



Electro Optical Components, Inc.

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IBSG LEDs (Standard and Flip-Chip models)

Spectral range of 1.6-2.3 μm

Model	Peak Wavelength, μm			FWHM, nm		Optical Power, mW				Voltage, V	Max operating current, mA		Switching time, ns	Operating temperature range($^{\circ}\text{C}$)	Chip Size, μm
	Min	Typ	Max	Min	Max	QCW(200mA)*		Pulse(1A)**			QCW	Pulse			
						Min	Max	Min	Max						
LED15FC	1.56	1.58	1.6	100	200	0.7	1.1	15	25	0.8 ~ 3.0	150-200	1000	10-30	-200...+50	670x770
LED16FC	1.6	1.65	1.69	70	150	0.8	2	20	35	0.8 ~ 4.8	150-200	1000	10-30	-200...+50	670x770
LED17FC	1.70	1.75	1.79	100	160	0.8	2.0	20	35	0.8 ~ 4.8	150-200	1000	10-30	-200...+50	670x770
LED18	1.83	1.85	1.87	100	200	0.7	1.1	15	25	0.5 ~ 1.5	250	2000	10-30	-200...+50	400x400
	1.87	1.88	1.90	100	200	0.7	1.1	15	25	0.5 ~ 1.5	250	2000	10-30	-200...+50	400x400
LED18FC	1.8	1.85	1.89	100	180	0.7	1.4	20	30	0.6-2.0	200	2000	10-30	-200...+50	670x770
LED19	1.92	1.95	1.97	100	200	0.8	1.2	20	30	0.5 ~ 1.5	250	2000	10-30	-200...+50	400x400
LED19FC	1.90	1.95	1.99	100	180	0.8	1.6	20	35	0.6 ~ 2.4	200	2000	10-30	-200...+50	670x770
LED20	2.02	2.05	2.07	150	250	0.8	1.2	20	30	0.5-1.5	250	2000	10-30	-200...+50	400x400
LED20FC	2.00	2.05	2.09	140	220	0.8	2.0	20	35	0.5 ~ 1.0	200	2000	10-30	-200...+50	670x770
LED21	2.13	2.15	2.16	150	250	0.8	1.2	20	30	0.5 ~ 1.0	250	2000	10-30	-200...+50	400x400
	2.17	2.18	2.19	150	250	0.8	1.2	15	25	0.5 ~ 1.0	250	2000	10-30	-200...+50	400x400
LED21FC	2.10	2.15	2.19	200	300	0.8	2.5	20	40	1.6 ~ 2.8	200	2000	10-30	-200...+50	670x770
LED22	2.19	2.2	2.22	150	250	0.8	1.2	15	25	0.5 ~ 1.0	250	2000	10-30	-200...+50	400x400
	2.25	2.27	2.29	150	250	0.7	1.1	15	25	0.5 ~ 1.0	250	2000	10-30	-200...+50	400x400
LED22FC	2.20	2.25	2.29	200	300	0.8	2.5	20	40	0.6 ~ 2.8	200	2000	10-30	-200...+50	670x770
LED23	2.3	2.31	2.33	170	270	0.6	1	12	20	0.8-2.5	250	2000	10-30	-240...+50	400x400
	2.33	2.35	2.39	170	270	0.6	1	12	20	0.5-1.0	250	2000	10-30	-240...+50	400x400
LED23FC	2.30	2.35	2.37	200	340	0.8	1.4	20	30	1.2 ~ 2.8	200	2000	10-30	-240...+50	670x770

*Repetition rate: 0.5 kHz, pulse duration: 1 ms, duty circle: 50%, current: 200 mA

**Repetition rate: 1 kHz, pulse duration: 1 μs , duty circle: 0.1%, current: 1 A

LED arrays and matrices on request