



LED DISPLAYS:ELS-5109A/B SERIES

ELECTRICAL AND OPTICAL CHARACTERISTICS (Ta=25℃)

Part No.	Emittd Color	PeakWave Length	Epoxy Color	Surface Color	Common Electrode	$\Delta\lambda$ (nm)	Pd (mW)	If (mA)	Peak (mA)	Vf(V)		IV(mcd)	
										Min	Max	Min	Max
ELS-5109AS	Red	620-630	White	Black	Cathode	10	35	20	60	1.8	2.0	82	92
ELS-5109AO	Orange	600-610	White	Black	Cathode	10	35	20	60	1.8	2.0	85	95
ELS-5109AY	Yellow	585-595	White	Black	Cathode	10	35	20	60	1.8	2.0	88	98
ELS-5109AG	Olivine	565-575	White	Black	Cathode	10	35	20	60	1.8	2.0	10	20
ELS-5109AGG	Emerald	515-525	White	Black	Cathode	10	55	20	60	2.6	2.8	215	225
ELS-5109AB	Blue	460-470	White	Black	Cathode	10	55	20	60	2.6	2.8	15	25
ELS-5109AW	White	-	-	Black	Cathode	-	55	20	60	2.6	2.8	-	-
ELS-5109BS	Red	620-630	White	Black	Anode	10	35	20	60	1.8	2.0	82	92
ELS-5109BO	Orange	600-610	White	Black	Anode	10	35	20	60	1.8	2.0	85	95
ELS-5109BY	Yellow	585-595	White	Black	Anode	10	35	20	60	1.8	2.0	88	98
ELS-5109BG	Olivine	565-575	White	Black	Anode	10	35	20	60	1.8	2.0	10	20
ELS-5109BGG	Emerald	515-525	White	Black	Anode	10	55	20	60	2.6	2.8	215	225
ELS-5109BB	Blue	460-470	White	Black	Anode	10	55	20	60	2.6	2.8	15	25
ELS-5109BW	White	-	-	Black	Anode	-	55	20	60	2.6	2.8	-	-

ABSOLUTE MAXIMUN RATINGS (Ta=25℃)

ReverseVoltage	ReverseCurrent (VR=5V)	OperatingTemperature Range	StorageTemperature Range	Lead Soldering Temperature
5V	20 μ A	-20℃~+80℃	-30℃~+80℃	255 ℃ For 3 seconds

PACKAGE DIMENSION (Unit: millimeters, Tolerance : ±0.25mm)

