

ROITHNER LASERTECHNIK


PRICE LIST 6/2003

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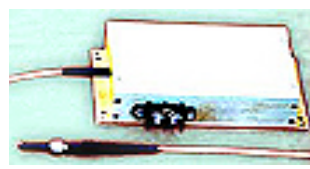
item		1-9 pcs.	1-9 pcs.	100 pcs.	1000 pcs.
01 LASER DIODES DIVERSE RED		\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	laser diodes, wavelengths 635 nm .. 1650 nm, 5.6 mm, 9 mm, TO-3 packages, fibercoupled devices available, wavelength selection on request				
SLD63518240, 635 nm, 5 mW, 40 °C, 5.6 mm, sm, SAMSUNG		5,60	5,94	5,40	4,75
SLD63518250, 635 nm, 5 mW, 50 °C, 5.6 mm, sm, SAMSUNG		6,80	7,21	6,60	5,80
SLD63518260, 635 nm, 5 mW, 60 °C, 5.6 mm, sm, SAMSUNG		8,00	8,48	7,80	6,85
SLD63518262, 635 nm, 5 mW, 60 °C, 5.6 mm, sm, SAMSUNG					
SLD63518350, 635 nm, 10 mW, 50 °C, 5.6 mm, sm, SAMSUNG					
SLD65018250, 650 nm, 5 mW, 50 °C, 5.6 mm, sm, SAMSUNG		2,50	2,65	2,00	1,80
SLD65018250S, 650 nm, 5 mW, 50 °C, 5.6 mm, sm, w/o window		1,95	2,07		
SLD65018260, 650 nm, 5 mW, 60 °C, 5.6 mm, sm, SAMSUNG		4,60	4,88	4,50	3,85
SLD65018261, 650 nm, 5 mW, 70 °C, 5.6 mm, sm, SAMSUNG					
SLD65018271, 650 nm, 5 mW, 70 °C, 5.6 mm, sm, SAMSUNG					
SLD65018271M, 650 nm, 5 mW, 70 °C, 5.6 mm, mm, SAMSUNG		4,50	4,77		
SLD65018360, 650 nm, 7 mW, 60 °C, 5.6 mm, sm, SAMSUNG		7,00	7,42	5,60	4,90
SLD65018371, 650 nm, 7 mW, 70 °C, 5.6 mm, mm, SAMSUNG		4,60	4,88	4,50	3,85
SLD67018250, 670 nm, 5 mW, 50 °C, 5.6 mm, sm, SAMSUNG		3,00	3,18	2,40	2,10
SLD67018260, 670 nm, 5 mW, 60 °C, 5.6 mm, sm, SAMSUNG		3,50	3,71	2,80	2,45
SLD68518460, 685 nm, 35 mW, 60 °C, 5.6 mm, sm, SAMSUNG		49,00	51,94	49,00	42,00
SLD76018371, 760 nm, 7 mW, 70 °C, 5.6 mm, sm, SAMSUNG					
SLD78018261, 780 nm, 5 mW, 60 °C, 5.6 mm, sm, SAMSUNG		1,75	1,86	1,45	1,22
SLD78018261F, 780 nm, 5 mW, 70 °C, 5.6 mm, sm, SAMSUNG					
SLD78018261S, 780 nm, 5 mW, 60 °C, 5.6 mm, sm, w/o window					
SLD78018262, 780 nm, 5 mW, 60 °C, 5.6 mm, sm, SAMSUNG					
SLD78018361, 785 nm, 7 mW, 70 °C, 5.6 mm, sm, SAMSUNG		3,00	3,18	2,40	2,10
SLD78018271, 785 nm, 5 mW, 70 °C, 5.6 mm, sm, SAMSUNG					
SLD78018371, 785nm, 7 mW, 70 °C, 5.6 mm, sm, SAMSUNG		2,50	2,65		
01 LASER DIODES DIVERSE RED		\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
RLT6303MG, 635 nm, 3 mW, sm, 5.6 mm		5,62	5,95	5,00	4,00
RLT6303G, 635 nm, 3 mW, sm, 9 mm		6,07	6,43	5,50	4,50
S6305MG, 635 nm, 5 mW, sm, 5.6 mm		13,03	13,82	11,00	9,00
new QL63D5SA, 635 nm, 5 mW, sm, 50 °C, 5.6 mm		6,80	7,21	6,60	5,80
new QL63D4SA, 635 nm, 5 mW, sm, 40 °C, 5.6 mm		5,60	5,94	5,40	4,75
RLT6305MG, 635 nm, 5 mW, sm, 5.6 mm		14,38	15,24	11,60	9,40
RLT6305MGX, 635 nm, 5 mW, sm, 5.6 mm		17,98	19,06	14,00	7,20
RLT6305G, 635 nm, 5 mW, sm, 9 mm		13,93	14,77	12,00	11,50
RLT6305GLC, 635 nm, 5 mW, sm, 9 mm, low cost		13,93	14,77	12,00	11,50
S6310MG, 635 nm, 10 mW, sm, 5.6 mm		27,00	28,62	23,00	22,00
RLT6310G, 635 nm, 10 mW, sm, 9 mm		56,18	59,55	40,00	27,00
new LD-310, 635 nm, 10 mW, sm, 9 mm		31,00	32,86	28,00	25,00
RLT6315G, 635 nm, 15 mW, sm, 9 mm		67,41	71,46	50,00	36,00
new RLT63100G, 630 nm, 100 mW, mm, 9 mm		490,00	519,40	400,00	325,00
new RLT63100GOP, 630 nm, 100 mW, mm, 9 mm, without photodiode		435,00	461,10	380,00	310,00
RLT6403G, 645 nm, 3 mW, sm, 9 mm		17,08	18,10		
RLT6405MG, 645 nm, 5 mW, sm, 5.6 mm		21,57	22,87		
RLT6405G, 645 nm, 5 mW, sm, 9 mm		23,37	24,77		
RLT6410G, 645 nm, 10 mW, sm, 9 mm		30,56	32,39		
RLT6415G, 640 nm, 15 mW, sm, 9 mm		125,84	133,39		
SDL-7511-G1, 640 nm, 30 mW, sm, 9 mm		250,00	265,00		
new LD-505A, 650 nm, 5 mW, sm, 5.6 mm, low cost		1,80	1,91	1,60	1,50





	S6505MG, 650 nm, 5 mW, sm, 5.6 mm	3,37	3,57	3,00	2,50
new	S6505MG-DVD, 650 nm, 5 mW, sm, 5.6 mm, DVD	4,49	4,76	3,00	2,50
	RLT6505MG, 650 nm, 5 mW, sm, 5.6 mm	4,45	4,72	3,45	3,20
new	QLS65D5SA, 650 nm, 5 mW, sm, 50 °C, 5.6 mm	2,22	2,35	2,00	1,85
new	QLS65D6SA, 650 nm, 5 mW, sm, 60 °C, 5.6 mm	3,37	3,57	3,00	2,50
	RLT6505MGX, 650 nm, 5 mW, sm, 5.6 mm	11,24	11,91	6,00	2,50
	RLT6505MGXL, 650 nm, 5 mW, sm, low current	13,48	14,29		
	RLT6505MDVD, 650 nm, 5 mW, 70 °C, sm, 5.6 mm, DVD	21,00	22,26	14,50	10,50
new	QL65E7SB, 650 nm, 7 mW, 70 °C, sm, 5.6 mm	4,60	4,88	4,20	3,85
	RLT6505G, 650 nm, 5 mW, sm, 9 mm	5,84	6,19	5,40	4,70
	RLT6507MGX, 650 nm, 7 mW, sm, 5.6 mm	21,57	22,87		
new	LD-510A, 650 nm, 10 mW, sm, 5.6 mm	3,70	3,92	3,50	3,24
	S6510MG, 650 nm, 10 mW, sm, 5.6 mm	9,00	9,54	9,00	6,00
new	QL65F6SA, 650 nm, 10 mW, sm, 60 °C, 5.6 mm	10,26	10,88	8,55	6,32
	ELD65N10T, 650 nm, 10 mW, sm, 5.6 mm	12,00	12,72	11,00	10,00
	RLT6510G, 650 nm, 10 mW, sm, 9 mm	11,24	11,91	9,50	8,70
	S6515MG, 650 nm, 15 mW, sm, 5.6 mm	19,77	20,96	19,00	18,00
	S6520MG, 650 nm, 20 mW, sm, 5.6 mm	39,55	41,92	37,60	35,00
	RLT6520MG, 650 nm, 20 mW, sm, 5.6 mm	42,70	45,26		
	RLT6520G, 650 nm, 20 mW, sm, 9 mm	60,00	63,60	55,00	48,30
	RLT6530G, 655 nm, 30 mW, sm, 9 mm	132,50	140,45	120,00	116,00
	RLT6550G, 655 nm, 50 mW, mm, 9 mm	180,00	190,80	110,00	102,00
	RLT6550GLI, 655 nm, 50 mW, mm, 9 mm	240,00	254,40	140,00	126,00
	RLT6605G, 660 nm, 5 mW, sm, 9 mm	10,00	10,60	6,00	5,40
	RLT6610G, 660 nm, 10 mW, sm, 9 mm	20,22	21,44	12,00	10,00
01	LASER DIODES DIVERSE RED & INFRARED	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	RLT6615G, 660 nm, 15 mW, sm, 9 mm	39,50	41,87	36,50	32,00
	RLT6620G, 660 nm, 20 mW, sm, 9 mm	55,20	58,51	48,30	41,40
	RLT6630MG, 660 nm, 30 mW, sm, 5.6 mm	56,40	59,78	49,40	45,70
	RLT6630G, 660 nm, 30 mW, sm, 9 mm	66,00	66,00		
	SDL-DFB, 661nm, 30 mW, sm w/ optic	988,73	1.048,06		
	RLT6650MG, 660 nm, 50 mW, sm, w/o PD, 5.6 mm	71,00	75,26	62,00	48,00
	RLT6650G, 660 nm, 50 mW, sm, 9 mm	180,00	190,80	110,00	102,00
	RLT6650GLI, 665 nm, 50 mW, mm, 9 mm	210,00	222,60	140,00	126,00
new	RLT6660MG, 660 m, 60 mW, sm, 5.6 mm w/o photodiode	61,00	64,66	35,00	28,00
new	RLT66200G, 660 nm, 200 mW, 100 µm, mm, 9 mm	297,00	314,82		
new	RLT66200GOP, 660 nm, 200 mW, 100 µm, mm, 9 mm, w/o photodiode	267,00	283,02		
	RLT66300G, 660 nm, 300 mW, 100 µm, mm, 9 mm	355,04	376,35		
	RLT6705MG, 670 nm, 5 mW, sm, 5.6 mm	7,00	7,42	6,30	3,00
	RLT6705G, 670 nm, 5 mW, sm, 9 mm	12,13	12,86	12,00	10,64
	RLT6710MG, 670 nm, 10 mW, sm, 5.6 mm	18,00	19,08	12,00	8,00
	RLT6715MG, 670 nm, 15 mW, sm, 5.6 mm	21,00	22,26	14,00	10,00
	RLT6720MG, 670 nm, 20 mW, sm, 5.6 mm	26,00	27,56	16,00	11,00
	RLT6730GMM, 670 nm, 30 mW, mm, 9 mm	130,33	138,15	114,00	97,50
	RLT6750G, 670 nm, 50 mW, mm, 9 mm	220,00	233,20		
	RLT6750G-2, 665 nm, 50 mW, mm, 9 mm	180,00	190,80	110,00	102,00
	RLT67100G, 670 nm, 100 mW, mm, 9 mm	405,00	429,30	375,00	
	RLT6815MG, 680 nm, 15 mW, sm, 5.6 mm	35,95	38,11		
	RLT6830MG, 685 nm, 30 mW, sm, 5.6 mm	34,80	36,89		
new	QL68I6SA, 685 nm, 30 mW, 60 °C, sm, 5.6 mm	50,00	53,00		32,40
	RLT6830G, 685 nm, 30 mW, sm, 9 mm	41,35	43,83		
	RLT6850G, 685 nm, 50 mW, sm, 9 mm	50,28	53,30	44,00	
	RLT6860MG, 685 nm, 50 mW, sm, 5.6 mm, w/o PD	39,10	41,45		
	LTO31MFO (Sharp), 743 nm (+/- 2 nm), 10 mW, sm, F- mount package	128,00	135,68		
	LTO31MFO (Sharp), 754 nm, 10 mW, sm, F- mount package	128,00	135,68		
	LTO31MDO (Sharp), 746..747 nm, 10 mW, sm, 9 mm package	128,00	135,68		
	RLT7603G, 760 nm, 3 mW, sm, 9 mm	67,41	71,46		
	RLT7605MG, 760 nm, 5 mW, sm, 5.6 mm	86,29	91,47	51,44	26,00
	RLT7605G, 760 nm, 5 mW, sm, 9 mm	92,13	97,66		
	RLT7610MG, 760+/-5 nm, 10 mW, sm, 5.6 mm	112,36	119,10	66,00	35,00
	RLT7805MG, 785 nm, 5 mW, sm, 5.6 mm	14,38	15,24		

	RLT7805MGS, 785 nm, 5 mW, sm, 5.6 mm	9,10	9,65	8,41	6,83
	RLT7810G, 780 nm, 10 mW, sm, 9 mm	20,67	21,91	16,85	14,57
new	S7810MG, 780 nm, 10 mW, sm, 5.6 mm	12,20	12,93	10,20	7,14
new	S7810G, 780 nm, 10 mW, sm, 9 mm	44,04	46,69		
	LTO21MCO (Sharp), 785 nm, 15 mW, sm, 9 mm	28,00	29,68		
	LASER DIODES DIVERSE INFRARED	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	RLT7820G, 780 nm, 20 mW, sm, 9 mm	50,34	53,36	45,95	40,24
	RLT7825G, 780 nm, 25 mW, sm, 9 mm	75,50	80,03		
	RLT7830MG, 785 nm, 30 mW, sm, 5.6 mm	27,56	29,21	24,20	19,60
	LTO24PD (Sharp), 785 nm, 30 mW, sm, 9 mm	32,00	33,92		
	RLT7830G, 785 nm, 30 mW, sm, 9 mm	24,27	25,73		
	RLT7830GS, 780 nm, 30 mW, sm, 9 mm	112,00	118,72	106,27	91,00
	LTO25PD (Sharp), 785 nm, 40 mW, sm, 9 mm	42,00	44,52		
	RLT7850G, 785 nm, 50 mW, sm, 9 mm	45,84	48,59		
	RLT7850MG, 785 nm, 50 mW, sm, 5.6 mm	45,84	48,59		
	RLT7855MG, 785 nm, 55 mW, sm, 5.6 mm	58,43	61,93		
	RLT7870MG, 785 nm, 70 mW, sm, 5.6 mm, w/o photodiode	72,81	77,18	28,00	
new	RLT7890MG, 785 nm, 90 mW, sm, 5.6 mm, w/o photodiode	75,00	79,50	35,00	31,00
	RLT78100G, 780 nm, 100 mW, sm, 9 mm	462,50	490,25	405,00	
	RLT78100GLI, 785 nm, 100 mW, sm, 9 mm	520,00	551,20		
new	RLT78150GLI, 785 nm, 150 mW, sm, 9 mm	780,00	826,80	500,00	
	RLT78250G, 780 nm, 250 mW, mm, 9 mm	335,00	355,10	296,00	259,20
	RLT78500G, 780 nm, 500 mW, mm, 9 mm	330,00	349,80		
new	RLT781000GOP, 780 nm, 1 W, mm, 9 mm, without photodiode	370,00	392,20		
	RLT80010MG, 800 nm, 10 mW, sm, 5.6 mm	39,55	41,92		
	RLT800500G, 800 nm, 500 mW, mm, 9 mm	220,00	233,20		
	RLT80805MG, 808 nm, 5 mW, sm, 5.6 mm	37,30	39,54	22,00	10,38
	RLT80805MGS, 808 nm, 5 mW, sm, 5.6 mm	11,69	12,39	9,52	7,70
	RLT80810MG, 808 nm, 10 mW, sm, 5.6 mm	47,64	50,50		
	RLT80810GS, 808 nm, 10 mW, sm, 9 mm	18,22	19,31	15,73	13,41
	RLT80820G, 808 nm, 20 mW, sm, 9 mm	59,00	62,54	51,00	44,70
	RLT80830G, 808 nm, 30 mW, sm, 9 mm	122,60	129,96	116,00	107,33
	RLT80850G, 808 nm, 50 mW, sm, 9 mm	180,00	190,80	166,50	145,80
	RLT808100GM, 808 nm, 100 mW, mm, 9 mm	146,06	154,83	120,00	97,20
	RLT808100GS, 808 nm, 100 mW, sm, 9 mm	420,00	445,20	405,00	
new	LDND-80H2, 808 nm, 150 mW, mm, 5.6 mm	35,00	37,10	32,00	26,00
	RLT808150GOC, 808 nm, 150 mW, mm, 9 mm	67,41	71,46		
	LD-8200, 808 nm, 200 mW, mm, 9 mm	66,00	69,96	60,00	48,00
	SLD302V, SONY, 808 nm, 200 mW, mm, 9 mm	79,00	83,74	52,00	42,00
	S808250G, 808 nm, 250 mW, mm, 50 µm, 9 mm	102,00	108,12	99,00	89,60
	SLD322V, SONY, 808 nm, 500 mW, mm, 9 mm	116,00	122,96	94,00	72,90
	RLT808500G, 808 nm, 500 mW, mm, 9 mm	133,93	141,96	121,00	98,11
	RLT8081000G, 808 nm, 1 W, mm, 100 µm, 9 mm	224,71	238,19		
	SLD323V, SONY, 809 nm, 1 W, mm, 100 µm, 9 mm	244,00	258,64	212,75	178,20
	RLT8230G, 820 nm, 30 mW, sm, 9 mm	107,86	114,33		
new	RLT82100G, 820 nm +/-5 nm, 100 mW, sm, 9 mm (SDL-7032-202)	180,00	190,80		
new	ELD83NPT5, 830 nm +/-10 nm, 5 mW, sm, 5.6 mm	31,00	32,86	25,00	13,00
	RLT8305MG, 830 nm, 5 mW, sm, 5.6 mm	32,36	34,30	26,43	12,45
	RLT8320MG, 830 nm, 20 mW, sm, 5.6 mm	67,00	71,02	34,37	20,19
	RLT8330G, 830 nm, 30 mW, sm, 9 mm (HITACHI HL8318G)	69,00	73,14		
	RLT8340MG, 830 nm, 40 mW, sm, 5.6 mm	72,00	76,32	37,00	23,00
01	LASER DIODES DIVERSE INFRARED	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	RLT8340G, 830 nm, 40 mW, sm, 9 mm	158,00	167,48		
	LT015MD (SHARP), 830 nm, 40 mW, sm, 9 mm	122,00	129,32		
	RLT8340GOP, 830 nm, 40 mW, sm, 9 mm, without photodiode	148,00	156,88		
	RLT8350G, 830 nm, 50 mW, sm, 9 mm	166,50	176,49	145,80	
new	ELD83NPT50, 830 nm +/-10 nm, 50 mW, sm, 5.6 mm	66,00	69,96	59,00	41,00
new	RLT8370GOP, 830 nm, 75 mW, sm, 9 mm, without photodiode	285,00	302,10		
new	RLT83100G, 830 nm +/-5 nm, 100 mW, sm, 9 mm (SDL-7032-202)	180,00	190,80		
	RLT83200G, 830 nm, 200 mW, mm, 9 mm	150,00	159,00	131,25	
new	ELD83NPT300, 830 nm +/-10 nm, 300 mW, mm, 9 mm	140,00	148,40	90,00	55,00


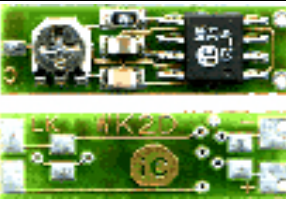

	GBL831000G, 830 nm, 1 W, mm, 9 mm	190,00	201,40		
	RLT831000G, 830 nm, 1 W, mm, 9 mm	295,00	312,70		
	RLT8405MGS, 840 nm, 5 mW, sm, 5.6 mm	10,56	11,19	9,76	8,55
	RLT8405MG, 840 nm, 5 mW, sm, 5.6 mm	12,13	12,86		
	RLT8410G, 840 nm, 10 mW, sm, 9 mm	17,98	19,06	14,95	12,74
	RLT8410MG, 840 nm, 10 mW, sm, 5.6 mm	42,00	44,52	39,60	22,00
	RLT8420G, 840 nm, 20 mW, sm, 9 mm	63,80	67,63	56,20	49,20
	RLT8430G, 840 nm, 30 mW, sm, 9 mm	138,00	146,28	124,60	109,10
	RLT8505MG, 850 nm, 5 mW, sm, 5.6 mm	28,00	29,68	27,00	18,90
new	ELD85NPT5, 850 nm +/-10 nm, 5 mW, sm, 5.6 mm				
new	MIL8510MG, 850 nm, 10 mW, sm, 60 °C, 5.6 mm	46,00	48,76	36,00	20,00
	RLT8510MG, 850 nm, 10 mW, sm, 5.6 mm	44,04	46,69	37,50	22,43
	RLT8520MG, 850 nm, 20 mW, sm, 5.6 mm	48,00	50,88	42,30	32,00
	RLT8550G, 850 nm, 50 mW, sm, 9 mm	166,50	176,49	145,80	
new	ELD85NPT50, 850 nm +/-10 nm, 50 mW, sm, 5.6 mm	66,00	69,96	59,00	41,00
	RLT85100G, 850 nm, 100 mW, sm, 9 mm	437,50	463,75	405,00	
	RLT85200G, 850 nm, 250 mW, mm, 9 mm	131,25	139,13	121,50	
	RLT85250G, 850 nm, 250 mW, mm, 9 mm	148,75	157,68	137,70	
new	ELD85NPT300, 850 nm +/-10 nm, 300 mW, mm, 9 mm	140,00	148,40	90,00	55,00
	RLT85500G, 850 nm, 500 mW, mm, 9 mm	210,00	222,60	157,50	
	RLT851000G, 850 nm, 1 W, mm	315,00	333,90	291,00	
	RLT8710MG, 870 nm, 10 mW, sm, 5.6 mm	54,00	57,24	45,72	31,00
	RLT8750G, 875 nm, 50 mW, sm, 9 mm	171,00	181,26	158,00	
	RLT8810MG, 880 nm, 10 mW, sm, 5.6 mm	54,00	57,24	45,72	31,00
new	RLT8850G, 880 nm, 50 mW, sm, 9 mm	205,80	218,15	166,00	101,50
new	RLT88150G, 880 nm, 150 mW, sm, 9 mm	252,00	267,12	198,00	140,00
	RLT9005MG, 900 nm, 5 mW, sm, 5.6 mm	37,75	40,02	32,40	
	RLT904-05MG, 904 nm, 5 mW, sm, 5.6 mm	15,70	16,64	11,60	10,73
	RLT904-10MG, 904 nm, 10 mW, sm, 5.6 mm	31,00	32,86	23,20	21,00
	RLT904-10G, 904 nm, 10 mW, sm, 9 mm	29,21	30,97	22,80	18,22
	RLT904-20G, 904 nm, 20 mW, sm, 9 mm	68,00	72,08	62,00	51,00
	RLT904-30G, 904 nm, 30 mW, sm, 9 mm	159,55	169,12	136,00	111,80
	RLT9050G, 905 nm, 50 mW, sm, 9 mm	206,73	219,14	157,50	
new	RLT915-50G, 915 nm, 50 mW, sm, 9 mm	205,80	218,15	166,00	101,50
	RLT9150GLI, 915 nm, 50 mW, sm, 9 mm	350,00	371,00		
	RLT91500G, 915 nm, 500 mW, mm, 9 mm	210,00	222,60		
	RLT91500GOP, 913 nm, 500 mW, mm, 9 mm, without photodiode	176,00	186,56		
new	RLT9250G, 920 nm, 50 mW, sm, 9 mm	353,00	374,18		
new	RLT915-150G, 915 nm, 150 mW, sm, 9 mm	252,00	267,12	198,00	140,00
	RLT92100G, 920 nm, 100 mW, sm, 9 mm	696,61	738,40		
	RLT9450MG, 940 nm, 50 mW, sm, 5.6 mm	70,00	74,20	60,00	40,00
01	LASER DIODES DIVERSE INFRARED	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	RLT9460MG, 940 nm, 60 mW, mm, 5.6 mm	60,00	63,60	50,00	34,00
	RLT9510MG, 950+/-5 nm, 10 mW, sm, 5.6 mm	66,00	69,96	38,00	
	RLT9520MG, 950+/-5 nm, 20 mW, sm, 5.6 mm	94,38	100,04	52,00	32,00
	RLT9750MG, 975 nm, 50 mW, sm, 5.6 mm	89,88	95,28		
	RLT9760MG, 975 nm, 60 mW, mm, 5.6 mm	71,91	76,22		
	RLT9805MG, 980 nm, 5 mW, sm, 5.6 mm	17,98	19,06	13,26	10,74
	RLT9810MG, 980 nm, 10 mW, sm, 5.6 mm	80,00	84,80	44,00	20,90
	RLT9810MGS, 980 nm, 10 mW, sm, 5.6 mm	31,00	32,86	20,70	16,76
	RLT9810G, 980 nm, 10 mW, sm, 9 mm	110,00	116,60	96,25	
	RLT9810GS, 980 nm, 10 mW, sm, 9 mm	35,00	37,10	23,00	
	RLT9820GS, 980 nm, 20 mW, sm, 9 mm	75,00	79,50	67,41	
	RLT9820G, 980 nm, 20 mW, mm, 9 mm	95,00	100,70	62,00	
	RLT9820MG, 980 nm, 20 mW, sm, 5.6 mm	101,00	107,06	60,00	38,00
	RLT9830MG, 980 nm, 30 mW, sm, 5.6 mm	123,00	130,38	64,00	37,18
	RLT9830G, 980 nm, 30 mW, sm, 9 mm	162,00	171,72	127,00	
	RLT9850MG, 980 nm, 50 mW, sm, 5.6 mm	90,00	95,40	60,00	40,00
new	S9850MG, 980 nm, 50 mW, sm, 5.6 mm	12,00	12,00	7,00	4,55
new	ELD98NPT50, 980 nm +/-10 nm, 50 mW, sm, 5.6 mm	66,00	69,96	59,00	41,00
new	ELD98NH1T, 980 nm +/-10 nm, 50 mW, sm, 5.6 mm, without photodiode	9,00	9,54	7,50	7,00


	RLT9850G, 980 nm, 50 mW, sm, 9 mm	190,00	201,40	160,00	
	RLT9880G, 980 nm, 80 mW, sm, 9 mm	232,00	245,92		
	RLT98100MG, 980 nm, 100 mW, mm, 5.6 mm	180,00	190,80	99,00	56,00
	RLT98100G, 980 nm, 100 mW, sm, 9 mm	315,00	333,90	290,00	
new	ELD98NPT300, 980 nm +/-10 nm, 300 mW, mm, 9 mm	140,00	148,40	90,00	55,00
	GBL98500G, 980 nm, 500 mW, mm, 9 mm	160,00	169,60		
	RLT98500G, 980 nm, 500 mW, mm, 9 mm	228,00	241,68	210,00	
new	RLT98500GOP, 980 nm, 500 mW, mm, 9 mm, without photodiode	99,00	104,94		
	GBL981000G, 980 nm, 1 W, mm, 9 mm	232,00	245,92		
new	RLT981000G, 980 nm, 1 W, mm, 9 mm	165,00	174,90		
new	RLT981000GOP, 980 nm, 1 W, mm, 9 mm, without photodiode	125,00	132,50		
	RLT980-1000G, 980 nm, 1 W, mm	278,64	295,36		
	RLT1020-500G, 1020 nm, 500 mW, mm, 9 mm	228,00	241,68	210,00	
	RLT1020-1000G, 1020 nm, 1 W, mm, 11 mm	390,00	413,40		
	RLT1060-10MG, 1060 +/-10 nm, 10 mW, sm, 5.6 mm	112,36	119,10	68,00	41,00
	RLT1060-50GLI, 1060 nm, 50 mW, sm, 9 mm	460,00	487,60		
new	RLT1260-500HHL, 1260 nm +/- 20 nm, 500 mW, mm, HHL package	1.496,00	1.585,76		
new	RLT1260-800HHL, 1260 nm +/- 20 nm, 800 mW, mm, HHL package				
	ML701B1R-E21A, 1310 nm, 3 mW, sm, 5.6 mm	17,08	18,10		
	ML720A1S-E22E, 1310 nm, 4 mW, sm, 5.6 mm	20,67	21,91		
	RLT1300-5MG, 1310 nm, 5 mW, sm, 5.6 mm	87,64	92,90		
new	S1300-5MG-BL, 1310 nm, 5 mW, TO-56, ball lens (1.25 Gbps)	30,00	31,80	26,60	22,05
new	S1300-5MG-FW, 1310 nm, 5 mW, TO-56, flat window (1.25 Gbps)	28,00	29,68	24,70	20,30
	RLT1300-5G, 1300 nm, 5 mW, sm, 9 mm	44,04	46,69		
	RLT1300-10G, 1300 nm, 10 mW, sm, 9 mm	73,70	78,12	55,10	44,10
01	LASER DIODES DIVERSE INFRARED	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	RLT1300-20G, 1300 nm, 20 mW, sm, 9 mm	110,80	117,45	89,60	71,60
	RLT1300-30G, 1300 nm, 30 mW, sm, 9 mm	131,40	139,28	106,10	84,90
	RLT1300-40G, 1300 nm, 40 mW, sm, 9 mm	306,00	324,36	250,00	180,00
new	RLT1300-50G, 1300 nm, 50 mW, sm, 9 mm	369,00	391,14	269,00	196,00
	RLT1450-3G, 1450 nm, 3 mW, sm, 9 mm	224,71	238,19		
	RLT1460-5MG, 1460 nm, 5 mW, sm, 5.6 mm	242,69	257,25	170,00	107,70
new	RLT1480-10G, 1480 nm +/- 10 nm, 10 mW, sm, 9 mm	228,00	241,68	194,00	
new	RLT1480-15G, 1480 nm +/- 10 nm, 15 mW, sm, 9 mm	370,00	392,20	316,00	
new	RLT1480-20G, 1480 nm +/- 10 nm, 20 mW, sm, 9 mm	399,00	422,94	340,00	
new	RLT1480-30G, 1480 nm +/- 10 nm, 30 mW, sm, 9 mm	540,00	572,40	462,00	
new	RLT1480-40G, 1480 nm +/- 10 nm, 40 mW, sm, 9 mm	855,00	906,30	729,00	
new	RLT1480-50G, 1480 nm +/- 10 nm, 50 mW, sm, 9 mm	1.140,00	1.208,40	972,00	
new	RLT1480-60G, 1480 nm +/- 10 nm, 60 mW, sm, 9 mm	1.425,00	1.510,50	1.215,00	
	RLT1550-5G, 1550 nm, 5 mW, sm, 9 mm	88,09	93,37	77,30	61,88
	RLT1550-5MG, 1550 nm, 5 mW, sm, 5.6 mm	137,52	145,78		
	RLT1550-10G, 1550 nm, 10 mW, sm, 9 mm	144,00	152,64	116,70	92,30
	RLT1550-15G, 1550 nm, 15 mW, sm, 9 mm	225,00	238,50	182,30	145,80
	RLT1550-20G, 1550 nm, 20 mW, sm, 9 mm	330,00	349,80	243,00	
	RLT1550-30G, 1550 nm, 30 mW, sm, 9 mm	385,00	408,10	283,50	
	RLT1550-40G, 1550 nm, 40 mW, sm, 9 mm	416,00	440,96	307,00	
new	RLT1550-250HHL, 1550 nm +/- 30 nm, 250 mW, mm, HHL package	1.355,00	1.436,30		
	RLT1550-500HHL, 1550 nm +/- 30 nm, 500 mW, mm, HHL package	1.438,16	1.524,45		
	RLT1650-5G, 1650 nm, 5 mW, 9 mm, sm, 9 mm	683,12	724,11		
	RLT1670-5G, 1670 nm, 5 mW, 9 mm, sm, 9 mm	683,12	724,11		
01	POLAROID LASER DIODES INFRARED	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	POL808500G, 808 nm , 500 mW, mm, 9 mm w/o PD	100,00	106,00		
	POL8081000G, 808 nm , 1 W, mm, 9 mm w/o PD	180,00	190,80		
	POL-4200, 830 nm +10/-0 nm, 1 W, mm	130,00	137,80		
	FIBERCOUPLED FP LASER DIODES RED & INFRARED	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 fiber coupled laser diodes, wavelengths 650 nm, 1310 nm, 1550 nm, single mode fiber with FC connector, selected wavelengths on request				


	LFO-65-ip, 650 nm , 1 mW, sm, 9/125 fiber, FC-connector	270,00	286,20		
	ELD65NF2, 650 nm , 2 mW, sm, 9/125 fiber, FC-connector	166,00	175,96	128,00	
	LFO-14-ip, 1310 nm , 1 mW, sm, 9/125, FC-connector	210,00	222,60	157,50	128,80
	LFO-14-i, 1310 nm , 1 mW, sm, 9/125, FC-connector	290,00	307,40	217,50	
new	FP-1310-CX-1.8-A, 1310 nm , 1.8 mW, -20..85°C, analog, no isolator	188,00	199,28	129,60	108,80
new	FP-1310-CX-2-2.5-A, 1310 nm , 2 mW, -20..85°C, sonet OC48, no isolator	198,00	209,88	136,00	111,00
	LFO-18-ip, 1550 nm , 0.8 mW, sm, 9/125, FC-conn	320,00	339,20	262,50	249,40
	LFO-18-i, 1550 nm , 0.8mW, sm, 9/125, FC-conn	420,00	445,20	260,00	
	LFO-18-2-ip, 1550 nm , 2 mW, sm, 9/125, FC-conn	370,00	392,20		
	LFO-18-2-i, 1550 nm , 2 mW, sm, 9/125, FC-conn	650,00	689,00		
	LFO-24-ip, 1310 nm , 100 mW pulse, sm, FP, 9/125 fiber, FC	450,00	477,00	342,00	
	LFO-27-ip, 1310 nm , 120 m W pulse, 50/125 or 62.5/125 fiber, FC	450,00	477,00	342,00	
	FU-17SLD-F3M1, 1310 nm , 0.5mW, FC-receptacle	134,00	142,04		
04	DFB LASERDIODES FOR FIBER COMMUNICATION	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
new	DFB-1310-CX-2-A, 1310nm, 2 mW, analog, -20..85°C, with isolator				
new	DFB-1310-CX-2-2.5-A, 1310nm, 2mW, s. OC48, -20..85°C, w/o isolator				
new	DFB-1310-CX-2-3.2-A, 1310nm, 10G EtherNet, 0..85°C, w/o isolator				
04	FIBERCOUPLED InGaAs PIN PHOTODIODES	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	PD-1375-ip, InGaAs PIN, 1100-1600 nm, sm, FC	126,00	133,56		
01	EDFA PUMP LASER DIODES	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 high power fiber coupled laser diodes, 980 nm or 1480 nm for EDFA pump applications butterfly package with thermo cooler, thermistor and photodiode				
	PIRELLI 790326401, 980 nm , 100 mW, PD, TC, TH, fiber-CT	275,00	291,50	180,00	100,00
	PIRELLI 790301601, 980 nm , 110 mW, PD, TC, TH, fiber-CT	285,00	302,10	190,00	110,00
	PIRELLI 790301901, 980 nm , 140 mW, PD, TC, TH, fiber-CT	355,00	376,30	220,00	150,00
	SDL SDLO-1564-100, 980 nm , 100 mW, PD, TC, TH, pigtail	265,00	280,90	170,00	100,00
	SDL SDLO-1564-110, 980 nm , 110 mW, PD, TC, TH, pigtail	275,00	291,50	170,00	110,00
	SDL SDLO-2564-110, 980 nm , 110 mW, PD, TC, TH, pigtail	275,00	291,50	180,00	110,00
	SDL SDLO-2564-125, 980 nm , 125 mW, PD, TC, TH, pigtail	295,00	312,70	190,00	140,00
	Lasertron QLM9S470-211, 980 nm , 90 mW, PD, TC, TH, pigtail	190,00	201,40	120,00	100,00
	MITSUBISHI FU-644SLD-1PRL5, 1480 nm , 10 mW, PD, TC, TH, pigtail	110,00	116,60	90,00	
01	HIGH POWER FIBER COUPLED INFRARED LASER DIODES	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 HTLxx.S series, high power laser diodes, 810 nm or 980 nm, power 0.6 W cw up to 5 W cw, fiber coupled				
	HTL81S-600, 810 nm , 0.6W, 50µm, NA 0.22, FC	880,00	932,80		
	HTL81S-750, 810 nm , 0.75 W, 100 µm, NA 0.22, FC	740,00	784,40		
	HTL81S-1, 810 nm , 1.5 W, 100 µm, NA 0.22, FC	1.450,00	1.537,00		
	HTL81S-5, 810 nm , 5 W, 400 µm, NA 0.22, FC	3.600,00	3.816,00		
	 HTLxxM series, high power laser diodes, 810 nm or 980 nm, power 5 W cw up to 25 W cw, fiber coupled				
	HTL81M-5S, 810 nm , 5 W, 400 µm, NA 0.12, FC	4.200,00	4.452,00		
	HTL81M-10, 810 nm , 10 W, 400 µm, NA 0.22, FC	7.100,00	7.526,00		
	HTL81M-15, 810 nm , 15 W, 650 µm, NA 0.22, FC	10.700,00	11.342,00		
	HTL81M-25, 810 nm , 25 W, 400 µm, NA 0.22, FC	16.800,00	17.808,00		
	HTL98S-750, 980 nm , 0.75 W, 100 µm, NA 0.22, FC	1.000,00	1.060,00		
	HTL98S-1.5, 980 nm , 1.5 W, 100 µm, NA 0.22, FC	1.400,00	1.484,00		
	HTL98M-12S, 980 nm , 12 W, 700 µm, NA 0.12, FC	11.200,00	11.872,00		
	HTL98M-14, 980 nm , 14 W, 700 µm, NA 0.22, FC	13.000,00	13.780,00		
	HTL98M-25, 980 nm , 25 W, 700 µm, NA 0.22, FC	17.800,00	18.868,00		



01	PULSED INFRARED LASER DIODES	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	RLT810-100G, 810 nm , 100 W-pulse	330,00	349,80		
	RLT810-100W, 810 nm , 100 W-pulse	300,00	318,00		
	RLT810-150W, 810 nm , 150 W-pulse	430,00	455,80		
new	PLD904-2-MG, 904 nm , 2 W-pulse, 40 x 1 μm^2 , 5.6 mm	98,00	103,88	85,00	73,50
new	PLD904-2-T, 904 nm , 2 W-pulse, 40 x 1 μm^2 , TO-18T	112,00	118,72	98,00	84,00
new	PLD904-4-T, 904 nm , 4 W-pulse, 75 x 1 μm^2 , TO-18T	156,00	165,36	136,50	117,00
new	PLD904-8-T, 904 nm , 8 W-pulse, 150 x 1 μm^2 , TO-18T	230,00	243,80	210,00	188,00
	RLT980-10W, 980 nm , 12 W-pulse	200,00	212,00		
01	MID-IR LASER DIODES	\$ (USD)	€ (EURO)	\$ / 3+	\$ / 10+
	 <p>MID-IR laser diode High Heat Load package (HHL)</p>				
new	LD-200-HHL, 2.0 μm , 1 mW cw, 20 mW pulsed, slm, HHL package	2850,00	2.878,50	2.625,00	2.250,00
new	LD-200p-HHL, 2.0 μm , 15 mW, pulsed mode, slm mode, HHL package	1710,00	1.727,10	1.575,00	1.350,00
new	LD-220p-HHL, 2.2 μm , 20 mW, pulsed mode, slm mode, HHL package	1710,00	1.727,10	1.575,00	1.350,00
new	LD-230p-HHL, 2.3 μm , 20 mW, pulsed mode, slm mode, HHL package	1710,00	1.727,10	1.575,00	1.350,00
new	LD-230-HHL, 2.3 μm , 1 mW cw, 20 mW pulsed, slm, HHL package	2850,00	2.878,50	2.625,00	2.250,00
new	LD-310m-DW, 3.1 μm , 0.8 mW cw, 16 mW, mm, dewar	3040,00	3.070,40	2.800,00	2.400,00
new	LD-310m-LA, 3.1 μm , 0.8 mW cw, 16 mW pulsed, mm, LA package	1900,00	1.919,00	1.750,00	1.500,00
	 <p>MID-IR laser diode LA package (LA)</p>				
new	LD-320-LA, 3.2 μm , 0.9 mW cw, 18 mW pulsed, slm, LA-package	1900,00	1.919,00	1.750,00	1.500,00
new	LD-320-DW, 3.2 μm , 0.8 mW cw, 16 mW pulsed, slm, dewar package	3040,00	3.070,40	2.800,00	2.400,00
new	LD-330-DW, 3.3 μm , 0.9 mW cw, 18 mW pulsed, slm, dewar package	3040,00	3.070,40	2.800,00	2.400,00
	 <p>MID-IR laser in dewar (DW)</p>				
new	LD-330-LA, 3.3 μm , 0.9 mW cw, 18 mW pulsed, slm, LA package	1900,00	1.919,00	1.750,00	1.500,00
new	LD-360-DW, 3.3 μm , 1.8 mW cw, 26 mW pulsed, slm, dewar package	3040,00	3.070,40	2.800,00	2.400,00
new	LD-360-LA, 3.6 μm , 1.5 mW cw, 20 mW pulsed, slm, LA package	1900,00	1.919,00	1.750,00	1.500,00
01	LASER DIODE CHIP DIES	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 <p>laser diode chip dies</p> <p>minimum order quantity = 100 pcs.</p>				
new	CHIP-635-P5, 635 nm , 5 mW, laser diode chip die, sm	5,00	5,30	5,00	3,33
new	CHIP-650-P5, 650 nm , 5 mW, laser diode chip die, sm	0,55	0,58	0,55	0,36
new	CHIP-650-P10, 650 nm , 10 mW, laser diode chip die, sm	3,80	4,03	3,80	2,60
new	CHIP-D650-P5, 650 nm , 5 mW, laser diode chip die for DVD use, sm	0,90	0,95	0,90	0,70
new	CHIP-980-P50, 980 nm , 50 mW, laser diode chip die, sm	3,50	3,71	3,50	2,60
new	CHIP-1310-P5, 1310 nm , FP, 5 mW, sm, 2.5 GHz	5,00	5,30	5,00	4,00
new	CHIP1550-5, 1550 nm , FP, 5 mW, sm	12,00	12,72	12,00	9,56
02	OPTICS FOR LASER DIODES - MOLDED PLASTIC	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+

	acrylic laser diode collimating lenses anti reflective coated (ARC) or uncoated				
	GS-7020AA, 7 x 3.3 mm, f = 8 mm, LD acrylic collimator	1,03	1,10	0,81	0,64
	GS-7020-2C, 7 x 3.3 mm, f = 8 mm, LD acrylic collimator, ARC	1,71	1,81	1,29	0,89
	GS-7020-H, M9 x 0.5, f = 8 mm, acrylic LD collimator	1,89	2,00	1,20	0,98
	GS-7021, 5 x 2.3 mm, f = 6 mm, LD acrylic collimator	1,30	1,38	0,99	0,75
	GS-7026, 6.3 x 2.4 mm, f = 18 mm, LD acrylic collimator	1,30	1,38	0,99	0,75
	GS-7026-2C, 6.3 x 2.4 mm, f = 18 mm, ARC, LD acrylic collimator	1,60	1,70	1,33	1,06
	GS-7027, 7 x 2.26 mm, f = 12 mm, LD acrylic collimator	1,30	1,38	0,99	0,75
	GS-7031-2C, 5 x 2,3 mm, f = 5 mm, ARC, LD acrylic collimator	1,30	1,38	0,77	0,72
new	CAY033/040, 4.0 x 3.0 mm, f = 3.35 mm, NA = 0.38, LD acrylic collimator	3,30	3,30	2,77	2,77
new	CAY046, 7.4 x 3.05 mm, f = 4.6 mm, NA = 0.40, LD acrylic collimator	3,30	3,30	2,77	2,77
new	CAX100, 6.28 x 2.44 mm, f = 10.0 mm, NA = 0.20, LD acrylic collimator	3,30	3,30	2,77	2,77
new	CSX122, 6.28 x 2.44 mm, f = 12.1 mm, NA = 0.12, LD acrylic collimator	3,30	3,30	2,77	2,77
new	CDW042/52, 5.2 x 2.7 mm, f = 4.2 mm, NA = 0.25, LD acrylic collimator	3,30	3,30	2,77	2,77
	LENS-04, 5 x 2.3 mm, f = 6 mm, LD acrylic collimator	4,49	4,76	4,10	
	LENS-05, M9 x 0.5 mm, f = 8 mm, acrylic LD collimator	6,74	7,15	5,80	
	LENS-05A, 7 x 2.8 mm, f = 8 mm, LD acrylic collimator	4,49	4,76	3,50	
	LENS-09, 7 x 2.8 mm, 3.5°-lineoptic, acrylic	4,49	4,76	3,90	
	LENS-10, 8 x 2 mm, 130°-lineoptik, acrylic	4,49	4,76	3,90	
	R7/F8, 7 x 3.2 mm, f = 8 mm, LD acrylic collimator, NA=0.28	0,45	0,48		
	LC3, 3 x 2.4 mm, f = 4.5 mm, PMMA, LD acrylic collimator	1,12	1,19	0,80	0,65
	LC5, 5 x 2.3 mm, f = 6.5 mm, PMMA, LD acrylic collimator	0,45	0,48	0,39	0,32
	LC7, 7 x 3.15 mm, f = 7.8 mm, PMMA, LD acrylic collimator	0,45	0,48	0,39	0,32
	LC12, 7 x 3.15 mm, f = 12.5 mm, PMMA, LD acrylic collimator	0,45	0,48	0,39	0,35
new	Cylinder Lens 4035, full angle 80°, PMMA, acrylic line generator	3,50	3,50	2,30	1,95
	LG6.8, 8 x 2 mm, 110°-lineoptik, acrylic	2,00	2,12	1,10	0,40
	LG8-75°, 8 x 2 mm, 75°-lineoptik, acrylic	2,50	2,65	1,30	0,48
02	OPTICS FOR LASER DIODES - GLASS	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	glass laser diode collimating lenses anti reflective coated				
	GS-8019A, M9 x 0.5, f = 8 mm, 3 lens glass, NA=0.3, ARC	10,00	10,60	7,50	6,00
	LENS-11, M9 x 0.5, f = 12 mm, 1 lens glass, NA=0.14, ARC	17,98	19,06	14,00	
	LENS-11A, 4.5 x 1.3 mm, f = 12 mm, 1 lens glass, NA=0.14, ARC	15,73	16,67	11,00	8,23
	LENS-14, M9 x 0.5, f = 6.8 mm, 3 lens glass, NA=0.3, ARC	15,73	16,67	12,00	
	LENS-14A, 6.3 x 7.4 mm, f = 6.8 mm, 3 lens glass, NA=0.3, ARC	13,48	14,29	10,00	
	LENS-20, M9 x 0.5, f = 8 mm, 3 lens glass, NA=0.3, ARC	15,00	15,90	10,00	5,80
	LENS-27, M9 x 0.5, f = 3.6 mm, 1 lens glass, NA=0.45, ARC	22,47	23,82	16,00	
	LENS-27A, 7 x 3.35 mm, f = 3.6 mm, 1 lens glass, NA=0.45, ARC	18,00	19,08	12,00	9,66
	GRIN-30-S, GRIN glass lens, plan/plan, 3 x 3.35 mm, f=4.8 mm, ARC	25,00	26,50	19,00	
	Cylinderlens, 5 x 8.5 mm, [DxL], glass	4,00	4,24	3,20	
	Cylinderlens, 12 x 5.5 mm, [DxL], glass	4,50	4,77	3,70	
	60° line generating optic, glass (for LT type laser modules)	14,00	14,84	12,00	10,00
	90° line generating optic, glass (for LT type laser modules)	14,00	14,84	12,00	10,00
	TC-3 telescope, 3x, 2 lenses, glass	26,97	28,58		
02	MOUNTING TUBES FOR OPTICS AND LASERDIODES	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	Laserdiode-Optic-Mountingtube, 10 x 18 mm [D x L], thread M9 x 0.5	13,48	14,29	11,00	6,40
	Laserdiode-Optic-Mountingtube, 11 x 18 mm [D x L], thread M9 x 0.5	13,48	14,29	11,00	6,40
	Laser Diode Socket 3-pin version	2,00	2,00	1,80	
02	DIFFRACTIVE PATTERN GENERATORS	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+




	<p>diffractive pattern generators made from ruled acrylic sheets, standard figures: line, circle, cross line</p> <p>special patterns available on request</p>				
	DPG11, circle , acrylic die, 7 x 1 mm	1,03	1,10	0,60	0,48
	DPG12, line , angle 6°, acrylic die, 7 x 1 mm	1,03	1,10	0,60	0,48
	DPG18, cross line , angle 8.8°, acrylic die, 7 x 1 mm	1,03	1,10	0,60	0,48
03	LASER DIODE DRIVER BOARDS AND ICs	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	diverse driver boards for laser diodes as ready to use printed circuit boards (PCB)				
	for N-type laserdiodes, common LD+ and PD-				
	iC-WK2D, 6.5 x 20 mm ² , PCB-board, N-type, CAC	8,99	9,53	6,20	5,00
	EU-21, 8.1 x 12.5 mm ² , APC, 3-10 VDC	8,99	9,53		
	EU-21V4, 12 x 11 mm ² , APC, 3-10 VDC	8,99	9,53		
	EU-37, 10.5 x 18 mm ² , APC, 4.5-6 VDC, slow start	9,00	9,54	6,80	6,30
	EU-38, 35 x 14 mm ² , constant current, max. 1.2 A	11,00	11,66	10,20	8,90
	EU-38-1, 35 x 14 mm ² , constant current, max. 1.2 A	11,00	11,66	10,20	8,90
	EU-42, 10.5 x 11.3 mm ² , APC, modulable up to 1 MHz	9,00	9,54	9,00	7,30
	RLT CAC, 26 x 53 mm ² , APC	26,97	28,58	20,00	18,00
	RLT CAC high power, 26 x 53 mm ²	35,95	38,11	23,00	20,00
	for M-type laserdiodes, common LD- and PD-				
	RLT type CCC, 26 x 53 mm ² , APC	26,97	28,58	20,00	18,00
	iC-WK1D, 6.5 x 20 mm ² , PCB-board, M-type, CAC	8,99	9,53	6,20	5,00
	for P-type laserdiodes, common LD- and PD+				
	RLT CCA, 26 x 53 mm ² , APC	26,97	28,58	20,00	18,00
	iC-WK1D, 6.5 x 20 mm ² , PCB-board, P-type, CCA	8,99	9,53	6,20	5,00
03	LASER DIODE DRIVER ICs	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	diverse drivers for laser diodes as integrated circuits				
	iC-VJ SO16N, driver IC for cw laserdiodes	3,82	4,05	3,82	3,45
	iC-VJZ SO16N, driver IC for cw laserdiodes	3,82	4,05	3,82	3,45
	iC-WJ SO8, driver IC for cw laserdiodes	3,46	3,67	3,46	3,18
	iC-WJZ SO8, driver IC for cw laserdiodes	3,46	3,67	3,46	3,18
	iC-WJB SO8, driver IC for cw laserdiodes, 2.7 VDC	3,69	3,91	3,69	3,32
	iC-WK SO8 (MSOP8), driver IC for any LD-polarity(!)	3,10	3,29	3,10	1,85
	iC-HK SO8 (MSOP8), laser diode switch 155 MHz, Ip up to 700 mA	2,95	3,13	2,53	1,85
	Demo Board iC-VJ	50,00	50,00	46,00	
	Demo Board iC-WJ	50,00	50,00	46,00	
01	VCSELs 850 nm	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	chips MOQ 10 pcs.:				
	TSD-7A10, 785 nm, 3 mW, chip-dice, 8°	11,00	11,66		
	TSD-8A10, 850 nm, 3 mW, chip-dice, 8°, gen. purp.	11,00	11,66		
	TSD-8A12, 850 nm, 3 mW, chip-dice, 8°, comm. purp.	11,00	11,66		
	TSD-98, 980 nm, 3 mW, chip-dice, 8°				
	diverse packages:				
	HFE4080-321, 850 nm, 1.3 mW, 6 GHz	33,00	34,98		
	HFE4085-321, detto + microlens	33,00	34,98		
	TMC-4B20-7, 785 nm, 3 mW, TO-46, caplens	11,00	11,66		
	TMC-4F20-000, 850 nm, 3 mW, TO-46, flat window	11,00	11,66	8,58	
	TEL-2F20-7, 785 nm, 3 mW, 3 mm clear epoxy, 2°	11,00	11,66		
	TMC-4B20-000, 850 nm, 3 mW, TO-46, caplens	11,00	11,66	8,58	

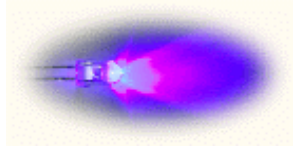

TMC-4B28, 850 nm, >8 mW, TO-46, caplens	21,00	22,26		
TMC-5A40, 850 nm, 2 mW, TO-46, caplens	16,50	17,49	13,13	
TMC-5F40, 850 nm, 2 mW, TO-46, flat window	16,50	17,49	13,13	
TMC-5A41, 850 nm, 2 mW, TO-46, PD, caplens	24,00	25,44		
TMC-5F41, 850 nm, 2 mW, TO-46, PD, flat window	24,00	25,44		
TEL-2A-20, 850 nm, 3 mW, 3 mm, ceramic., 7°	11,00	11,66	8,58	
TEL-2C-20, 850 nm, 3 mW, 5 mm, epoxy, 1.5°	11,00	11,66	8,58	
TEL-2D-20, 850 nm, 3 mW, 5 mm, 5°	11,00	11,66	8,58	
TEL-2D-20-7, 780 nm, 3 mW, 5 mm, 5°	11,00	11,66		
TEL-2E-20-700, 850 nm, 3 mW, 5 mm, flat top, 10°	13,00	13,78	10,50	
TEL-2F-20, 850 nm, 3 mm, round top, 4°	11,00	11,66	8,58	
TEL-2F-20-7, 850 nm, 3 mm, round top, 4°	11,00	11,66		
TEL-2G20, 850 nm, 1.9 mm, gull wing, 3.5°				
TEL-2H20, 850 nm, 1.5 mm, side look, 4°				
TSM-3A20, 850 nm, SMD, flat, 2 pins, 8°	11,00	11,66	8,75	
TSM-3B20, 850 nm, SMD, flat, 2 pins, 8°	11,00	11,66	8,75	
TSM-3C20, 850 nm, SMD, dome, 2 pins, 3°				
TSM-3D20, 850 nm, SMD, round, 2 pins, 8°				
TSM-3E20, 850 nm, SMD, flat, 2 pins, 8°				
TEL-3A, 850 nm, clear epoxy, ceramic, 8°	17,00	18,02		
TMC-4A, 850 nm, TO-46, caplens	21,00	22,26		
TMC-4B, 850 nm, TO-46, ballens, 2°	20,00	21,20		
TMC-4F, 850 nm, TO-46, flat. wind, 8°	20,00	21,20		
TTR-1A23, 850 nm, ST-metal connector	40,00	42,40		
TTR-1B23, 850 nm, ST-plastic connector	29,00	30,74		
TTR-1A43, 850 nm, >1GHz, ST-metal connector	40,00	42,40		
TTR-1C43, 850 nm, >1GHz, FC-metal connector	40,00	42,40		
TTR-A2, 850 nm, ST-connector	33,00	34,98		
TTR-B1, 850 nm, ST-connector	42,00	44,52		
TTR-B2, 850 nm, ST-connector	33,00	34,98		
TTR-C1, 850 nm, FC-connector	40,00	42,40		
TTR-C2, 850 nm, FC-connector	33,00	34,98		
TTR-D1, 850 nm, SC-connector	33,00	34,98		
TTR-D2, 850 nm, SC-connector	30,00	31,80		
05 LASER DIODE MODULES LJ series (CW)	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
 series LJ laser diode module, diverse wavelenths available complete and ready to use, focusable acrylic collimator optic				
LDM635/1LJ, 635 nm, 1 mW, focusable, 3-6 V, 12 x 30.5 mm	30,00	31,80	21,00	15,00
LDM635/3LJ, 635 nm, 3 mW, focusable, 3-6 V, 12 x 30.5 mm	40,00	42,40	28,00	20,00
LDM650/1LJ, 650 nm, 1 mW, focusable, 3-6 V, 12 x 30.5 mm	19,00	20,14	13,30	9,50
LDM650/1LJM, 650 nm, 1 mW, modulable DC- 360 kHz	23,00	24,38	16,10	11,50
LDM650/3LJ, 650 nm, 3 mW, focusable, 3-6 V, 12 x 30.5 mm	21,00	22,26	14,70	10,50
LDM650/5LJ, 650 nm, 5 mW, focusable, 3-6 V, 12 x 30.5 mm	36,00	38,16	25,20	18,00
LDM660/1LJ, 660 nm, 1 mW, focusable, 3-6 V, 12 x 30.5 mm	22,47	23,82	15,73	11,24
LDM660/3LJ, 660 nm, 3 mW, focusable, 3-6 V, 12 x 30.5 mm	24,72	26,20	17,30	12,36
LDM660/5LJ, 660 nm, 5 mW, focusable, 3-6 V, 12 x 30.5 mm	31,46	33,35	22,02	15,73
LDM660/7LJ, 660 nm, 7 mW, focusable, 3-6 V, 12 x 30.5 mm	33,71	35,73	23,59	16,85
LDM780/1LJ, 780 nm, 1 mW, focusable, 3-6 V, 12 x 30.5 mm	44,94	47,64	31,46	22,47
LDM780/3LJ, 780 nm, 3 mW, focusable, 3-6 V, 12 x 30.5 mm	53,93	57,17	37,75	26,97
LDM808/3LJ, 808 nm, 5 mW, focusable, 3-6 V, 12 x 30.5 mm	44,94	47,64	31,46	22,47
LDM830/40LJ, 830 nm, 40 mW, focusable, 3-6 V, 12 x 30.5 mm	193,25	204,85	135,28	96,63
05 LASER DIODE MODULES LJM series (modulable DC..360 kHz)	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+

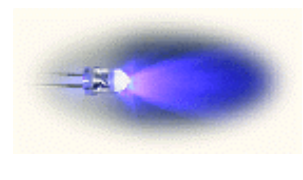
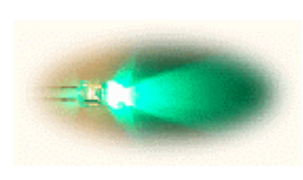
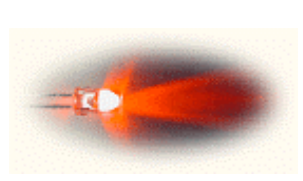
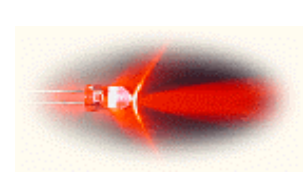
	series LJM laser diode module, diverse wavelenths available complete and ready to use, focusable acrylic collimator optic with modulation DC to 360 kHz, analog and digital				
LDM635/1LJM, 635 nm, 1 mW, focusable, 3-6 V, 12 x 30.5 mm	35,00	37,10	24,50	17,50	
LDM635/3LJM, 635 nm, 3 mW, focusable, 3-6 V, 12 x 30.5 mm	45,00	47,70	31,50	22,50	
LDM650/1LJM, 650 nm, 1 mW, modulable DC- 360 kHz	24,00	25,44	16,80	12,00	
LDM650/3LJM, 650 nm, 3 mW, focusable, 3-6 V, 12 x 30.5 mm	28,00	29,68	19,60	14,00	
LDM650/5LJM, 650 nm, 5 mW, focusable, 3-6 V, 12 x 30.5 mm	26,00	27,56	18,20	13,00	
LDM660/1LJM, 660 nm, 1 mW, focusable, 3-6 V, 12 x 30.5 mm	41,00	43,46	28,70	20,50	
LDM660/3LJM, 660 nm, 3 mW, focusable, 3-6 V, 12 x 30.5 mm	27,47	29,12	19,23	13,74	
LDM660/5LJM, 660 nm, 5 mW, focusable, 3-6 V, 12 x 30.5 mm	29,72	31,50	20,80	14,86	
LDM660/7LJM, 660 nm, 7 mW, focusable, 3-6 V, 12 x 30.5 mm	36,46	38,65	25,52	18,23	
LDM780/1LJM, 780 nm, 1 mW, focusable, 3-6 V, 12 x 30.5 mm	38,71	41,03	27,09	19,35	
LDM780/3LJM, 780 nm, 3 mW, focusable, 3-6 V, 12 x 30.5 mm	49,94	52,94	34,96	24,97	
LDM808/3LJM, 808 nm, 5 mW, focusable, 3-6 V, 12 x 30.5 mm	58,93	62,47	41,25	29,47	
LDM830/40LJM, 830 nm, 40 mW, focusable, 3-6 V, 12 x 30.5 mm	193,25	204,85	135,28	96,63	
05 LASER DIODE MODULES LT series	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+	
	series LT laser diode module, diverse wavelenths available, complete and ready to use, focusable 3-lens glass collimator.				
LDM635/1LT, 635 nm, 1 mW, focusable, glass lens, 4-6V, 13 x 52 mm	60,00	63,60	42,00	30,00	
LDM635/3LT, 635 nm, 3 mW, focusable, glass lens, 4-6V, 13 x 52 mm	60,00	63,60	42,00	30,00	
LDM635/5LT, 635 nm, 5 mW, focusable, glass lens, 4-6V, 13 x 52 mm	80,00	84,80	56,00	40,00	
LDM635/7LT, 635 nm, 7 mW, focusable, glass lens, 4-6V, 13 x 52 mm	120,00	127,20	84,00	60,00	
LDM650/1LT, 650 nm, 1 mW, focusable, glass lens, 4-6V, 13 x 52 mm	23,00	24,38	16,10	11,50	
LDM650/3LT, 650 nm, 3 mW, focusable, glass lens, 4-6V, 13 x 52 mm	32,00	33,92	22,40	16,00	
LDM655/5LT, 655 nm, 5 mW, focusable, glass lens, 4-6V, 13 x 52 mm	56,18	59,55	39,32	28,09	
LDM650/7LT, 650 nm, 7 mW, focusable, glass lens, 4-6V, 13 x 52 mm	65,00	68,90	45,50	32,50	
LDM660/1LT, 660 nm, 1 mW, focusable, glass lens, 4-6V, 13 x 52 mm	35,95	38,11	25,17	17,98	
LDM660/3LT, 660 nm, 3 mW, focusable, glass lens, 4-6V, 13 x 52 mm	40,45	42,88	28,31	20,22	
LDM660/5LT, 660 nm, 5 mW, focusable, glass lens, 4-6V, 13 x 52 mm	42,00	44,52	29,40	21,00	
LDM660/7LT, 660 nm, 7 mW, focusable, glass lens, 4-6V, 13 x 52 mm	76,40	80,99	53,48	38,20	
LDM780/1LT, 780 nm, 1 mW, focusable, glass lens, 4-6V, 13 x 52 mm	53,93	57,17	37,75	26,97	
LDM780/3LT, 780 nm, 3 mW, focusable, glass lens, 4-6V, 13 x 52 mm	62,92	66,69	44,04	31,46	
LDM780/5LT, 780 nm, 5 mW, focusable, glass lens, 4-6V, 13 x 52 mm	80,90	85,75	56,63	40,45	
LDM808/5LT, 808 nm, 5 mW, focusable, glass lens, 4-6V, 13 x 52 mm	80,90	85,75	56,63	40,45	
LDM830/40LT, 830 nm, 40 mW, focusable, glass lens, 4-6V, 13 x 52 mm	180,00	190,80	126,00	90,00	
05 LASER DIODE MODULES LTM series modulable DC..1 MHz	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+	
	series LTM laser diode module, diverse wavelenths available, complete and ready to use, focusable 3-lens glass collimator, modulation DC .. 1 MHz, analog and digital				
LDM635/1LTM, 635 nm, 1 mW, focusable, glass lens, 4-6V, 13 x 52 mm	65,00	68,90	45,50	32,50	
LDM635/3LTM, 635 nm, 3 mW, focusable, glass lens, 4-6V, 13 x 52 mm	65,00	68,90	45,50	32,50	
LDM635/5LTM, 635 nm, 5 mW, focusable, glass lens, 4-6V, 13 x 52 mm	85,00	90,10	59,50	42,50	
LDM635/7LTM, 635 nm, 7 mW, focusable, glass lens, 4-6V, 13 x 52 mm	125,00	132,50	87,50	62,50	
LDM650/1LTM, 650 nm, 1 mW, focusable, glass lens, 4-6V, 13 x 52 mm	28,00	29,68	19,60	14,00	
LDM650/3LTM, 650 nm, 3 mW, focusable, glass lens, 4-6V, 13 x 52 mm	37,00	39,22	25,90	18,50	
LDM655/5LTM, 655 nm, 5 mW, focusable, glass lens, 4-6V, 13 x 52 mm	61,18	64,85	42,82	30,59	
LDM650/7LTM, 650 nm, 7 mW, focusable, glass lens, 4-6V, 13 x 52 mm	70,00	74,20	49,00	35,00	
LDM660/1LTM, 660 nm, 1 mW, focusable, glass lens, 4-6V, 13 x 52 mm	40,95	43,41	28,67	20,48	
LDM660/3LTM, 660 nm, 3 mW, focusable, glass lens, 4-6V, 13 x 52 mm	45,45	48,18	31,81	22,72	
LDM660/5LTM, 660 nm, 5 mW, focusable, glass lens, 4-6V, 13 x 52 mm	47,00	49,82	32,90	23,50	


	LDM660/7LTM, 660 nm, 7 mW, focusable, glass lens, 4-6V, 13 x 52 mm	81,40	86,29	56,98	40,70
	LDM780/1LTM, 780 nm, 1 mW, focusable, glass lens, 4-6V, 13 x 52 mm	58,93	62,47	41,25	29,47
	LDM780/3LTM, 780 nm, 3 mW, focusable, glass lens, 4-6V, 13 x 52 mm	67,92	71,99	47,54	33,96
	LDM780/5LTM, 780 nm, 5 mW, focusable, glass lens, 4-6V, 13 x 52 mm	85,90	91,05	60,13	42,95
	LDM808/5LTM, 808 nm, 5 mW, focusable, glass lens, 4-6V, 13 x 52 mm	85,90	91,05	60,13	42,95
	LDM830/40LTM, 830 nm, 40 mW, focusable, glass lens, 4-6V, 13 x 52 mm	185,00	196,10	129,50	92,50
05	BEAM EXPANDER LASER DIODE MODULES	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	RLE635-2-3-20, 635 nm, 2 mW, sm, 24 x 96 mm, focusable, 3 VDC	180,00	190,80	148,00	
	RLE635-2-3-8, 635 nm, 2 mW, sm, 16 x 60 mm, focusable, 3 VDC	170,00	180,20	140,00	
05	HIGH POWER LASER DIODE MODULES	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	RLDH660-40-3, 660 nm, 40 mW, sm, 16 x 50 mm, focusable, 3 VDC	240,00	254,40		
	LDM650/40XXX, 650 nm, 40 mW, mm	200,00	212,00		
05	MINI LASER DIODE MODULES LDM series	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	LDM-1A, 670nm, <1 mW, 13 x 13 x 10 mm ³	96,00	101,76		
	LDM-1B, 670 nm, <5 mW, 13 x 13 x 10 mm ³	130,00	137,80		
	LDM-1C, 635 nm, <1 mW, 13 x 13 x 10 mm ³	154,00	163,24		
	LDM-1D, 635 nm, <5 mW, 13 x 13 x 10 mm ³	156,00	165,36		
05	MICRO LASER DIODE MODULES OLxx series	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 series OLxx laser diode module, very small size, available wavelengths 635 nm and 650 nm, available power <1 mW or typ. 3.5 mW				
	LDM635/3-OLU, 635 nm, 3.5 mW, fixfocus, acrylic lens 6.0 x 22.5 mm	42,00	44,52	29,40	
	LDM635/3-OLUX, 635 nm, 3.5 mW, fixfocus, acrylic lens, 6.7 x 25 mm	42,00	44,52	29,40	
	LDM650/3-OLPX, 650 nm, 3.5 mW, fixfocus, glass lens, 10.5 x 26 mm	38,20	40,49	26,74	
	LDM650/3-OLUH, 650 nm, 3.5 mW, fixfocus, acrylic lens, 6.7 x 25 mm	22,00	23,32	15,40	
	LDM650/3-OLUX, 650 nm, 3.5 mW, fixfocus, acrylic lens, 6.7 x 17.5 mm	19,00	20,14	15,30	13,77
05	QUARTON LASER DIODE MODULES VLM series	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 QUARTON modules with typ. < 1 mW or < 5 mW laser power. Available wavelengths: 650 nm and 635 nm VLMxxx-yy-LPT: <1 mW VLMxxx-yy-LPA: <5 mW				
	VLM650-00, 650 nm, fix, 10.52 x 17.2 mm, w/o driver board	26,83	28,43	9,00	8,40
	VLM650-01, 650 nm, 1 mW, fixfocus, 10.52 x 17.2 mm	28,68	30,40	13,40	12,20
	VLM650-02, 650 nm, 1 mW or <5 mW, fixfocus, 10.52 x 17.2 mm	28,68	30,40	13,40	12,20
	VLM650-03, 650 nm, 1 mW or <5 mW, fixfocus, 7.0 x 22.5 mm	14,25	15,10	8,60	8,20
	VLM650-04, 650 nm, 1 mW or <5 mW, fixfocus, 5.55 x 12.1 mm	13,88	14,71	8,00	7,60
	VLM650-05, 650 nm, 1 mW or <5mW, fixfocus, 6.55 x 12.1 mm	14,25	15,10	8,60	8,20
	VLM650-06, 650 nm, 1 mW or <5 mW, fixfocus, 12.50 x 53.0 mm	63,83	67,65	23,20	21,00
	VLM650-07, 650 nm, 1 mW or <5 mW, fixfocus, 12.50 x 53.0 mm	65,68	69,62	35,10	33,40
	VLM650-08, 650 nm, 1 mW or <5 mW, fixfocus, 10.51 x 24.6 mm	14,80	15,69	9,40	9,00
	VLM650-09, 650 nm, 1 mW or <5 mW, fixfocus, 10.51 x 31.0 mm	15,17	16,08	9,80	9,40
	VLM650-10, 650 nm, fixfocus, 10.52 x 30.0 mm, w/o driver board	33,30	35,30	13,00	12,20
	VLM650-11, 650nm, <5 mW, fixfocus, 10.52 x 30.0 mm	35,15	37,26	15,00	14,30
	VLM650-12, 650nm, 1 mW or <5 mW, fixfocus, 10.52 x 40.6 mm	35,15	37,26	15,00	14,30
	VLM650-14, 650 nm, 1 mW or <5 mW, fixfocus, 12.00 x 43.0 mm	36,08	38,24	16,00	15,40
	VLM650-15, 650 nm, 1 mW or <5 mW, fixfocus, 12.00 x 30.0 mm	46,25	49,03	40,30	38,40
	VLM635-15, 635 nm, 1 mW or <5 mW, fixfocus, 12.00 x 30.0 mm	79,55	84,32	78,00	74,00
	VLM650-16, 650 nm, 1 mW or <5 mW, fixfocus, 8.50 x 24.5 mm	46,25	49,03	40,30	38,40
	VLM650-17, 650 nm, 1 mW or <5 mW, fixfocus, 12.00 x 30.0 mm	30,53	32,36	16,20	15,40
	VLM650-27, 650 nm, 1 mW or <5 mW, linegenerator, 12.50 x 33.0 mm	64,75	68,64	50,00	44,00
	VLM635-27, 635 nm, 1 mW or <5 mW, linegenerator, 12.50 x 33.0 mm	86,95	92,17	69,00	66,00
	option: higher power and focusable optic				
05	INFRARED LASER DIODE MODULES	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
new	DT850-30-3, 850 nm, 20 mW, focusable, 12 x 34.5 mm, 3 VDC	145,00	153,70	120,00	94,00
	C2021-B1, 980 nm, focusable, 10.5 x 20 mm, 10..20 mW, 3 VDC	54,00	57,24	42,50	34,00
	C2021-C1, 980 nm, focusable, 10.5 x 20 mm, 20..35 mW, 3 VDC	66,00	69,96	48,00	36,00

	C2021-E1, 980 nm, focusable, 90..120 mW, 14 x 43 mm, 3 VDC	128,00	135,68	96,00	72,00
new	C2021-F1, 980 nm, focusable, 150..200 mW, 14 x 43 mm, 3 VDC	158,00	167,48	118,00	79,00
05	LOW COST LASER DIODE MODULES LM and RLM series	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 <p>low cost laser diode modules for general purposes, visible wavelength 650 nm and power typ. < 3 mW or < 1 mW custom design on request</p>				
new	LM-01, 650 nm, <3 mW, dot, fixfocus, 8 x 29.5 mm, 3.0 VDC	7,50	7,95	5,00	4,50
new	LM-02, 650 nm, <3 mW, dot, fixfocus, 12 x 30.5 mm, 3.0 VDC	7,50	7,95	5,00	4,50
new	LM-03, 650 nm, 1 mW, dot, fixfocus, 9 x 18 mm, 3.0-4.5 VDC	8,00	8,48	5,40	4,86
new	LM-04, 650 nm, 1 mW, line, fixfocus, 9 x 25 mm, 3.0-4.5 VDC	8,00	8,48	5,60	5,00
new	DT650-2.5-3, 650 nm, 3 mW, focusable, 3.0 VDC	6,50	6,89	5,80	
new	RLM-650-A, 650 nm, typ. 3..5 mW, 10 x 26.5 mm, 3.0-4.5 VDC	5,50	5,83	4,30	4,00
new	RLM-650-B, 650 nm, typ. 3..5 mW, 8 x 23.5 mm, 3.0-4.5 VDC	5,50	5,83	4,30	4,00
new	RLM-635-A, 635 nm, typ. 3..5 mW, 10 x 26.5 mm, 3.0-4.5 VDC	13,00	13,78	10,30	4,00
new	RLM-635-B, 635 nm, typ. 3..5 mW, 8 x 23.5 mm, 3.0-4.5 VDC	13,00	13,78	10,30	4,00
05	VIOLET DIODELASERS, VLMxx series, pulsed mode	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
new	VLMA1, 405+/-15nm, 50 mW pulse, 30 ns, 1,10,100 kHz, < 2 mrad		c.s.		
new	VLMA2, 405+/-15nm, 50 mW pulse, 30 ns, 1,10,100 kHz, round beam		c.s.		
new	VLMB1, 405+/-15nm, 200 mW pulse, 30 ns, 1,10,100 kHz, < 2 mrad		c.s.		
05	BLUE DIODE PUMPED SOLID STATE LASERS, MBL series	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 <p>diode pumped solid state blue laser system, ready to use, driver supply voltage 5 VDC, AC power supply included</p>				
new	MBL-473-1, 473 nm, 1 mW, cw, 5 VDC	2.210,00	2.254,20	2.080,00	
new	MBL-473-3, 473 nm, 3 mW, cw, 5 VDC	2.465,00	2.514,30	2.349,00	
new	MBL-473-5, 473 nm, 5 mW, cw, 5 VDC	2.800,00	2.856,00	2.720,00	
new	MBL-473-10, 473 nm, 10 mW, cw, 5 VDC	3.500,00	3.570,00	3.320,00	
new	DPSSL-473-5, 473 nm, 5 mW, cw and modulation, 100-250 VAC	3.582,00	3.653,64		
new	DPSSL-473-10, 473 nm, 10 mW, cw and modulation, 100-250 VAC	4.122,00	4.204,44		
new	DPSSL-473-15, 473 nm, 15 mW, cw and modulation, 100-250 VAC	4.662,00	4.755,24		
new	DPSSL-473-20, 473 nm, 20 mW, cw and modulation, 100-250 VAC	5.202,00	5.306,04		
	115/230 VAC versions available on request				
05	GREEN DIODE PUMPED LASER MODULES GLM series	\$ (USD)	€ (EURO)	\$ / 10	\$ / 100+
	 <p>diode pumped solid state green laser system, ready to use, driver supply voltage 9..12 VDC</p>				
	GLM-1, 532 nm, 1..3 mW, cw+modulable, 9 VDC	310,00	328,60	272,00	250,00
	GLM-3, 532 nm, 3..5 mW, cw+modulable, 9 VDC	325,00	344,50	272,00	250,00
	GLM-5, 532 nm, 5..10 mW, cw+modulable, 9 VDC	350,00	371,00	333,00	308,00
	GLM-10, 532 nm, 10..15 mW, cw+modulable, 9 VDC	400,00	424,00	380,00	373,00
	GLM-20, 532 nm, 20..25 mW, cw+modulable, 9 VDC	625,00	662,50	578,00	528,00
	GLM-30, 532 nm, 30..40 mW, cw+modulable, 9 VDC	725,00	768,50	665,00	615,00
new	GLM-50, 532 nm, 50..60 mW, cw+modulable, 5VDC or 9 VDC	1.290,00	1.367,40	1.140,00	980,00
new	GLM-100, 532 nm, 100 mW, cw+modulable, 5 VDC or 9 VDC	1.980,00	2.098,80	1.650,00	
05	GREEN DIODE PUMPED LASER MODULES ELD series	\$ (USD)	€ (EURO)	\$ / 10	\$ / 100+
new	ELD53M1, 532 nm, 1..3mW, 13x150 mm, 3 VDC				
new	ELD53M5, 532 nm, 3..5 mW, 13 x 150 mm, 3 VDC				
05	GREEN DIODE PUMPED LASER MODULES GLMC1 series	\$ (USD)	€ (EURO)	\$ / 10	\$ / 100+

		diode pumped solid state green laser system, ready to use, driver supply voltage 9..12 VDC				
new	GLMC1-1, 532 nm, 1.3 mW, cw+modulable, case, BNC, 9 VDC		350,00	371,00	298,00	275,00
new	GLMC1-3, 532 nm, 3.5 mW, cw+modulable, case, BNC, 9 VDC		360,00	381,60	298,00	275,00
new	GLMC1-5, 532 nm, 5..10 mW, cw+modulable, case, BNC, 9 VDC		370,00	392,20	333,00	305,00
new	GLMC1-10, 532 nm, 10..20 mW, cw+modulable, case, BNC, 9 VDC		440,00	466,40	400,00	372,00
new	GLMC1-20, 532 nm, 20..30 mW, cw+modulable, case, BNC, 9 VDC		660,00	699,60	580,00	535,00
new	GLMC1-30, 532 nm, 30..40 mW, cw+modulable, case, BNC, 9 VDC		760,00	805,60	700,00	648,00
05	GREEN DIODE PUMPED LASER MODULES MGM2 series		\$ (USD)	€ (EURO)	\$ / 10	\$ / 100+
		diode pumped solid state green laser system type MGM2-x, ready to use, driver supply voltage 4..6 VDC				
new	MGM2-01, 532 nm, 1.3 mW, cw, 4-6 VDC		490,00	519,40		
new	MGM2-03, 532 nm, 3.5 mW, cw, 4-6 VDC		490,00	519,40		
new	MGM2-05, 532 nm, 5..10 mW, cw, 4-6 VDC		570,00	604,20		
new	MGM2-10, 532 nm, 10..15 mW, cw, 4-6 VDC		600,00	636,00		
new	MGM2-20, 532 nm, 20..25 mW, cw, 4-6 VDC		820,00	869,20		
new	MGM2-30, 532 nm, 30..40 mW, cw, 4-6 VDC		920,00	975,20		
new	MGM2-50, 532 nm, >50 mW, cw, 4-6 VDC		1.480,00	1.568,80		
05	GREEN DIODE PUMPED LASER MODULES DPSSL series		\$ (USD)	€ (EURO)	\$ / 10	\$ / 100+
		diode pumped solid state green laser system DPSSL series, ready to use, 100-250 VAC, 50~60 Hz power supply included				
new	DPSSL-60, 532 nm, 60 mW cw & 30 kHz mod., M ² <1.2, P<+/-2%		1.281,00	1.293,81	1.128,50	
new	DPSSL-70, 532 nm, 70 mW cw & 30 kHz mod., M ² <1.2, P<+/-2%		1.323,00	1.336,23	1.165,50	
new	DPSSL-80, 532 nm, 80 mW cw & 30 kHz mod., M ² <1.2, P<+/-2%		1.470,00	1.484,70	1.295,00	
new	DPSSL-90, 532 nm, 90 mW cw & 30 kHz mod., M ² <1.2, P<+/-2%		1.575,00	1.590,75	1.387,50	
new	DPSSL-100, 532 nm, 100 mW cw & 30 kHz mod., M ² <1.2, P<+/-2%		1.890,00	1.908,90	1.665,00	
new	DPSSL-120, 532 nm, 120 mW cw & 30 kHz mod., M ² <1.2, P<+/-2%		2.310,00	2.333,10	2.035,00	
new	DPSSL-150, 532 nm, 150 mW cw & 30 kHz mod., M ² <1.2, P<+/-2%		2.940,00	2.969,40	2.497,50	
new	DPSSL-160, 532 nm, 160 mW cw & 30 kHz mod., M ² <1.2, P<+/-2%		3.423,00	3.457,23		
new	DPSSL-170, 532 nm, 170 mW cw & 30 kHz mod., M ² <1.2, P<+/-2%		3.510,00	3.545,10		
new	DPSSL-180, 532 nm, 180 mW cw & 30 kHz mod., M ² <1.2, P<+/-2%		3.570,00	3.605,70	3.052,50	
new	DPSSL-200, 532 nm, 200 mW cw & 30 kHz mod., M ² <1.2, P<+/-2%		4.200,00	4.242,00	3.333,00	
05	RED DIODE PUMPED SOLID STATE LASERS		\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
new	MRL-671-5, DPSS, 671 nm, 5 mW, cw, 5 VDC		1.600,00	1.696,00		
new	MRL-671-10, DPSS, 671 nm, 10 mW, cw, 5 VDC		1.950,00	2.067,00		
new	MRL-671-20, DPSS, 671 nm, 20 mW, cw, 5 VDC		2.280,00	2.416,80		
05	DPSS INFRARED LASER MODULES		\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	PIL-VI-1064-1, DPSS, 1064 nm, 1 mW , cw, 5 VDC		224,00	228,48	210,00	
	PIL-VI-1064-3, DPSS, 1064 nm, 3 mW , cw, 5 VDC		244,00	248,88	226,00	
	PIL-VI-1064-5, DPSS, 1064 nm, 5 mW , cw, 5 VDC		264,00	269,28	249,00	
	PIL-VI-1064-10, DPSS, 1064 nm, 10 mW , cw, 5 VDC		296,00	301,92	271,00	
	PIL-VI-1064-20, DPSS, 1064 nm, 20 mW , cw, 5 VDC		330,00	336,60	300,00	
	MIL-1064-100, DPSS, 1064 nm, 100 mW , cw, 5 VDC, w/PS 80-240VAC		1.295,00	1.320,90		
new	DPSSL-1064-200, 1064 nm, 200 mW , cw and modulation, 100-250VAC		2.375,00	2.422,50		
new	DPSSL-1064-300, 1064 nm, 300 mW , cw and modulation, 100-250VAC		2.565,00	2.616,30		
new	DPSSL-1064-500, 1064 nm, 500 mW , cw and modulation, 100-250VAC		2.945,00	3.003,90		
new	DPSSL-1064-800, 1064 nm, 800 mW , cw and modulation, 100-250VAC		3.515,00	3.585,30		
new	DPSSL-1064-1000, 1064 nm, 1 W , cw and modulation, 100-250VAC		3.705,00	3.779,10		
	MIL-M-1342-20, DPSS, 1342 nm, 20 mW , cw, 5 VDC		1.440,00	1.468,80		





	MIL-M-1342-50, DPSS, 1342 nm, 50 mW , cw, 5 VDC	1.700,00	1.734,00		
	MIL-M-1342-100, DPSS, 1342 nm, 100 mW , cw, 5 VDC	1.950,00	1.989,00		
05	Q-SWITCHED DIODE PUMPED IR LASERS	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	MIL-P-1064, Q-switched, 1064 nm, 200 W pulse / 25 ns / 10 kHz, 115/230 VAC	2.365,00	2.506,90		
	PIL-II-P-1064, Q-switched, 1064 nm, 15 W pulse / 30 ns / 100 kHz, 5 VDC	1.184,00	1.184,00		
05	Q-SWITCHED DIODE PUMPED GREEN LASERS	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
new	MGL-P1-532, Q-switched, 532 nm, 20 W pulse / 40 ns / 10kHz, 115/230 VAC	3.448,00	3.654,88		
new	MGL-P2-532, Q-switched, 532 nm, 5 W pulse / 60 ns / 50 kHz, 115/230 VAC	3.320,00	3.519,20		
07	UV-LEDs 350 nm - 405 nm	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 UV-LEDs 5 mm clear epoxy package				
new	RLT350-30, 350 nm , 30°, 40 µW @ 20 mA, 5 mm clear epoxy	32,00	32,32	26,80	23,00
	RLT370-10, 370 nm , 10°, 0.75 mW @ 15 mA	45,00	45,45	32,18	23,00
	RLT370-110, 370 nm , 110°, 1.0 mW @ 15 mA	45,00	45,45	32,18	23,00
new	UVLED370-10, 370 nm , 10°, TO-46 ball lens, 0.75 mW @ 15 mA	8,00	8,08	5,66	5,23
new	UVLED370-110, 370 nm , 110°, TO-46 flat window, 1 mW @ 15 mA	8,00	8,08	5,66	5,23
new	LED375-04, 375 nm , 2.5 mW @ 20 mA, +/-17°, 5 mm clear epoxy	12,00	12,12	11,00	9,00
new	380D30, 380 nm , FWHM=15 nm, 30°, 3-5 mW, 5 mm clear epoxy	6,00	6,06	3,50	3,00
new	380D15, 380 nm , FWHM=15 nm, 15°, 3-5 mW, 5 mm clear epoxy	6,00	6,06	3,50	3,00
new	380SMD100, 380 nm , FWHM=15 nm, 120°, 3-5 mW, SMD package	6,50	6,57	3,60	3,10
new	UVLED380-10, 380 nm , 10°, TO-46 ball lens, 2.0-3.4 mW @ 20 mA	8,00	8,08	5,66	5,23
new	UVLED380-110, 380 nm , 110°, TO-46 flat wind., 2.8-4.8 mW @ 20 mA	8,00	8,08	5,66	5,23
new	LED385-04, 385 nm , 3.5 mW @ 20 mA, +/-17°, 5 mm clear epoxy	10,80	10,91	10,00	8,00
new	385D30, 385 nm , FWHM = 15 nm, 30°, 3-5 mW, 5 mm clear epoxy	5,00	5,05	3,20	2,50
new	385D15, 385 nm , FWHM = 15 nm, 30°, 3-5 mW, 5 mm clear epoxy	5,00	5,05	3,20	2,50
	E1L5M-3POAP-02, 385 nm , TO-46 flat win., 110°, 1.7 mW @ 20 mA	7,40	7,47	5,20	3,99
	E1L5M-4POA2-01, 385 nm , TO-46 ball lens, 16°, 1.5-2.3 mW @ 20 mA	7,70	7,78	5,40	4,20
	E1L5M-4POA2-01, 385 nm , TO-46 ball lens, 16°, 2.3-3.5 mW @ 20 mA	8,80	8,89	6,20	4,80
	E1S09-0P0A9-02, 378 nm , SMD, 3.3x3.0 mm, 110°, 1.7 mW @ 20 mA	7,40	7,47	3,39	2,48
	E1S09-0P0A9-02, 382 nm , SMD, 3.3x3.0 mm, 110°, 1.7 mW @ 20 mA	7,40	7,47	3,39	2,48
	E1S09-0P0A9-02, 385 nm , SMD, 3.3x3.0 mm, 110°, 1.7 mW @ 20 mA	7,40	7,47	3,39	2,48
new	LED395-03V, 395 nm , 6.0 mW @ 20 mA, +/-12°, 5 mm clear epoxy	5,80	5,86	5,38	4,37
new	400D15, 400 nm , 1.3 mW @ 20mA, 15°, 5 mm clear epoxy	3,80	3,84	2,20	1,10
new	LED405-03V, 405 nm , 10.0 mW @ 20 mA, +/-12°, 5 mm clear epoxy	5,66	5,72	5,23	4,24
	B5-437-CVD, 405 nm , FWHM=10 nm 30°, 5-7 mW, 5 mm clear epoxy	4,85	4,90	2,91	1,94
	HUUU-5101L-2, 410 nm , FWHM=12 nm, 20°, 3 mW, 5 mm clear epoxy	3,50	3,54	1,50	1,20
	HUUU-5102L, 393 nm , FWHM=13 nm, 20°, 2 mW, 5 mm clear epoxy	5,00	5,05	3,00	1,30
	LC503MUV1-30Q, 405 nm , FWHM=12 nm, 5-6 mW, 30°, 5 mm clear epoxy	5,00	5,05	3,00	1,15
	GB-333UV1C/L1, 400 nm , FWHM=11 nm, 25°, 5 mW, 5 mm clear epoxy	5,00	5,05	3,00	1,60
07	UV-LEDs 380 nm - 405 nm TO-220 package	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 UV-LEDs TO-220 packages				
new	380TO220, 380 nm , 60°, 1 mW @ 20 mA, TO-220	7,50	7,95	4,30	3,80
new	400TO220, 400 nm , 60°, 2.5 mW @ 20 mA, TO-220	7,50	7,95	4,30	3,80
	470TO220, 470 nm , 60°, xxx mW @ 350 mA, TO-220	c.s.			
	525TO220, 525 nm , 60°, xxx mW @ 350 mA, TO-220	c.s.			
	870TO220, 870 nm , 60°, xxx mW @ 700 mA, TO-220	c.s.			
07	VIOLET-BLUE LED WAFER wafelength typ. 402 nm	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
new	NS400, GaN on sapphire, 2", 397-407 nm, Vf: 3.8V, Vr: 10V, > 3mW	2.200,00	2.332,00	1.800,00	
07	BLUE LEDs 430 nm - 470 nm	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+



	 blue LEDs 5 mm clear epoxy package				
	333-2UBC, 430 nm , 0.4 cd @ 20 mA, 5 mm clear epoxy	2,25	2,38	1,60	0,72
	383UBC, 430 nm , 0.6cd @ 20 mA, 5 mm clear epoxy	2,25	2,38	1,60	1,50
new	LED450-01U, 450 nm , 1.3 mW @ 20mA, 20°, 5 mm clear epoxy	3,96	4,20	2,64	2,31
new	L5T15B, 470 nm , 3.5 mW or 2.5 cd @ 20mA, 15°, 5 mm clear epoxy	1,80	1,91	1,40	0,96
	HSBL-5101L, 470 nm , 5 mm clear epoxy	2,25	2,39	1,60	0,70
	HSBL-3101L, 470 nm , 3 mm clear epoxy	2,25	2,39	1,60	0,70
	HUBL-3101L, 470 nm , 3 mm clear epoxy	2,25	2,39	1,60	0,65
07	WHITE LEDs	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	383UWC, white , 3.7 cd @ 20 mA, 13°, 5 mm clear epoxy	2,25	2,39	2,50	2,00
new	DDW-UJ2-TU1-1, white , 500 mcd @ 20mA, 3.2 x 2.8 mm ² , 120°, SMD	2,25	2,39	1,60	1,50
new	SO6TW-L04, white , 500 mcd @ 20mA, 1.6 x 1.0 mm ² , 120°, SMD	1,10	1,17	0,90	0,80
new	L5T20W, white , 2.5 cd @ 20mA, 20°, 5 mm clear epoxy	1,10	1,17	0,90	0,80
new	HLWW-L51, white , 4.2 cd @ 20 mA, 5 mm, 15°, x:0.30, y:0.31	2,50	2,65	1,70	1,10
	HUWH-5101L, white , 3.7 cd @ 20 mA, 5 mm clear epoxy	2,25	2,39	1,60	1,00
	HUWH-3101L, white , 3.7 cd @ 20 mA, 3 mm clear epoxy	2,25	2,39	1,60	1,00
07	BLUE-GREEN LEDs 480 nm - 505 nm	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 blue-green LEDs 5 mm clear epoxy package				
	HUBG-5102L, 480 nm , 2.0 cd @ 20mA, 20°, turquoise color, 5 mm	2,25	2,39	1,60	0,98
new	LED490-03U, 490 nm , 1.2 mW(1.4 cd) @ 20mA, 24°, 5 mm clear epoxy	2,55	2,70	2,34	2,00
	E1L52-YC1A2-02, 500 nm , 1.8 cd @ 10 mA, 30°, 5 mm clear epoxy	2,25	2,39	1,60	0,98
	HUBG-5104L, 504 nm , 2.2 cd, 25°, 5 mm clear epoxy	2,25	2,39	1,60	0,98
new	L5T15BG, 505 nm , 1.3 mW or 3.5 cd @ 20mA, 15°, 5 mm clear epoxy	2,00	2,12	1,23	0,98
	HUBG-5108L, 505 nm - 508 nm , 4.9 - 7.3 cd, 25°, 5 mm clear epoxy	2,50	2,65	1,60	0,98
	HUBG-5109L, 508 nm - 510 nm , 5.2 - 7.0 cd, 25°, 5 mm clear epoxy	2,50	2,65	1,70	1,10
	383-2UBGC, 502 nm , 2.5 cd @ 20mA, 5 mm clear epoxy	1,90	2,01	1,60	1,50
	LC503NBG1-30Q, 505 nm , 2-4 cd, 30°, 5 mm, green traffic sign	2,15	2,28	1,50	0,74
	HUPG-5101L, 525 nm , 3.5 - 5.0 cd @ 20 mA, 5 mm, 15°, clear epoxy	2,50	2,65	1,50	0,97
	B5-433-B525, 525 nm , 7.0 - 10.0 cd @ 20 mA, 5 mm, 15°, clear epoxy	2,25	2,39	1,25	0,84
	383UGC, green, 570 nm , 185 µW @ 20 mA, clear epoxy	1,00	1,06	0,50	0,32
07	YELLOW-ORANGE LEDs 590 nm - 610 nm	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 yellow-orange LEDs 5 mm clear epoxy package				
	383-2UYC, 590 nm , 425 µW @ 20 mA, 5 mm clear epoxy	1,00	1,06	0,60	0,34
new	OPE5T59UY, 591 nm , 2 - 5 cd @ 20 mA, 8°, yellow traffic sign, 5 mm	1,60	1,70	1,20	1,00
	HUYE-5104L, 590 nm , 1.5 cd, 25°, 5 mm clear epoxy				
	HUYE-5108L, 590 nm , 2.2 cd, 1.1 m @ 20 mA, 30°, 5 mm clear epoxy				
	LC503TYL1-30P, 591 nm , 1 mW @ 20 mA, 30°, 5 mm clear epoxy	1,00	1,06	0,62	0,24
new	LED600-03V, 600 nm , 1.0 mW(2.0 cd) @ 20mA, 22°, 5 mm clear epoxy	1,90	2,01	1,20	0,92
new	LED610-03V, 610 nm , 1.0 mW(2.5 cd) @ 20mA, 22°, 5 mm clear epoxy	1,90	2,01	1,20	0,92
07	RED LEDs 624 nm - 700 nm	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 yellow-orange LEDs 5 mm clear epoxy package				




	OPE5T62UO, 624 nm , 7 - 8 cd @ 20 mA, 8°, red traffic sign, 5 mm	1,60	1,70	1,20	1,00
	HURD-5106L, 625 nm , 1.2 cd, 25°, 5 mm clear epoxy	1,00	1,06	0,80	0,30
	LC503THR1-30P, 628 nm , 5 mW @ 20 mA, 30°, red traffic sign, 5 mm	1,00	1,06	0,62	0,34
	B5-435-TL, 628 nm , typ. 10 cd @ 20 mA, 15°, 5 mm clear epoxy	1,00	1,06	0,62	0,40
	HURD-5108L, 630 nm , 2.2 cd, 3 mW @ 20mA, 30°, 5 mm clear epoxy	1,00	1,06	0,62	0,40
	OPE5T64UR, 639 nm , 5 - 6 cd @ 20 mA, +/-8°, 5 mm clear epoxy	1,60	1,70	1,20	1,00
	ELD-655-513, 655 nm , 600 mcd @ 20 mA, 10°, 5 mm clear epoxy	2,64	2,64	2,44	1,62
	HURD-5104L, 660 nm , 1 cd, 25°, 5 mm clear epoxy	1,00	1,06	0,62	0,34
	ELD-670-524, 670 nm , 3.5 mW @ 20 mA, 20°, 5 mm clear epoxy	3,40	3,60	2,75	1,72
	ELD-700-514, 700 nm , 10 mW @ 50 mA, 8°, 5 mm clear epoxy	3,50	3,71	2,75	1,72
	ELD-700-524, 700 nm , 10 mW @ 50 mA, 18°, 5 mm clear epoxy	3,40	3,60	2,75	1,72
	ELD-700-524-3, 700 nm , 17 mW @ 0.1 A, 8°, 5 mm clear epoxy	3,40	3,60	2,75	1,72
07	INFRARED LEDs 720 nm - 1550 nm	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 IR-LEDs, diverse packages and wavelengths 720 nm up to 4600 nm				
new	ELD-720-524, 720 nm , 7 mW @ 20 mA, 20°, 5 mm clear epoxy	3,40	3,43	2,75	1,72
	ELD-740-524, 740 nm , 28 mW @ 0.1 A, 5 mm clear epoxy	3,40	3,43	2,75	1,72
new	ELD-740-544-2, 740 nm , 15 mW @ 50 mA, 5 mm clear epoxy	3,40	3,43	2,75	1,72
new	LED740-01AU, 740 nm , 5 mm clear epoxy clear epoxy	3,40	3,43	2,95	1,72
new	LED760-40K32, 760 nm , 10 mW @ 50mA, 20°, TO-18	12,00	12,12	9,24	6,50
	ELD-770-525, 770 nm , 28 mW @ 0.1 A, 5 mm clear epoxy	3,40	3,43	2,75	1,72
	LED770-04AU, 770 nm , 18 mW @ 50 mA, +/- 15°, 5 mm clear epoxy	3,40	3,43	2,75	1,99
	ELD-780-514, 780 nm , 14°, 11 mW @ 50 mA, 5 mm clear epoxy	3,40	3,43	2,75	1,72
	ELD-780-524, 780 nm , 18°, 16 mW @ 50 mA, 5 mm, 40 ns	3,40	3,43	2,75	1,72
	ELD-810-525, 810 nm , 28 mW @ 100 mA, 5 mm clear epoxy	3,40	3,43	2,75	1,72
new	LED840-04AU, 840 nm , 20 mW @ 50 mA, +/- 20°, 5 mm clear epoxy	3,40	3,43	2,75	1,99
	ELD840-515, 840 nm , 11°, 15 mW @ 100 mA, 5 mm clear epoxy	3,40	3,43	2,75	1,72
	ELD-840-525, 840 nm , 23°, 35 mW @ 100 mA, 5 mm clear epoxy	3,40	3,43	2,75	1,72
	LED850-04UP, 850 nm , 22 mW @ 50 mA, +/- 20°, 5 mm clear epoxy	1,80	1,82	1,50	0,90
	HIR333, 850 nm , 14 mW @ 100 mA, 17°, 5 mm clear epoxy	1,20	1,21	1,00	0,88
	OPE5T85, 850 nm , 35 mW @ 100 mA, 8°, 25/13 ns, 5 mm clear epoxy	1,80	1,82	1,40	1,25
	ELD-870f-515-2, 870 nm , 16 mW @ 100 mA, 8°, 5 mm clear epoxy	5,20	5,25	4,40	2,22
	OPE5T87, 880 nm , 38 mW @ 100 mA, 8°, 25/15 ns, 5 mm clear epoxy	1,80	1,82	1,40	1,25
new	OPE5687HP, 880 nm , 45 mW @ 100 mA, 22°, 25/15 ns, 14 MHz, 5 mm	1,90	1,92	1,50	1,35
	ELD-880-525, 880 nm , 32 mW @ 100 mA, 5 mm clear epoxy	3,40	3,43	2,75	1,72
	ELD-905-535, 905 nm , 28 mW @ 100 mA, 5 mm clear epoxy	3,40	3,43	2,75	1,72
new	LED910-01, 910 nm , 10.0 mW @ 50mA, 20°, 5 mm clear epoxy	3,40	3,43	1,55	1,20
	ELD-920-535, 920 nm , 32 mW @ 100 mA, 5 mm clear epoxy	3,40	3,43	2,75	1,72
	IR333C, 940 nm , 13 mW @ 100 mA, 22°, 5 mm clear epoxy	1,00	1,01	0,90	0,60
	IR333HOL10, 940 nm , 15 mW @ 100 mA, 40°, 5 mm clear epoxy	1,00	1,01	0,92	0,62
	IR333/S5, 940 nm , 16 mW @ 100 mA, 45°, 5 mm clear epoxy	1,00	1,01	0,90	0,60
	IR383, 940 nm , 16 mW @ 100 mA, 20°, 5 mm clear epoxy	1,00	1,01	0,95	0,70
	OPE5194WK, 940 nm , 20 mW @ 100 mA, 10°, 5 mm clear epoxy	1,60	1,62	1,20	1,00
	OPE5394WK, 940 nm , 26 mW @ 100 mA, 30°, 5 mm clear epoxy	1,80	1,82	1,30	1,10
	OPE5594S, 940 nm , 16 mW @ 100 mA, 10°, 5 mm clear epoxy	1,60	1,62	1,20	1,00
	ELD-950-525, 950 nm , 23 mW @ 100 mA, 5 mm clear epoxy	3,20	3,23	2,40	1,46
	ELD-960-525, 960 nm , 23 mW @ 100 mA, 5 mm clear epoxy	3,20	3,23	2,40	1,46
new	LED970-06, 970-980 nm , 4.0 mW @ 50mA, 14°, 5 mm clear epoxy	3,40	3,43	1,65	1,46
	ELC-1020-28, 1020 nm , 0.5 mW @ 50 mA, on TO-18 socket	10,50	10,61	7,00	5,80
new	LED1050-03, 1050 nm , 2.5 mW @ 50mA, 30°, 5 mm clear epoxy	12,30	12,42	11,00	9,65
new	LED1070-03, 1070 nm , 2.5 mW @ 50mA, 30°, 5 mm clear epoxy	13,30	13,43	11,70	10,13
new	LED1200-03, 1200 nm , 2.5 mW @ 50 mA, tr,tf=10ns, 30°, 5 mm epoxy	13,30	13,43	11,70	10,13
new	LED1200-35M32, 1200 nm , 1.8 mW @ 20mA, 30°, TO-18, cap lens	18,00	18,18	14,76	13,28
	ELC-1300-28, 1300 nm , on TO-18 socket	18,00	18,18		
	ELD-1300-515-1, 1300 nm , 14°, 4 mW @ 100 mA, 5 mm clear epoxy	8,40	8,48	7,80	6,20
new	LED1300-03, 1300 nm , 1.0 mW @ 50mA, 30°, 5 mm clear epoxy	12,30	12,42	11,00	9,65
new	LED1450-03, 1450 nm , 1.0 mW @ 50mA, 30°, 5 mm clear epoxy	12,30	12,42	11,00	9,65




new	LED1550-03, 1550 nm , 1.0 mW @ 50mA, 30°, 5 mm clear epoxy	12,30	12,42	11,00	9,65
07	LEDs for sign boards, indoor & outdoor use, oval shape	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	LO484PBL-B0G, 4x3 mm, blue, 0.5-1.1 cd, 45x100°	2,25	2,39	1,50	0,92
	LO484NPG-B0G, 4x3 mm, 525 nm, 0.5-1.1 cd, 45x100°	2,25	2,39	1,15	0,75
	LO484THR4-B0G, 4x3 mm, 628 nm, 0.5-1.1 cd, 45x100°	2,25	2,39	0,62	0,25
	LO566PBL4-70G, 5.2x4.6 mm, blue, 0.7-1.5 cd, 40x70°	2,25	2,39	1,50	0,92
	LO566NPG4-70G, 5.2x4.6 mm, 525 nm, 0.7-1.5 cd, 40x70°	2,25	2,39	1,15	0,75
	LO566THR-70G, 5.2x4.6 mm, 628 nm, 0.7-1.5 cd, 40x70°	2,25	2,39	0,62	0,25
07	LED CHIP DIE	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
new	UV355CHIP, 355 nm , typ. 40 µW@ 20 mA (min. order = 100 pcs.)	20,00	21,20	20,00	20,00
new	C375MU3, 375 nm , 0.8-1.2 mW@ 20 mA (min. order = 50 pcs.)	13,70	14,52	12,00	8,40
new	C385MU4, 385 nm , 1.2-1.8 mW@ 20 mA (min. order = 50 pcs.)	3,93	4,17	3,45	2,25
new	C395MU6, 395 nm , 2.5-3.5 mW@ 20 mA (min. order = 50 pcs.)	2,00	2,12	1,80	1,03
	LEUV-C31A, 395 nm , min. 2 mW @ 20 mA (min. order = 50 pcs.)	2,00	2,12	1,30	0,80
new	C405MU8, 405 nm , 4.5-5.5 mW@ 20 mA (min. order = 50 pcs.)	2,00	2,12	1,20	0,72
new	C405MU9, 405 nm , 5.5-6.5 mW@ 20 mA (min. order = 50 pcs.)	2,15	2,28	1,80	1,20
new	C460MB4, 460 nm , 4.0-5.4 mW@ 20 mA (min. order = 50 pcs.)	1,80	1,91	0,49	0,38
	SBLED-465, 465 nm , min.1 mW @ 20 mA, 20 nm	2,00	2,12	1,30	1,10
new	C480LB8, 460 nm , 10.8-13.0 mW@ 20 mA (min. order = 50 pcs.)	1,90	2,01	0,59	0,52
new	C505MG5, 505 nm , 16.6-20.2 mW@ 20 mA (min. order = 50 pcs.)	2,00	2,12	0,85	0,62
new	OPA6625, 645 nm , 1.5 cd @ 20 mA (min. order = 100 pcs.)	2,00	2,00	0,85	0,62
	ELC-810-28-1, 810 nm , chip die with outer contact	2,00	2,12	2,00	0,65
	ELC-810-27, 810 nm , chip die with middle contact	2,00	2,12	2,00	0,65
	ELC-1020-28, 1020 nm	6,00	6,36	4,50	4,20
new	C1050-35, 1050 nm , 0.8 mW @ 20 mA (min. order QTY = 100 pcs.)	9,20	9,75	9,20	6,75
new	C1200-35, 1200 nm , 0.6 mW @ 20 mA (min. order QTY = 100 pcs.)	9,20	9,75	9,20	6,75
new	C1300-35, 1300 nm , 0.1 mW @ 20 mA (min. order QTY = 100 pcs.)	9,20	9,75	9,20	6,75
	ELC-1300-28, 1300 nm	6,00	6,36	4,50	4,20
07	SMD-LED on Si carrier 4 x 2 mm²	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	ELS-660, 660 nm , 500 mcd	7,40	7,84	4,20	2,38
	ELS-810-638, 810 nm , 1.9 x 2.0 mm ² , 17 mW, 30°, 30 ns, flip chip	7,40	7,84	4,20	2,38
	ELS-880, 880 nm , 20 mW	7,40	7,84	4,20	2,38
	ELS-920, 920 nm , 25 mW	7,40	7,84	4,20	2,38
07	HIGH POWER LEDs with JUMBO package	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 <p>high power LED, Jumbo package, available wavelengths: 590 nm, 640 nm, 660 nm, 810 nm, 880 nm, 920 nm, 950 nm, M10 x 1mm thread mounting</p>				
	ELJ-595-225B, 590 nm , 12 mW @ 100 mA, 15°, M10x1.5	25,00	26,50	12,50	10,10
	ELJ-640-225, 640 nm , 120 mW @ 100 mA, 15°, M10x1.5	25,00	26,50	12,50	10,10
	ELJ-640-228B, 640 nm , 45 mW @ 100 mA, 20°, M10x1.5	25,00	26,50	12,50	10,10
	ELJ-660-225B, 660 nm , 50 mW @ 100 mA, 20°, M10x1.5	25,00	26,50	12,50	10,10
	ELJ-810-228B, 810 nm , 225 mW @ 250 mA, 20°, M10x1.5	25,00	26,50	12,50	10,10
	ELJ-880-228B, 880 nm , 260 mW @ 250 mA, 20°, M10x1.5	25,00	26,50	12,50	10,10
	ELJ-920-228B, 920 nm , 260 mW @ 250 mA, 20°, M10x1.5	25,00	26,50	12,50	10,10
	ELJ-950-248B, 950 nm , 170 mW @ 250 mA, 40°, M10x1.5	25,00	26,50	12,50	10,10
	ELJ-950-228B, 950 nm , 170 mW @ 250 mA, 20°, M10x1.5	25,00	26,50	12,50	10,10
07	HIGH POWER LEDs with TO-66 package	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 <p>high power LED, TO-66 package with 60 chips inside, available wavelength range: 350 nm - 1550 nm, and white, with or without glass window cap</p>				
new	LED370-66-60-110, 370 nm , 60 mW @ 240 mA, TO-66, 60 chips, glass win	1.097,00	1.140,88	923,40	
new	LED375-66-60-110, 375 nm , 150 mW @ 200 mA, TO-66, 60 chips, glass wi	536,00	557,44	298,00	
new	LED385-66-60, 385 nm , 72 mW @ 240 mA, TO-66, 60 chips, si. res.	900,00	936,00	810,00	
new	LED385-66-60-110, 385 nm , 150 mW @ 240 mA, TO-66, 60 chips, glass	924,00	960,96	815,00	
new	LED395-66-60, 395 nm , 250 mW @ 240 mA, TO-66, 60 chips, si. res.	224,00	232,96	172,80	




new	LED395-66-60-110, 395 nm , 240 mW @ 240 mA, TO-66, 60 chips, glass wi	212,00	220,48	178,80	
new	LED405-66-60, 405 nm , 310 mW @ 240 mA, TO-66, 60 chips	143,70	149,45	96,37	86,00
new	LED405-66-60-110, 405 nm , 300 mW @ 240 mA, TO-66, 60 chips, glass wi	162,65	169,15	108,05	92,41
new	LED430-66-60, 430 nm , 36 cd @ 240 mA, TO-66, 60 chips, si. res.	101,00	105,04	74,34	58,80
new	LED430-66-60-110, 430 nm , 36 cd @ 240 mA, TO-66, 60 chips, glass	131,60	136,86	73,00	57,00
new	LED450-66-60, 450 nm , 80 mW @ 240 mA, TO-66, 60 chips	131,60	136,86	73,00	57,00
new	LED470-66-60, 470 nm , 18 cd @ 240 mA, TO-66, 60 chips	126,00	131,04	97,80	91,00
new	LEDW-47-66-60-120, white , 13 cd @ 240 mA, TO-66, window cap	164,80	171,39	118,00	93,90
new	LEDW-47-66-60, white , 13 cd @ 240 mA, TO-66, silicone resin	148,00	153,92	106,74	88,70
new	LED505-66-60, 505 nm , 80 mW @ 240 mA, TO-66, 60 chips	126,00	131,04	97,80	
new	LED525-66-60, 525 nm , 8 cd @ 240 mA, TO-66, 60 chips	126,00	131,04	97,80	91,00
new	LED590-66-60, 590 nm , 60 mW @ 240 mA, TO-66, 60 chips	81,00	84,24	50,61	40,33
new	LED620-66-60, 620 nm , 120 mW @ 240 mA, 6 cd, TO-66, 60 chips	57,00	59,28	45,00	42,30
new	LED630-66-60, 630 nm , 150 mW @ 240 mA, 6 cd, TO-66, 60 chips	57,00	59,28	45,00	42,30
new	LED660-66-60, 660 nm , 1.6 cd @ 240 mA, TO-66, 60 chips	71,23	74,08	47,00	33,80
new	LED690-66-60, 690 nm , 500 mW @ 240 mA, TO-66, 60 chips	71,23	74,08	47,00	33,80
new	LED740-66-60, 740 nm , 0.9 W @ 600 mA, TO-66, 60 chips	117,60	122,30	93,00	75,85
new	LED750-66-60, 750 nm , 0.8 W @ 600 mA, TO-66, 60 chips	117,60	122,30	93,00	75,85
new	LED760-66-60, 760 nm , 0.6 W @ 600 mA, TO-66, 60 chips	117,60	122,30	93,00	75,85
new	LED780-66-60, 780 nm , 1.0 W @ 600 mA, TO-66, 60 chips	126,00	131,04	96,00	87,00
new	LED810-66-60, 810 nm , xx W @ xx mA, TO-66, 60 chips	112,00	116,48	93,00	68,00
new	LED850-66-60, 850 nm , 1.5 W @ 800 mA, TO-66, 60 chips	96,00	99,84	69,00	53,00
new	LED870-66-60, 870 nm , 1.6 W @ 800 mA, TO-66, 60 chips	100,00	104,00	69,00	53,00
new	LED870-66-60-520, 870 nm , 0.95 W@0.8 A, TO-66, 60° lens cap	o.r.			
new	LED910-66-60, 910 nm , xxx mW @ xxx mA, TO-66, 60 chips	72,00	74,88	57,12	52,80
new	LED940-66-60, 940 nm , 1.2 W@0.8 A, 7Wpulse@5A, TO-66, 60 chips	61,95	64,43	39,60	31,27
new	LED940-66-60-520, 940 nm , 0.7 W @ 0.8 A, TO-66, 60° lens cap	o.r.			
new	LED950-66-60, 950 nm , xxx m W @ xxx mA, TO-66, 60 chips	63,20	65,73	40,20	32,00
new	LED970-66-60, 970 nm , 480 mW @ 600 mA, TO-66, 60 chips	99,00	102,96	78,80	72,90
new	LED1050-66-60, 1050 nm , 150 mW @ 600 mA, TO-66, 60 chips	1.155,00	1.201,20	891,00	
new	LED1200-66-60, 1200 nm , xxx mW @ xxx mA, TO-66, 60 chips	560,00	582,40	360,00	300,00
new	LED1300-66-60, 1300 nm , xxx mW @ xxx mA, TO-66, 60 chips	o.r.			
new	LED1450-66-60, 1450 nm , xxx mW @ xxx mA, TO-66, 60 chips	o.r.			
new	LED1550-66-60, 1550 nm , 60 mW @ 600 mA, TO-66, 60 chips	520,00	540,80	340,00	262,00
	further wavelengths available on request!				
07	ACCESSORIES FOR HIGH POWER LEDs in TO-66 PACKAGE	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 high power LED module with black aluminium heat sink and glass lens, optional with cooling fan and AC current driver				
new	Heat Sink 47x20 for TO-66, black aluminium, 47.5 x 20 mm, 54 g	8,80	9,33	6,50	5,75
new	Heat Sink 47x10 for TO-66, black aluminium, 47.5 x 10 mm, 27 g	5,80	6,15	4,10	3,10
new	Thermal Grease, ST-700 10% AgOx, TC: >7.5 W/mK, 1 g	1,20	1,27	0,99	0,80
	 aspheric glass LED optic, 18 mm or 12 mm diameter, compatible with TO-66 high power LED package				
new	LED-Optic-18 , aspheric glass lens, 18 mm for TO-66 LED, f=13.5 mm	16,40	17,38	13,80	13,10
new	LED-Optic-12 , aspheric glass lens, 12 mm for TO-66 LED, f=12.0 mm	16,40	17,38	13,80	13,10
	 cooling fan, compatible with TO-66 high power LED heat sink				
new	Cooling Fan for TO-66 Heat Sink, round, 12VDC, 0.1A, double ball bearing	4,80	5,09	4,20	3,50


	 <p>LED current driver for high power LEDs</p> <p>European and US versions available!</p>				
new	LED current driver 12W/0.35A , in: 207-253 VAC, out: 2.6 - 32.8 VDC	42,00	42,00	37,50	31,00
new	LED current driver 17W/0.75A , in: 207-253 VAC, out: 7.8 - 24.6 VDC	42,00	42,00	37,50	31,00
new	LED US current driver 12W/0.35A , in: 108-132 VAC, out: 2.6-32.8 VDC	42,00	42,00	37,50	31,00
new	LED US current driver 17W/0.75A , in: 108-132 VAC, out: 7.8-24.6 VDC	42,00	42,00	37,50	31,00
07	HIGH POWER LINEAR LED ARRAYS	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 <p>high power LED arrays for illumination purposes</p>				
	ELA-660-22x60, 660 nm , 2 x 10 emitters, 22 x 60 mm ² , 75 mW	87,00	92,22	76,50	
	ELA-810-22x60, 810 nm , 2 x 10 emitters, 22 x 60 mm ² , 1 W	87,00	92,22	76,50	
	ELA-880-22x60, 880 nm , 2 x 10 emitters, 22 x 60 mm ² , 1 W	87,00	92,22	76,50	
	ELA-920-22x60, 920 nm , 2 x 10 emitters, 22 x 60 mm ² , 1 W	87,00	92,22	76,50	
07	MID-IR LEDs TO-18 PACKAGE	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 <p>MID-IR LEDs in TO-18 package, optional in TO-5 package with parabolic reflector or with TE-cooler</p> <p>chip die available on request</p>				
	LED16, 1.6 μm , 1 mW @ 80 mA	85,80	90,95	50,40	26,60
	LED17, 1.7 μm , 1 mW @ 80 mA	96,80	102,61	63,00	28,50
	LED18, 1.8 μm , 1 mW @ 80 mA	85,80	90,95	50,40	26,60
	LED19, 1.9 μm , 1 mW @ 80 mA	85,80	90,95	63,00	26,60
	LED20, 2.0 μm , 1 mW @ 80 mA	96,80	102,61	63,00	28,50
	LED21, 2.1 μm , 1 mW @ 80 mA	96,80	102,61	63,00	28,50
	LED22, 2.2 μm , 0.75 mW @ 80 mA	96,80	102,61	63,00	28,50
	LED23, 2.3 μm , 0.75 mW @ 80 mA	96,80	102,61	63,00	28,50
	LED27, 2.7 μm , 0.02 mW @ 50 mA	96,80	102,61	63,00	28,50
	LED29, 2.9 μm , 0.02 mW @ 50 mA	96,80	102,61	63,00	28,50
	LED31, 3.1 μm , 0.05 mW @ 50 mA	96,80	102,61	63,00	28,50
	LED33, 3.3 μm , 0.05 mW @ 50 mA	96,80	102,61	63,00	28,50
	LED36, 3.6 μm , 0.045 mW @ 50 mA	96,80	102,61	63,00	28,50
	LED38, 3.8 μm , 0.04 mW @ 50 mA	96,80	102,61	63,00	28,50
	LED43, 4.3 μm , 0.015 mW @ 50 mA	121,00	128,26	81,90	32,30
	LED46, 4.6 μm , 0.01 mW @ 50 mA	121,00	128,26	81,90	32,30
	LED QCW pulsed driver	105,60	111,94	84,00	57,00
07	MID-IR LEDs TO-18 with parabolic reflector (PR)	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 <p>MID-IR LEDs in TO-18 package, with parabolic reflector</p>				
	LED16-PR, 1.6 μm , 1 mW @ 80 mA, parabolic reflector	95,70	101,44	56,70	28,50
	LED17-PR, 1.7 μm , 1 mW @ 80 mA, parabolic reflector	106,70	113,10	69,30	30,40
	LED18-PR, 1.8 μm , 1 mW @ 80 mA, parabolic reflector	95,70	101,44	56,70	28,50
	LED19-PR, 1.9 μm , 1 mW @ 80 mA, parabolic reflector	95,70	101,44	69,30	28,50
	LED20-PR, 2.0 μm , 1 mW @ 80 mA, parabolic reflector	106,70	113,10	69,30	30,40
	LED21-PR, 2.1 μm , 1 mW @ 80 mA, parabolic reflector	106,70	113,10	69,30	30,40
	LED22-PR, 2.2 μm , 0.75 mW @ 80 mA, parabolic reflector	106,70	113,10	69,30	30,40
	LED23-PR, 2.3 μm , 0.75 mW @ 80 mA, parabolic reflector	106,70	113,10	69,30	30,40
	LED27-PR, 2.7 μm , 0.02 mW @ 50 mA, parabolic reflector	106,70	113,10	69,30	30,40

	LED29-PR, 2.9 μm , 0.02 mW @ 50 mA, parabolic reflector	106,70	113,10	69,30	30,40
	LED31-PR, 3.1 μm , 0.05 mW @ 50 mA, parabolic reflector	106,70	113,10	69,30	30,40
	LED33-PR, 3.3 μm , 0.05 mW @ 50 mA, parabolic reflector	106,70	113,10	69,30	30,40
	LED36-PR, 3.6 μm , 0.045 mW @ 50 mA, parabolic reflector	106,70	113,10	69,30	30,40
	LED38-PR, 3.8 μm , 0.04 mW @ 50 mA, parabolic reflector	106,70	113,10	69,30	30,40
	LED43-PR, 4.3 μm , 0.015 mW @ 50 mA, parabolic reflector	130,90	138,75	88,20	34,20
	LED46-PR, 4.6 μm , 0.01 mW @ 50 mA, parabolic reflector	130,90	138,75	88,20	34,20
	LED QCW pulsed driver	105,60	111,94	84,00	57,00
07	MID-IR LEDs TO-18 with parabolic reflector & window (PR-WIN)	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 <p>MID-IR LEDs in TO-18 package, with parabolic reflector</p>				
	LED16-PR-WIN, 1.6 μm , 1 mW @ 80 mA, parabolic reflector, window	111,10	117,77	69,30	36,10
	LED17-PR-WIN, 1.7 μm , 1 mW @ 80 mA, parabolic reflector, window	122,10	129,43	81,90	38,00
	LED18-PR-WIN, 1.8 μm , 1 mW @ 80 mA, parabolic reflector, window	111,10	117,77	69,30	36,10
	LED19-PR-WIN, 1.9 μm , 1 mW @ 80 mA, parabolic reflector, window	111,10	117,77	81,90	36,10
	LED20-PR-WIN, 2.0 μm , 1 mW @ 80 mA, parabolic reflector, window	122,10	129,43	81,90	38,00
	LED21-PR-WIN, 2.1 μm , 1 mW @ 80 mA, parabolic reflector, window	122,10	129,43	81,90	38,00
	LED22-PR-WIN, 2.2 μm , 0.75 mW @ 80 mA, parabolic reflector, window	122,10	129,43	81,90	38,00
	LED23-PR-WIN, 2.3 μm , 0.75 mW @ 80 mA, parabolic reflector, window	122,10	129,43	81,90	38,00
	LED27-PR-WIN, 2.7 μm , 0.02 mW @ 50 mA, parabolic reflector, window	122,10	129,43	81,90	38,00
	LED29-PR-WIN, 2.9 μm , 0.02 mW @ 50 mA, parabolic reflector, window	122,10	129,43	81,90	38,00
	LED31-PR-WIN, 3.1 μm , 0.05 mW @ 50 mA, parabolic reflector, window	122,10	129,43	81,90	38,00
	LED33-PR-WIN, 3.3 μm , 0.05 mW @ 50 mA, parabolic reflector, window	122,10	129,43	81,90	38,00
	LED36-PR-WIN, 3.6 μm , 0.045 mW @ 50 mA, parabolic reflector, window	122,10	129,43	81,90	38,00
	LED38-PR-WIN, 3.8 μm , 0.04 mW @ 50 mA, parabolic reflector, window	122,10	129,43	81,90	38,00
	LED43-PR-WIN, 4.3 μm , 0.015 mW @ 50 mA, parabolic reflector, window	184,80	195,89	136,50	76,00
	LED46-PR-WIN, 4.6 μm , 0.01 mW @ 50 mA, parabolic reflector, window	184,80	195,89	136,50	76,00
	LED50-PR-WIN, 5.0 μm , 0.01 mW @ 50 mA, parabolic reflector, window	222,00	235,32	146,00	84,00
	LED QCW pulsed driver	105,60	111,94	84,00	57,00
07	MID-IR LEDs TO-5 with thermoelectric cooler (TEC)	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 <p>MID-IR LEDs in TO-5 package, with thermoelectric cooler (TEC)</p>				
	LED16-TEC, 1.6 μm , 1 mW @ 80 mA, thermoelectric cooler	209,00	221,54	126,00	64,60
	LED17-TEC, 1.7 μm , 1 mW @ 80 mA, thermoelectric cooler	209,00	221,54	126,00	64,60
	LED18-TEC, 1.8 μm , 1 mW @ 80 mA, thermoelectric cooler	209,00	221,54	126,00	64,60
	LED19-TEC, 1.9 μm , 1 mW @ 80 mA, thermoelectric cooler	209,00	221,54	126,00	64,60
	LED20-TEC, 2.0 μm , 1 mW @ 80 mA, thermoelectric cooler	209,00	221,54	126,00	64,60
	LED21-TEC, 2.1 μm , 1 mW @ 80 mA, thermoelectric cooler	209,00	221,54	126,00	64,60
	LED22-TEC, 2.2 μm , 0.75 mW @ 80 mA, thermoelectric cooler	209,00	221,54	126,00	64,60
	LED23-TEC, 2.3 μm , 0.75 mW @ 80 mA, thermoelectric cooler	209,00	221,54	126,00	64,60
	LED27-TEC, 2.7 μm , 0.02 mW @ 50 mA, thermoelectric cooler	209,00	221,54	126,00	64,60
	LED29-TEC, 2.9 μm , 0.02 mW @ 50 mA, thermoelectric cooler	209,00	221,54	126,00	64,60
	LED31-TEC, 3.1 μm , 0.05 mW @ 50 mA, thermoelectric cooler	209,00	221,54	126,00	64,60
	LED33-TEC, 3.3 μm , 0.05 mW @ 50 mA, thermoelectric cooler	209,00	221,54	126,00	64,60
	LED36-TEC, 3.6 μm , 0.045 mW @ 50 mA, thermoelectric cooler	209,00	221,54	126,00	64,60
	LED38-TEC, 3.8 μm , 0.04 mW @ 50 mA, thermoelectric cooler	209,00	221,54	126,00	64,60
	LED43-TEC, 4.3 μm , 0.015 mW @ 50 mA, thermoelectric cooler	291,50	308,99	178,50	102,60
	LED46-TEC, 4.6 μm , 0.01 mW @ 50 mA, thermoelectric cooler	291,50	308,99	178,50	102,60
	LED QCW pulsed driver	105,60	111,94	84,00	57,00
07	MID-IR LEDs with parabolic reflector and cooler (TEC-PR)	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+

	MID-IR LEDs in TO-5 package, with parabolic reflector (PR) and thermoelectric cooler (TEC)				
	LED16-TEC-PR, 1.6 µm, 1 mW @ 80 mA, parabolic reflector, TEC	218,90	232,03	132,30	66,50
	LED17-TEC-PR, 1.7 µm, 1 mW @ 80 mA, parabolic reflector, TEC	218,90	232,03	132,30	66,50
	LED18-TEC-PR, 1.8 µm, 1 mW @ 80 mA, parabolic reflector, TEC	218,90	232,03	132,30	66,50
	LED19-TEC-PR, 1.9 µm, 1 mW @ 80 mA, parabolic reflector, TEC	218,90	232,03	132,30	66,50
	LED20-TEC-PR, 2.0 µm, 1 mW @ 80 mA, parabolic reflector, TEC	218,90	232,03	132,30	66,50
	LED21-TEC-PR, 2.1 µm, 1 mW @ 80 mA, parabolic reflector, TEC	218,90	232,03	132,30	66,50
	LED22-TEC-PR, 2.2 µm, 0.75 mW @ 80 mA, parabolic reflector, TEC	218,90	232,03	132,30	66,50
	LED23-TEC-PR, 2.3 µm, 0.75 mW @ 80 mA, parabolic reflector, TEC	218,90	232,03	132,30	66,50
	LED27-TEC-PR, 2.7 µm, 0.02 mW @ 50 mA, parabolic reflector, TEC	218,90	232,03	132,30	66,50
	LED29-TEC-PR, 2.9 µm, 0.02 mW @ 50 mA, parabolic reflector, TEC	218,90	232,03	132,30	66,50
	LED31-TEC-PR, 3.1 µm, 0.05 mW @ 50 mA, parabolic reflector, TEC	218,90	232,03	132,30	66,50
	LED33-TEC-PR, 3.3 µm, 0.05 mW @ 50 mA, parabolic reflector, TEC	218,90	232,03	132,30	66,50
	LED36-TEC-PR, 3.6 µm, 0.045 mW @ 50 mA, parabolic reflector, TEC	218,90	232,03	132,30	66,50
	LED38-TEC-PR, 3.8 µm, 0.04 mW @ 50 mA, parabolic reflector, TEC	218,90	232,03	132,30	66,50
	LED43-TEC-PR, 4.3 µm, 0.015 mW @ 50 mA, parabolic reflector, TEC	301,40	319,48	184,80	104,50
	LED46-TEC-PR, 4.6 µm, 0.006 mW @ 200 mA, parabolic reflector, TEC	301,40	319,48	184,80	104,50
	LED50-TEC-PR, 5.0 µm, 0.001 mW @ 200 mA, parabolic reflector, TEC	301,40	319,48	184,80	104,50
	LED QCW pulsed driver	105,60	111,94	84,00	57,00
04	MID-IR PHOTODIODES TO-18	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	MID-IR photodiodes in TO-18 package, chip die available on request				
	PD24-02, 1.2 - 2.4 µm, 0.2 mm, TO-18	92,00	97,52	46,20	30,00
	PD24-05, 1.2 - 2.4 µm, 0.5 mm, TO-18	149,50	158,47	73,50	50,00
	PD24-10, 1.2 - 2.4 µm, 1.0 mm, TO-18	253,00	268,18	147,00	100,00
	PD24-20, 1.2 - 2.4 µm, 2.0 mm, TO-18	460,00	487,60	252,00	160,00
	PD25-02, 1.3 - 2.5 µm, 0.2 mm, TO-18	103,50	109,71	56,70	36,00
	PD25-05, 1.3 - 2.5 µm, 0.5 mm, TO-18	161,00	170,66	96,60	70,00
	PD25-10, 1.3 - 2.5 µm, 1.0 mm, TO-18	276,00	292,56	168,00	120,00
	PD25-20, 1.3 - 2.5 µm, 2.0 mm, TO-18	506,00	536,36	294,00	180,00
	PD36-02, 2.3 - 3.6 µm, 0.2 mm, TO-18	138,00	146,28	94,50	70,00
	PD36-03, 2.3 - 3.6 µm, 0.3 mm, TO-18	149,50	158,47	105,00	84,00
	PD36-05, 2.3 - 3.6 µm, 0.5 mm, TO-18	345,00	365,70	184,80	142,00
	AM-04, preamplifier for MID-IR photodiodes PDxx-yy	180,00	190,80		
04	MID-IR PHOTODIODES TO-18 with parabolic reflector	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	MID-IR photodiodes in TO-18 package with parabolic reflector, chip die available on request				
	PD24-02-PR, 1.2 - 2.4 µm, 0.2 mm, TO-18, parabolic reflector	101,20	107,27	52,50	32,00
	PD24-05-PR, 1.2 - 2.4 µm, 0.5 mm, TO-18, parabolic reflector	158,70	168,22	79,80	52,00
	PD24-10-PR, 1.2 - 2.4 µm, 1.0 mm, TO-18, parabolic reflector	262,20	277,93	153,30	104,00
	PD24-20-PR, 1.2 - 2.4 µm, 2.0 mm, TO-18, parabolic reflector	475,00	503,50	267,00	175,00
	PD25-02-PR, 1.3 - 2.5 µm, 0.2 mm, TO-18, parabolic reflector	112,70	119,46	63,00	40,00
	PD25-05-PR, 1.3 - 2.5 µm, 0.5 mm, TO-18, parabolic reflector	170,20	180,41	102,90	74,00
	PD25-10-PR, 1.3 - 2.5 µm, 1.0 mm, TO-18, parabolic reflector	285,20	302,31	174,30	124,00
	PD25-20-PR, 1.3 - 2.5 µm, 2.0 mm, TO-18, parabolic reflector	521,00	552,26	309,00	195,00
	PD36-02-PR, 2.3 - 3.6 µm, 0.2 mm, TO-18, parabolic reflector	147,20	156,03	100,80	74,00
	PD36-03-PR, 2.3 - 3.6 µm, 0.3 mm, TO-18, parabolic reflector	158,70	168,22	109,20	88,00
	PD36-05-PR, 2.3 - 3.6 µm, 0.5 mm, TO-18, parabolic reflector	356,50	377,89	189,00	144,00




	AM-04, preamplifier for MID-IR photodiodes PDxx-yy	180,00	190,80		
04	MID-IR PHOTODIODES TO-5 with thermoelectric cooler	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 <p>MID-IR photodiodes in TO-5 package with thermoelectric cooler (TEC)</p> <p>chip die available on request</p>				
	PD24-02-TEC, 1.2 - 2.4 μm , 0.2 mm, TO-18, parabolic reflector	250,00	265,00	132,00	70,00
	PD24-05-TEC, 1.2 - 2.4 μm , 0.5 mm, TO-18, parabolic reflector	400,00	424,00	192,00	110,00
	PD24-10-TEC, 1.2 - 2.4 μm , 1.0 mm, TO-18, parabolic reflector	500,00	530,00	232,00	150,00
	PD24-20-TEC, 1.2 - 2.4 μm , 2.0 mm, TO-18, parabolic reflector	600,00	636,00	292,00	190,00
	PD25-02-TEC, 1.3 - 2.5 μm , 0.2 mm, TO-18, parabolic reflector	260,00	275,60	136,00	72,00
	PD25-05-TEC, 1.3 - 2.5 μm , 0.5 mm, TO-18, parabolic reflector	416,00	440,96	198,00	112,00
	PD25-10-TEC, 1.3 - 2.5 μm , 1.0 mm, TO-18, parabolic reflector	520,00	551,20	240,00	154,00
	PD25-20-TEC, 1.3 - 2.5 μm , 2.0 mm, TO-18, parabolic reflector	640,00	678,40	302,00	194,00
	PD36-02-TEC, 2.3 - 3.6 μm , 0.2 mm, TO-18, parabolic reflector	260,00	275,60	168,00	92,00
	PD36-03-TEC, 2.3 - 3.6 μm , 0.3 mm, TO-18, parabolic reflector	280,00	296,80	188,00	112,00
	PD36-05-TEC, 2.3 - 3.6 μm , 0.5 mm, TO-18, parabolic reflector	400,00	424,00	228,00	172,00
	AM-04, preamplifier for MID-IR photodiodes PDxx-yy	180,00	190,80		
04	MID-IR PHOTODIODES with cooler and parabolic reflector	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 <p>MID-IR photodiodes with thermoelectric cooler (TEC) and parabolic reflector (PR)</p> <p>chip die available on request</p>				
	PD24-02-TEC-PR, 1.2 - 2.4 μm , 0.2 mm, TO-18, parabolic reflector	260,00	275,60	138,00	74,00
	PD24-05-TEC-PR, 1.2 - 2.4 μm , 0.5 mm, TO-18, parabolic reflector	410,00	434,60	198,00	114,00
	PD24-10-TEC-PR, 1.2 - 2.4 μm , 1.0 mm, TO-18, parabolic reflector	510,00	540,60	238,00	154,00
	PD24-20-TEC-PR, 1.2 - 2.4 μm , 2.0 mm, TO-18, parabolic reflector	610,00	646,60	298,00	194,00
	PD25-02-TEC-PR, 1.3 - 2.5 μm , 0.2 mm, TO-18, parabolic reflector	270,00	286,20	142,00	76,00
	PD25-05-TEC-PR, 1.3 - 2.5 μm , 0.5 mm, TO-18, parabolic reflector	426,00	451,56	204,00	116,00
	PD25-10-TEC-PR, 1.3 - 2.5 μm , 1.0 mm, TO-18, parabolic reflector	530,00	561,80	246,00	158,00
	PD25-20-TEC-PR, 1.3 - 2.5 μm , 2.0 mm, TO-18, parabolic reflector	650,00	689,00	308,00	198,00
	PD36-02-TEC-PR, 2.3 - 3.6 μm , 0.2 mm, TO-18, parabolic reflector	270,00	286,20	174,00	96,00
	PD36-03-TEC-PR, 2.3 - 3.6 μm , 0.3 mm, TO-18, parabolic reflector	290,00	307,40	194,00	116,00
	PD36-05-TEC-PR, 2.3 - 3.6 μm , 0.5 mm, TO-18, parabolic reflector	410,00	434,60	234,00	176,00
	AM-04, preamplifier for MID-IR photodiodes PDxx-yy	180,00	190,80		
04	UV-PHOTODIODES based on GaP	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 <p>UV-photodiodes based on GaP</p>				
	EPD-440-0/0.9, TO-46, 190-550 nm, 1 mm	29,00	30,74	17,00	10,20
	EPD-365-0/0.9, TO-46, 245-405 nm, 1 mm, UG11	33,00	34,98	21,00	12,47
	EPD-440-0/1.4, TO-46, 190-550 nm, 1.4 mm	47,00	49,82	20,00	12,00
	EPD-365-0/1.4, TO-46, 245-405 nm, 1.4 mm, UG11	48,00	50,88	21,00	15,00
	EPD-440-0/2.5, TO-39, 190-550 nm, 2.5 mm	64,00	67,84	27,00	20,00
	EPD-365-0/2.5, TO-39, 245-405 nm, 2.5 mm, UG11	65,00	68,90	29,00	21,00
	EPD-440-0/3.6, TO-39, 190-550 nm, 3.6 mm	99,00	104,94	50,00	35,00
	EPD-365-0/3.6, TO-39, 245-405 nm, 3.6 mm, UG11	99,00	104,94	52,00	40,00
	EPD-150-0/2.5, TO-39, sapphire window	83,00	87,98	36,00	27,00
	EPD-150-0/3.6, TO-39, sapphire window	112,00	118,72	56,00	21,82
04	UV-PHOTODIODES (THIN FILM SENSOR)	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+

		UV-photodiodes based on thin film sensor technology				
new	UVD39, TO-39, 225-380 nm, peak @ 300 nm, intrinsic visible blind		24,61	26,09	19,00	16,00
new	UVD18, TO-18, 225-380 nm, peak @ 300 nm, intrinsic visible blind		19,50	20,67	14,00	13,00
new	UV30DZ, TO-46, 253-361 nm, peak @ 300 nm, intrinsic visible blind		25,35	26,87	20,00	18,00
new	UV-sensor chip die 4.4 mm ² thin film sensor		8,60	9,12	7,90	6,38
new	UV-sensor chip die 15.66 mm ² thin film sensor		11,60	12,30	10,70	8,67
04	PHOTODIODES SILICON		\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
		silicon photodiodes diverse packages				
	SSO-PD-100-4 1" BNC		118,65	125,76	65,59	38,28
	SSO-PD-100-4 U1		105,17	111,48	57,81	33,74
	SSO-PD-100-6 1" BNC		110,29	116,91	60,77	35,47
	SSO-PD-100-6 U1		96,23	102,01	52,66	30,73
	SSO-PD-100-7 1" BNC		149,41	158,38	83,35	48,65
	SSO-PD-100-7 U1		137,30	145,54	76,36	44,57
	SSO-PD-100-7-RG5 U1		155,66	165,00	86,95	50,75
	SSO-PD-50-4 1" BNC		95,92	101,67	52,47	30,63
	SSO-PD-50-4 U1		80,86	85,72	43,79	25,56
	SSO-PD-50-5 TO8S		85,74	90,88	46,60	27,20
	SSO-PD-50-6 1" BNC		91,59	97,09	49,98	29,17
	SSO-PD-50-6 U1		76,22	80,80	41,11	23,99
	SSO-PD-50-6 U1-RG5		94,93	100,62	51,90	30,29
	SSO-PD-50-6 TO8S		77,32	81,96	41,74	24,36
	SSO-PD-50-7 1" BNC		113,09	119,88	62,39	36,41
	SSO-PD-50-7 U1		98,43	104,34	53,93	31,48
	SSO-PD-50-7 U1-RG5		116,82	123,83	64,54	37,67
	SSO-PD-50-7 TO8S		88,51	93,82	48,20	28,13
	SSO-PDH-50-7 TO8S		88,51	93,82	48,20	28,13
	SSO-PD-20-6 TO8		49,70	52,69	25,80	15,06
	SSO-PD-20-7 TO8		58,86	62,39	31,08	18,14
	SSO-PD-10-6 TO5		29,11	30,86	13,92	8,12
	SSO-PD-10-7 TO5		33,90	35,93	16,68	9,73
	SSO-PD-10-9 TO5		35,25	37,37	17,46	10,19
	SSO-PD-5-6 TO5		26,61	28,21	12,47	7,28
	SSO-PD-5-6 TO5-i		34,37	36,43	16,95	9,89
	SSO-PD-5-7 TO5		29,55	31,33	14,17	8,27
	SSO-PD-5-7 TO5-i		37,59	39,85	18,81	10,98
	SSO-PD-2-6 TO5		24,99	26,49	11,54	6,73
	SSO-PD-2-7 TO5		26,75	28,36	12,56	7,33
	SSO-PD-1,5-7 TO5		29,65	31,43	14,23	8,30
04	PHOTODIODES SILICON		\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
		silicon photodiode with BNC connector				
	SSO-PD-1,5-7 TO5i		40,34	42,76	20,40	11,91
	SSO-PD-1-6 TO18		25,21	26,73	11,67	6,81
	SSO-PD-1-6 TO52		25,21	26,73	11,67	6,81
	SSO-PD-1-7 TO18		26,53	28,13	12,43	7,25
	SSO-PD-1-7 TO52		26,53	28,13	12,43	7,25



SSO-PD-Q-100-4 1" BNC	107,56	114,01	59,19	34,55
SSO-PD-Q-100-4 U1	93,32	98,92	50,98	29,75
SSO-PD-Q-100-6 1" BNC	104,74	111,03	57,57	33,60
SSO-PD-Q-100-6 U1	86,48	91,67	47,03	27,45
SSO-PS-100-6 Ker 1017	119,17	126,32	65,89	38,46
SSO-PD-Q-100-7 1" BNC	131,70	139,60	73,13	42,68
SSO-PD-Q-100-7 U1	118,35	125,45	65,42	38,18
SSO-PS-100-7 Ker 1017	137,42	145,67	76,43	44,61
SSO-PD-S-33-4 TO8	54,15	57,40	28,37	16,56
SSO-PD-S-33-4 1" BNC	86,67	91,87	47,14	27,51
SSO-PD-S-33-6 TO8	52,94	56,12	27,67	16,15
SSO-PD-Q-11.9-5 TO5	29,76	31,54	14,29	8,34
SSO-PD-Q-7-6 TO5	26,61	28,21	12,47	7,28
SSO-PD-Q-3.6-5 TO5	26,33	27,91	12,31	7,19
SSO-PD-Q-3.6-6 TO5	25,13	26,64	11,62	6,78
SSO-PD-Q-1.0-5 TO18	25,31	26,83	11,72	6,84
SSO-PD-Q-1.0-5 TO52i	31,42	33,31	15,25	8,90
SSO-PD-Q-1.0-6 TO18	24,99	26,49	11,54	6,73
SSO-PD-Q-0.25-5 TO18	25,59	27,13	11,88	6,94
SSO-PD-Q-0.25-5 TO52	24,01	25,45	10,97	6,40
SSO-PD-Q-0.25-5 SMD	9,58	10,15	2,64	1,54
SSO-PD-Q-0.25-5 TO18-i	32,45	34,39	15,84	9,25
SSO-PD-Q-0.25-5 TO52-i	33,63	35,65	16,52	9,64
SSO-PD-S-80-7 Ker(12V)	97,65	103,51	53,47	31,21
SSO-PD-S-200-7 Ker(12V)	160,05	169,65	89,49	52,23
SSO-PDH-S-200-7 Ker(80V)	198,80	210,73	111,86	65,29
04 PHOTODIODES SILICON	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
 wavelength sensitive duolateral photodiode (WS-type)				
SSO-BL-100-2 1" BNC	197,36	209,20	111,02	64,80
SSO-BL-100-2 U1	163,00	172,78	91,19	53,23
SSO-BL-50-2 1" BNC	133,64	141,65	74,24	43,33
SSO-BL-50-2 U1	119,04	126,18	65,82	38,42
SSO-BL-S-33-2 1" BNC	111,25	117,93	61,33	35,79
SSO-BL-S-33-2 U1	96,66	102,46	52,90	30,88
SSO-BL-S-33-2 TO8	76,29	80,86	41,14	24,01
SSO-BL-20-2 TO8	60,34	63,96	31,94	18,64
SSO-BL-10-2 TO5	39,97	42,36	20,18	11,78
SSO-PS-100-2 Ker1017	170,72	180,96	95,65	55,83
SSO-BL-Q-20-2 TO8	54,67	57,95	28,67	16,73
SSO-BL-Q-20-2 SMD	41,51	44,00	21,07	12,30
SSO-BL-Q-7.56-2 TO5	34,74	36,83	17,17	10,02
SSO-BL-5-2 TO5	34,74	36,83	17,17	10,02
SSO-BL-2-2 TO5	31,36	33,24	15,22	8,88
SSO-BL-1-2 TO52	31,60	33,49	15,35	8,96
SSO-DP-3.22-6 TO5,plan	29,70	31,48	14,25	8,32
SSO-KP-.566-3 TO5	29,02	30,76	13,86	8,09
SSO-KP-.566-6 TO5	28,77	30,49	13,72	8,01
SSO-KP-6.28-3 TO5	34,16	36,21	16,83	9,82
SSO-KP-6.28-6 TO5	32,79	34,76	16,04	9,36
SSO-QP-100-6 U1	124,18	131,63	68,79	40,15
SSO-QP-100-7 U1	179,72	190,51	100,84	58,86
SSO-QP-50-6 U1	91,81	97,32	50,10	29,24
SSO-QP-50-6 TO8S	101,17	107,24	55,51	32,40
SSO-QP-20-3 U1	76,38	80,96	41,20	24,05
SSO-QP-20-6 TO8S	60,73	64,37	32,17	18,77
SSO-QP-20-6 U1	72,01	76,33	38,67	22,57




	SSO-QP-10-6 TO8S	53,40	56,60	27,93	16,30
	SSO-QP-5-6 TO5	38,25	40,55	19,19	11,20
04	PHOTODIODES SILICON quadrant detector series	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 <p>silicon quadrant photodiodes</p>				
	SSO-QP-2-6 TO5	35,96	38,11	17,87	10,43
	SSO-QP-1-6 TO5	35,09	37,20	17,37	10,14
	SSO-TL-100-4 U1/RG5	116,46	123,45	64,33	37,55
	SSO-TL-100-4 U1/BK7	113,53	120,35	62,64	36,56
	SSO-EL-3,5-6 SMD	19,27	20,42	8,23	4,81
	SSO-EL-3,5-7 SMD	19,27	20,42	8,23	4,81
	SSO-EL-6-7 SMD	21,52	22,81	9,53	5,56
	SSO-EL-6-7 Keramik	43,68	46,30	22,32	13,03
	SSO-EL-65-4 WD4L	108,86	115,39	59,95	34,99
	SSO-EL-140-4 WD4L	146,41	155,19	81,62	47,64
	SSO-DL-16-7 Keramik	125,69	133,23	69,66	40,66
	SSO-DL-100-7 Keramik	311,05	329,71	176,64	103,10
	SSO-DL-100-7 SMD	332,69	352,66	189,13	110,39
	SSO-DL-400-7 Keramik	1.156,83	1.226,24	664,80	388,03
	SSO-DL-400-7 SMD	5,00	5,30	0,00	0,00
	WS-7.56 (100 nA) TO5	33,91	35,95	16,69	9,74
	WS-7.56-i (20 nA) TO5-i	55,27	58,59	29,02	16,94
	SSO-AD-230 TO52-S3	86,32	91,50	46,94	27,40
	SSO-AD-230 TO52-i	103,89	110,13	57,08	33,31
	SSO-AD-230 TO52-Linse	90,77	96,22	49,51	28,90
	SSO-AD-230 TO52i-Linse	107,87	114,34	59,37	34,66
	SSO-AD-230 TO52-AR870	113,58	120,40	62,67	36,58
	SSO-AD-230 TO52-S1	98,94	104,87	54,22	31,65
	SSO-AD-230 SMD	5,00	5,30	0,00	0,00
	SSO-AD-230 TO52-NF (phase out!)	99,03	104,97	54,27	31,68
	SSO-AD-230 TO52 (phase out!)	86,32	91,50	46,94	27,40
	SSO-AD-500 TO52-S3	141,44	149,92	78,75	45,96
	SSO-AD-500 TO52-kl.Linse	141,44	149,92	78,75	45,96
	SSO-AD-500 TO52-i	150,22	159,23	83,81	48,92
	SSO-AD-500 TO5i-RG850	240,94	255,40	136,18	79,48
04	PHOTODIODES SILICON AD avalanche series	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 <p>silicon avalanche photodiodes</p>				
	SSO-AD-500 TO52i-Linse	153,63	162,85	85,78	50,07
	SSO-AD-500 TO52-S1	126,67	134,27	70,22	40,99
	SSO-AD-500 TO52-NF (phase out!)	126,78	134,38	70,29	41,02
	SSO-AD-500 TO52 (phase out!)	141,44	149,92	78,75	45,96
	SSO-ADH-230 TO52	106,66	113,06	58,67	34,25
	SSO-ADH-500 TO52	175,56	186,09	98,44	57,46
	SSO-ADH-230 TO52-i	116,26	123,23	64,21	37,48
	SSO-ADH-500 TO52-i	186,52	197,71	104,77	61,15
	SSO-AD-800 TO5-i	163,87	173,70	91,69	53,52
	SSO-AD-800-RG850 TO5-i	181,45	192,34	101,84	59,44
	SSO-AD-1100 TO5-i	185,04	196,14	103,91	60,65
	SSO-AD-1100 TO5-i-Linse	188,71	200,03	106,03	61,89
	SSO-AD-1900 TO5-i	308,99	327,53	175,45	102,41
	SSO-AD-2500 TO5-i	362,63	384,38	206,41	120,48
	SSO-AD-3000 TO5-i	434,15	460,20	247,69	144,57


SSO-AD-LA-10/0.08 Ker	470,86	499,11	268,88	156,94
SSO-AD-230-TO8P TO8	856,44	907,83	491,42	286,83
SSO-AD-500-TO8P TO8	905,19	959,50	519,56	303,25
SSO-AD-800-TO8P TO8	1.061,11	1.124,78	609,55	355,78
SSO-AD-1100-TO8P TO8	1.136,25	1.204,43	652,92	381,10
SSO-AD-1900-TO8P TO8	1.402,98	1.487,16	806,87	470,95
SSO-AD-2500-TO8P TO8	1.469,04	1.557,19	845,00	493,21
SSO-AD-230-Modul Theoptics	815,12	864,03	467,57	272,91
SSO-AD-500-Modul Theoptics	871,56	923,85	500,15	291,93
SSO-AD-800-Modul Theoptics	894,80	948,49	513,56	299,76
SSO-AD-1100-Modul Theoptics	914,73	969,62	525,07	306,47
SSO-AD-1900-Modul Theoptics	1.040,90	1.103,35	597,89	348,97
SSO-AD-2500-Modul Theoptics	1.094,00	1.159,64	628,54	366,86
04 Si-AVALANCHE PHOTODIODES	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
SPD-032, 0.4-1.1 µm, C30817 compatible	231,00	244,86	162,00	132,00
SPD-052, 0.4-1.1 µm, C30950E compatible	483,00	511,98	325,00	280,00
04 Ge-AVALANCHE PHOTODIODES	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
APD-GE-70, Ge, 1.4-1.6 µm, (40 V, 70 µm)	260,00	275,60		
APD-GE-150, Ge, 1.4-1.6 µm, (40 V, 150 µm)	260,00	275,60		
APD-GE-200, Ge, 1.4-1.6 µm, (40 V, 200 µm)	260,00	275,60		
04 WAVELENGTH SELECTIVE PHOTODIODES	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
EPD-470-0/0.9, blue selective photodiode, peak 470 nm	41,00	43,46	31,00	15,00
EPD-470-0/1.4, blue selective photodiode, peak 470 nm	47,00	49,82	37,00	19,00
EPD-470-1/0.9, blue selective photodiode, peak 470 nm	6,50	6,89	4,60	3,60
EPD-470-1/1.4, blue selective photodiode, peak 470 nm	15,00	15,90	11,00	8,50
EPD-550-0/0.9, green selective photodiode, peak 520 nm	41,00	43,46	31,00	15,00
EPD-550-0/1.4, green selective photodiode, peak 520 nm	47,00	49,82	37,00	19,00
EPD-550-1/0.5, green selective photodiode, peak 520 nm	3,50	3,71	2,60	1,70
EPD-550-1/0.9, green selective photodiode, peak 520 nm	6,50	6,89	4,60	3,60
EPD-550-1/1.4, green selective photodiode, peak 520 nm	15,00	15,90	11,00	8,50
EPD-550-5/0.5, green selective photodiode, peak 550 nm	15,00	15,90	11,00	8,50
EPD-660-1/0.4, red selective photodiode, peak 660 nm	6,00	6,36		
EPD-660-5/0.4, red selective photodiode, peak 660 nm	12,00	12,72		
EPD-660-1/0.5, red selective photodiode, peak 660 nm	7,00	7,42		
EPD-660-5/0.5, red selective photodiode, peak 660 nm	6,60	7,00	5,60	4,36
EPD-740-0/1.0, IR-selective photodiode, 718 - 763 nm	5,00	5,30		
EPD-740-1/0.4, IR-selective photodiode, 718 - 763 nm	5,00	5,30		
EPD-740-1/0.5, IR-selective photodiode, 718 - 763 nm	6,00	6,36		
EPD-740-5/0.4, IR-selective photodiode, 718 - 763 nm	5,60	5,94	4,60	3,70
EPD-740-5/0.5, IR-selective photodiode, 718 - 763 nm	13,00	13,78		
EPD-850-1/0.4, IR-selective photodiode, 795 - 870 nm	5,00	5,30		
EPD-850-1/0.5, IR-selective photodiode, 795 - 870 nm	6,00	6,36		
EPD-850-5/0.4, IR-selective photodiode, 795 - 870 nm	12,00	12,72		
EPD-850-5/0.5, IR-selective photodiode, 795 - 870 nm	13,00	13,78		
04 GaAs & InGaAs PHOTODIODES	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
chips:				
TPD-8D12, GaAs PIN photodiode, chip die	11,00	11,66	8,30	6,10
TPD-1C12, InGaAs PIN photodiode, chip die	11,00	11,66	8,30	6,10
diverse packages:				
PD1450-35T52, InGaAs PIN, 0.12mm ² , 1.0-1.6 µm, TO-18, tr:10ns, tf:5ns	17,00	17,00	15,00	13,00
PD500p, InGaAs, 1.0 - 1.65 µm, diameter 0.5 mm, TO-18, flat window	80,00	84,80		
TMC-5A41-1	22,00	23,32		
TMC-8D31, GaAsPIN PD, high speed, TO-46, caplens	17,00	18,02		
TMC-8D41, GaAsPIN/TIA PD, 125 MHz, TO-46, caplens	22,00	23,32		
TMC-8D42, GaAsPIN/TIA PD, 1.25 Ghz, TO-46, caplens	31,00	32,86		
TMC-8D43, GaAsPIN PD, 2.5 GHz, TO-46, caplens	37,50	39,75		
TMC-1C31-000, InGaAsPIN PD, high speed, TO-46, caplens	20,00	21,20	16,20	14,90
TMC-1C41-006, InGaAsPIN/TIA PD, 155 MHz, TO-46, caplens	23,00	24,38	18,63	17,25
TMC-1C42, InGaAsPIN/TIA PD, 1.25 Ghz, TO-46, caplens	31,00	32,86		
TMC-1C43, InGaAsPIN PD, 2.5 GHz, TO-46, caplens	37,50	39,75		
TRR-1A33, InGaAsPIN, >1.5 GHz, metal ST-receptacle	30,00	31,80		

	TRR-8A33, GaAsPIN, >1.5 GHz, metal ST-receptacle	28,00	29,68		
	TRR-8D43, GaAsPIN/TIA, 10/100/155 Mbps, SC	34,00	36,04		
	TRR-8B43, GaAsPIN/TIA, 10/100/155 Mbps, ST	34,00	36,04		
	TRR-8D43-x1, GaAsPIN/TIA, up to 2.5 Gbps, ST	40,00	42,40		
	R-11-075-G-B, tr/tf <0.3 ns, TO-46, b/c	51,00	54,06		
	R-11-300-G-B, tr/tf <2ns, TO-46, b/c	44,00	46,64		
	R-11-075-P-SFC, tr/tf <0.3 ns, pig, FC/PC	132,00	139,92		
	R-11-075-P-SST, tr/tf <0.3 ns, pig, ST/PC	132,00	139,92		
	R-11-075-P-SSC, tr/tf <0.3 ns, pig, SC/PC	132,00	139,92		
	R-11-075-R-SFC, tr/tf <0.3 ns, rec, FC/PC	114,00	120,84		
04	THERMOPILE DETECTORS	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 <p>thermopile detectors and sensors</p>				
	OTC236-11	11,00	11,66	9,00	5,80
	OTC236-12	11,00	11,66	9,00	5,80
	OTC237-11	11,00	11,66	9,00	5,80
	OTC237-12	11,00	11,66	9,00	5,80
	TP336A	11,00	11,66	9,00	5,80
	TP336E	11,00	11,66	9,00	5,80
	TP337A	11,00	11,66	9,00	5,80
	TP337E	11,00	11,66	9,00	5,80
	TP339U	11,00	11,66	9,00	5,80
	TP339UG	11,00	11,66	9,00	5,80
	TP297A	11,00	11,66	9,00	5,80
	TM158N, Tmax:150°C, FOV = 8:1, analog module	49,00	51,94	45,00	29,16
	TM358N, Tmax:350°C, FOV = 8:1, analog module	49,00	51,94	45,00	29,16
04	INFRARED THERMOMETERS (THERMOPILE DETECTOR)	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 <p>series 350 infrared thermometer with thermopile detector and aiming laser beam, backlit LCD display</p>				
new	CENTER 350 , resolution: 0.5 °C, -20..500°C, field of view: 8:1	76,00	76,00	67,00	
new	CENTER 352 , resolution: 0.1 °C, -20-500°C, field of view: 12:1	120,00	120,00	105,00	
	 <p>TN1 miniature infrared thermometer with thermopile detector size: 68 x 36.5 x 18 mm³</p>				
new	TN1 , miniature IR-thermometer: 0.1 °C, -22-110°C, field of view: 1:1	32,00	32,00	29,00	21,00
08	LASER CRYSTALS	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	Nd:YAG rod, Nd 0.8%,1.0% or 1.1%				
	AR@1064 nm for lamp pumped lasers				
	4.0 mm x 50.0 mm	330,00	349,80		
	4.0 mm x 80.0 mm	580,00	614,80		
	4.0 x 110.0 mm	980,00	1.038,80		
	6.35 x 102.0 mm	1.250,00	1.325,00		
	6.35 x 152.0 mm	2.300,00	2.438,00		
	5.0 x 103.0 mm, polished convex or concave	1.200,00	1.272,00		
	5.0 x 127.0 mm, polished convex or concave	1.500,00	1.590,00		
	6.0 x 103.0 mm, polished convex or concave	1.400,00	1.484,00		
	6.0 x 127.0 mm, polished convex or concave	1.500,00	1.590,00		
	Nd:YAG rods for diode pumped lasers HR @ 1064 nm /				
	AR @ 808 nm at one end and AR @ 1064 nm at the other end				
	2.0 mm x 5.0 mm	298,00	315,88		

4.0 mm x 7.0 mm	288,00	305,28		
3.0 mm x 10.0 mm	298,00	315,88		
5.0 mm x 8.0 mm	288,00	305,28		
3.0 x 5.0 mm, flat/convex face polished	340,00	360,40		
8.0 mm x 10.0 mm	500,00	530,00		
Nd:YVO4, 3 x 3 x 1.2 mm ³ , Nd 2%, side 1: AR 808 nm, HR 1064 nm, side 2: AR 1064 nm				
3 x 3 x 1.2 mm ³	99,00	104,94		
Nd:YVO4 rod 1.0% Nd, a-cut, AR coated on both sides				
3.0 mm x 5.0 mm	500,00	530,00		
Ruby, flat/flat, 0.05% Cr				
6.35 mm x 65.0 mm	1.150,00	1.219,00		
08 NONLINEAR OPTICAL CRYSTALS	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
KTP 5.0 x 5.0 x 25.0 mm ³ , x-cut, ARC	1.300,00	1.378,00		
KTP 2.0 x 2.0 x 5.0 mm ³ , ARC for SHG	50,00	53,00		
LBO type1, 2.0 x 2.0 x 10.0 mm ³ , ARC for SHG	400,00	424,00		
LBO type1, 4.0 x 4.0 x 12.0 mm ³ , ARC for SHG	1.300,00	1.378,00		
LBO type2, 4.0 x 4.0 x 12.0 mm ³ , ARC for THG	1.350,00	1.431,00		
LBO 3.0 x 3.0 x 5.0 mm ³ , ARC for SHG	300,00	318,00		
LBO 4.0 x 4.0 x 18.0 mm ³ , ARC for SHG	2.000,00	2.120,00		
BBO 4.0 x 4.0 x 7.0 mm ³ , ARC for SHG	500,00	530,00		
BBO 8.0 x 8.0 x 0.5 mm ³ , ARC for SHG	850,00	901,00		
BBO 8.0 x 4.0 x 5.0 mm ³ , ARC for SHG	600,00	636,00		
DKDP 14.0 x 14.0 x 30.0 mm ³	1.300,00	1.378,00		
LiNbO3, 9.0 x 9.0 x 12.0 mm ³	310,00	328,60		
LiNbO3, x-cut, 3" wafer	80,00	84,80		
02 LASER OPTICAL COMPONENTS	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
BK-7 glass coupler 13.0 mm x 5.3 mm	27,00	28,62		
BK-7 mirror 1.0" x 0.25", fl/fl, HR 1064 nm	18,00	19,08		
BK-7 mirror 1.0" x 0.25", fl/convex R=0.5 m	30,00	31,80		
Beam Splitter Cube, nonpolarizing, 20 x 20 x 20 mm	110,00	116,60		
Beam Splitter Cube, polarizing, 20 x 20 x 20 mm	130,00	137,80		
Quartz Wave Plate 1/2, 1/4, 0.5" x 0.5"	157,00	166,42		
Cylindrical Lens FQ, 30 x 30 mm ² , f~100 mm	43,00	45,58		
12 INTERFERENCE FILTERS	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	high quality interference filters for many science and technical applications. further wavelengths and sizes on request.			
new RLT-254-08-A, 254 nm , T >15%, size 1/2" x 4.7 mm	82,00	86,92	66,00	
new RLT-330-10-A, 330 nm , T >30%, size 1/2" x 6.6 mm	82,00	86,92	66,00	
new RLT-340-10-A, 340 nm , T >40%, size 1/2" x 7.3 mm	82,00	86,92	66,00	
new RLT-365-12-A, 365 nm , T >40%, size 1/2" x 6.3 mm	82,00	86,92	66,00	
new RLT-405-12-A, 405 nm , T >40%, size 1/2" x 8.3 mm	56,00	59,36	52,00	
new RLT-436-12-A, 436 nm , T >45%, size 1/2" x 6.6 mm	56,00	59,36	52,00	
new RLT-458-10-A, 458 nm , T >70%, size 1/2" x 3.6 mm	56,00	59,36	52,00	
new RLT-488-10-A, 488 nm , T >70%, size 1/2" x 3.6 mm	56,00	59,36	52,00	
new RLT-500-11-A, 500 nm , T >50%, size 1/2" x 5.7 mm	56,00	59,36	52,00	
new RLT-514.5-11-A, 514.5 nm , T >70%, size 1/2" x 5.7 mm	56,00	59,36	52,00	
new RLT-520-11-A, 511 nm , T >50%, size 1/2" x 5.7 mm	56,00	59,36	52,00	
new RLT-532-10-A, 532 nm , T >70%, size 1/2" x 5.8 mm	56,00	59,36	52,00	
new RLT-546-10-A, 546 nm , T >50%, size 1/2" x 5.8 mm	56,00	59,36	52,00	
new RLT-589-10-A, 589 nm , T >60%, size 1/2" x 5.3 mm	56,00	59,36	52,00	
new RLT-600-22-A, 600 nm , T >60%, size 1/2" x 5.3 mm	56,00	59,36	52,00	
new RLT-620-12-A, 620 nm , T >60%, size 1/2" x 5.3 mm	56,00	59,36	52,00	
new RLT-632.8-11-A, 632.8 nm , T >70%, size 1/2" x 2.8 mm	56,00	59,36	52,00	
new RLT-635-11-A, 635 nm , T >70%, size 1/2" x 2.8 mm	56,00	59,36	52,00	
new RLT-650-11-A, 650 nm , T >70%, size 1/2" x 2.8 mm	56,00	59,36	52,00	
new RLT-655-25-A, 655 nm , T >70%, size 1/2" x 2.8 mm	56,00	59,36	52,00	

new	RLT-658-11-A, 658 nm , T >70%, size 1/2" x 2.8 mm	56,00	59,36	52,00	
new	RLT-660-11-A, 660 nm , T >70%, size 1/2" x 2.8 mm	56,00	59,36	52,00	
new	RLT-670-11-A, 670 nm , T >70%, size 1/2" x 2.8 mm	56,00	59,36	52,00	
new	RLT-670-25-A, 670 nm , T >70%, size 1/2" x 2.8 mm	56,00	59,36	52,00	
new	RLT-680-11-A, 680 nm , T >70%, size 1/2" x 2.8 mm	56,00	59,36	52,00	
new	RLT-690-11-A, 690 nm , T >70%, size 1/2" x 2.8 mm	56,00	59,36	52,00	
new	RLT-780-12-A, 780 nm , T >70%, size 1/2" x 2.8 mm	82,00	86,92	66,00	
new	RLT-785-27.5-A, 785 nm , T >70%, size 1/2" x 3.6 mm	82,00	86,92	66,00	
new	RLT-790-12.5-A, 790 nm , T >70%, size 1/2" x 3.6 mm	82,00	86,92	66,00	
new	RLT-850-25-A, 850 nm , T >70%, size 1/2" x 2.3 mm	82,00	86,92	66,00	
new	RLT-905-33.5-A, 785 nm , T >70%, size 1/2" x 3.3 mm	82,00	86,92	66,00	
new	RLT-1064-11-A, 1064 nm , T >70%, size 1/2" x 3.6 mm	82,00	86,92	66,00	
	RLT-x-y-A: x = center wavelength CWL, y = HW				
09	LASER POWER METERS	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	LaserCheck, 400..1064 nm, 0.5 µW up to 1 W	399,90	399,90		
	HT-91EX, ext. Si-sensor, 400 nm - 1100 nm	629,19	666,95		
	HT-91, SMA, FC, 400 nm - 1100 nm	584,25	619,31		
	HT-92, SMA, FC, 800 nm - 1800 nm	674,14	714,58		
	HT-93, SMA, FC, 800 nm - 1800 nm	674,14	714,58		
09	OPTICAL FIBER LOSS TESTERS	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	HT-101/110, 0.4 - 1.1 µm, LED, 1310 nm	1.438,16	1.524,45		
	HT-102/120, 0.8 - 1.8 µm, LED, 1310 nm	1.438,16	1.524,45		
09	INFRARED INDICATOR CARDS	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 <p>infrared detector cards for visualisation of IR-light from LEDs and laser diodes. Wavelength range up to 1650 nm (IR1101)</p>				
	IRI 1101, 700 - 1650 nm, orange, active area = 1 cm ²	8,99	9,53		
	IRI 1400, 650 - 1500 nm, green, active area = 1 cm ²	6,74	7,15		
	IRI 4400, upconverting, 808 nm, 940 - 980 nm, 1 cm ² , green	8,99	9,53		
	IR-B1, 700 - 1300 nm, orange, active area 8.5 cm x 5.4 cm	98,87	104,81		
	IR-B2, 700 - 1300 nm, orange, active area 2.0 cm x 3.0 cm	17,98	19,06		
	IR-A1, 700 - 1550 nm, green, active 8.5 cm x 5.4 cm	89,88	95,28		
10	LASER SAFETY GOGGLES and SHEETS	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 <p>laser safety goggles and sheets available for all important technical laser wavelengths</p>				
	YL-300M, HeNe, Laser Sight	129,00	136,74	96,75	86,25
	YL-300, HeNe, Laser Defense, CE	129,00	136,74	96,75	86,25
	YL-300, Ruby, Laser Defense	129,00	136,74	96,75	86,25
	YL-300, Nd:YAG, SHG 532 nm, Laser Defense, CE	129,00	136,74	96,75	86,25
	YL-220H, Nd:YAG, 1064 nm, high power, CE	330,00	349,80	247,50	212,50
	YL-300, Argon, Laser Defense	129,00	136,74	96,75	86,25
	YL-300, Excimer, Laser Defense	129,00	136,74	96,75	86,25
	YL-300, Laser Diode 1, 740-790 nm, Laser Defense, CE	129,00	136,74	96,75	86,25
	YL-300, Laser Diode 2, 790-910 nm, Laser Defense, CE	129,00	136,74	96,75	86,25
	YL-300M, Visible Laser Diode, 660-680 nm, Laser Sight	129,00	136,74	96,75	86,25
	YL-300C, Broadband, 660-1100 nm	216,00	228,96	162,00	135,00
	Sheet, 40 x 55 cm ² , any laser wavelength available	755,03	800,33		
	laser enhancement goggle for red laser wavelengths	26,00	26,00		
06	RED LASERPOINTERS	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+

		red laserpointers. 635 nm or 6445 nm, 1 mW or typ. 3.5 mW				
		D.I.Y., 650 nm, 1 mW or 3 mW, plastic, 2 x AAA	15,80	16,75	9,00	7,40
		D.I.Y., 650 nm, 6 mW, plastic, 2 x AAA	36,00	38,16	30,00	
new		LP4001, 650 nm, <5 mW, 2 x AAA, metal housing, high quality pointer	19,00	20,14	11,60	9,60
		EX-1-FA, 635 nm, <5 mW, 2 x AAA, silver metal housing	45,00	47,70	36,45	
		LS-10, 645 nm, 3.5 mW, 2 x LR6, metal housing	16,50	17,49	8,60	7,80
		LS-11, 645 nm, 3.5 mW, 2 x AAA, black metal housing	16,00	16,96	8,14	7,40
		LS-11, 645 nm, 3.5 mW, 2 x AAA, silver metal housing	17,00	18,02	8,80	8,00
new		KS9-A, 645 nm, 3.5 mW, 3 x LR-44, metal housing	16,18	17,15		
new		LAQ004, 645 nm, <5 mW, 50 m waterproof, 2 x AA, plastic housing	24,00	25,44	18,00	
new		MBSL, 635 nm, <5 mW, 60 m waterproof, 2 x AA, metal housing	55,28	58,60	48,60	
06	GREEN LASERPOINTERS		\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
		green laserpointers, 532 nm, 1 mW up to 40 mW, cw or pulsed mode available				
		GPL-1, 532 nm, <1 mW, Q-switched, 2 x AAA	175,00	185,50	140,00	129,60
		GPL-3, 532 nm, <3 mW, Q-switched, 2 x AAA	185,00	196,10	145,00	129,60
		GPL-5, 532 nm, <5 mW, Q-switched, 2 x AAA	199,00	210,94	158,00	129,60
		GPL-105, 532 nm, >1 .. <5 mW, Q-switched, 2 x AAA	160,00	169,60	130,00	120,00
new		GPL-20, 532 nm, typ. 20 mW, 2 x AAA, for professional use only!	468,00	496,08	380,00	
new		GPL-30, 532 nm, typ. 30 mW, 2 x AAA, for professional use only!	650,00	689,00	500,00	
new		GPL-40, 532 nm, typ. 40 mW, 2 x AAA, for professional use only!	780,00	826,80	600,00	
new		GP5, 532 nm, < 5 mW, cw, classic pen design, 2 x N size	196,00	207,76	150,00	
		GLP-1, 532 nm, < 1 mW, cw, 2 x AAA	196,00	207,76	150,00	
		GLP-3, 532 nm, < 3 mW, cw, 2 x AAA	220,00	233,20	200,00	
		GLP-5, 532 nm, < 5 mW, cw, 2 x AAA	299,00	316,94	278,00	
06	OPTICAL FIBER CHECKER		\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
		fiber checker with visible laser diode source. Available wavelengths: 635 nm or 650 nm. Universal connector for most ferrules, pulse and cw- mode switchable. Complete and ready to use with case.				
new		Fibercheck OFC3-US-1, 635 nm, 1mW, p.&cw, sm FC-conn., 2 x AAA	93,29	98,89	75,25	64,80
new		Fibercheck OFC3-UM-1, 635 nm, 1mW, p.&cw, mm FC-conn., 2 x AAA	82,93	87,90	66,50	56,70
new		Fibercheck OFC5-US-1, 650 nm, 1mW, p.&cw, sm FC-conn., 2 x AAA	89,15	94,50	71,75	61,56
new		Fibercheck OFC5-UM-1, 650 nm, 1mW, p.&cw, mm FC-conn., 2 x AAA	78,78	83,51	63,00	53,46
06	INFRARED LASERPOINTERS		\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
		PIL-808-100, 808 nm, 100 mW, 2 x AAA	365,00	368,65		
		PIL-808-200, 808 nm, 200 mW, 2 x AAA	395,00	398,95		
		PIL-808-400, 808 nm, 400 mW, 2 x AAA	425,00	429,25		
		LS-10-850-3, 850 nm, 3 mW, 2 x LR6	99,00	99,99		
new		RLT-302UC, 980 nm, < 40 mW, 3 x LR44, eye safe operation	38,00	38,38	19,00	13,00
new		RLT-303UC, 980 nm, < 40 mW, 2 x AAA, eye safe operation	40,00	40,40	19,00	13,00
		UCP-980-10, 980 nm, 10 mW, key switch, on-led, 2 x AAA	199,00	200,99		
		UCP-980-20, 980 nm, 20 mW, key switch, on-led, 2 x AAA	249,00	251,49		
		UCP-980-50, 980 nm, 50 mW, key switch, on-led, 2 x AAA	299,00	301,99		
		UCP-980-100, 980 nm, 100 mW, key switch, on-led, 2 x AAA	440,00	444,40		
		OEM-980-10, 980 nm, 10 mW, 2 x AAA	410,00	414,10		
		OEM-980-20, 980 nm, 20 mW, 2 x AAA	600,00	606,00		
		OEM-980-25, 980 nm, 25mW, 2 x AAA	760,00	767,60		
		OEM-980-30, 980 nm, 30 mW, 2 x AAA	850,00	858,50		
		OEM-980-50, 980 nm, 50 mW, 2 x AAA	880,00	888,80		

new	DA-9820, 980 nm , < 20 mW, 3 x LR44, metal housing, on-indicator LED	123,00	124,23	65,00	42,00
	PIL-980-5, 980 nm , 5 mW	180,00	181,80	120,00	80,00
	PIL-980-10, 980 nm , 10 mW	180,00	181,80	120,00	80,00
	PIL-980-20, 980 nm , 20 mW	180,00	181,80	120,00	80,00
	PIL-980-50, 980 nm , 50 mW	210,00	212,10	150,00	90,00
	PIL-980-100, 980 nm , 100 mW	385,00	388,85	225,00	155,00
	PIL-980-200, 980 nm , 200 mW	425,00	429,25	295,00	190,00
	PIL-1064-1, 1064 nm , 1 mW, DPSS, IR-pointer, 2 x AAA	260,00	262,60	250,00	220,00
	PIL-1064-3, 1064 nm , 3 mW, DPSS, IR-pointer, 2 x AAA	270,00	272,70	250,00	220,00
	PIL-1064-5, 1064 nm , 5 mW, DPSS, IR-pointer, 2 x AAA	290,00	292,90	260,00	230,00
	PIL-1064-10, 1064 nm , 10 mW, DPSS, IR-pointer, 2 x AAA	390,00	393,90	310,00	290,00
new	GPLIR-10, 1064 nm , 10 mW, DPSS, IR-pointer, 2 x AAA				
	PIL-1064-20, 1064 nm , 20 mW, DPSS, IR-pointer, 2 x AAA	430,00	434,30	330,00	310,00
new	GPLIR-20, 1064 nm , 20 mW, DPSS, IR-pointer, 2 x AAA				
	OEM-1550-30, 1550 nm , 30 mW, 2 x AAA	984,00	993,84		
	other IR-wavelengths 0.7 μ m - 1.55 μ m on request!				
06	LED POINTERS 370 nm..1300 nm	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	 reliable and handheld light sources with UV-LEDs - available wavelengths 350 nm .. 405 nm , any wavelength up to 4.6 μ m on request RLT-283U				
	UV-Checker-550, UV-LED, 370 nm , 1 mW, 120°, 3 x LR44	50,00	53,00		
	UV-Checker-590, UV-LED, 370 nm , 1 mW, 10°, 3 x LR44	50,00	53,00		
	UV-Pointer-550, UV-LED, 370 nm , 1 mW, 120°, 2 x AAA	120,00	127,20		
	UV-Pointer-590, UV-LED, 370 nm , 1 mW, 10°, 2 x AAA	120,00	127,20		
new	RLT-283U, UV-LED, 380 nm , 1.5-2.0 mW, 30°, 3 x LR44	8,80	9,33	4,99	3,62
new	RLT-287U, ballpoint pen, UV-LED, 380 nm , 1.5-2.0 mW, 30°	9,80	10,39	5,50	4,20
new	AL-513UV-A, UV-LED, 395 nm , 5..6 mW, 3 x LR1130, 11.6 x 3.1 mm	11,20	11,20	6,60	4,10
	R-Point 470/3, blue-LED, 470 nm , typ. 8 mW, 10°, 2 x AAA	90,00	95,40		
	R-Point 525/2, green-LED, 525 nm , 2 mW, 10°, 2 x AAA	90,00	95,40		
	R-Point white-LED, 445..700 nm , 2 mW, 10°, 2 x AAA	90,00	95,40		
06	WHITE LED TORCHES	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	LL-9, 1 pc. white super bright LED torch, 2 x Lithium Cell, Key Chain	6,60	7,00	5,94	5,34
	"free light", white super bright LED torch, solar cell rechargeable	20,00	20,00	18,40	
	CH904, 4 pcs. white super bright LED torch, 3 x AA type batteries	20,00	21,20	17,00	14,10
	CH905, 3 pcs. white super bright LED torch, 3 x N type batteries	18,00	19,08	15,00	12,30
	CH906, 1 pc. white super bright LED torch, 3 x AA type batteries	15,00	15,90	13,00	10,50
	KG-434BK, 4 pcs. white NICHIA-LED torch, 2 x CR123A batteries	35,00	37,10	31,45	25,50
	KG-449BK, 4 pcs. white NICHIA-LED torch, 3 x AA batteries	33,00	34,98	29,60	24,00
06	LASERS FOR NIGHTVISION	\$ (USD)	€ (EURO)	\$ / 100+	\$ / 1000+
	Laser-Aimer 635 nm, 780 nm, 809 nm	193,25	204,85		
	Laserflashlight 830 nm, 40 mW, focusable	386,50	409,69		
	€ = prices in Euro, USD = prices in US-Dollar				
	foc: focusable, fix: fixfocus, A: acrylic lens				
	1G, 2G, 3G: 1-,2-, 3-lens glass-collimator, 3-6: supply-voltage=3-6VDC			group	item
	laserdiodes: sm: singlemode, mm: multimode, l.c.: low cost			01	laser diodes
	cw: continuous wave, FRQS: free running Q-switched, G: 9 mm package			02	optics
	MG: 5.6 mm package, C: open C-mount ,T: TO-3, B: Butterfly			03	laser accessories
	TE: Peltiercooler, TH: Thermistor, μ L: micro-lens, BW: broadend waveguide			04	photo detectors
	fw: flat window, blc: ball lens cap, e: epoxy, o.r.: on request			05	laser modules
	c.s.: coming soon			06	laser pointers
	datasheets: http://www.roithner.de/All_Datasheets/			07	LEDs
	or from mirror server:			08	laser crystals
	datasheets: http://66.33.8.80/All_Datasheets/			09	testing & measurement
	pricelists: http://www.roithner.de/All_Datasheets/Pricelists/			10	laser safety
	PRICES: Without VAT, without MwSt, duty unpaid			11	CO2
	ATTENTION! Price change and printing mistake reserved!			12	optical filters