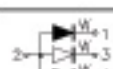
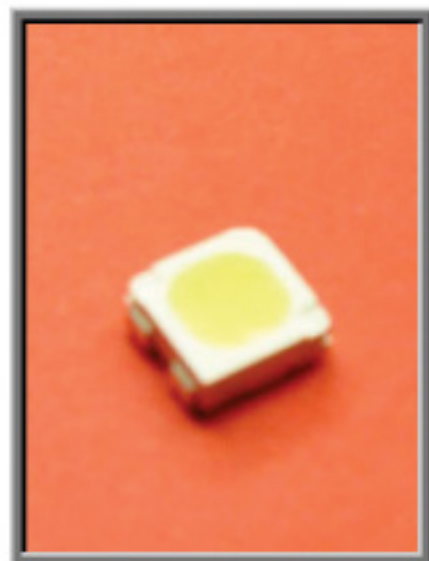


① REFLECTOR COATING TYPE HIGH-PERFORMANCE LEDS

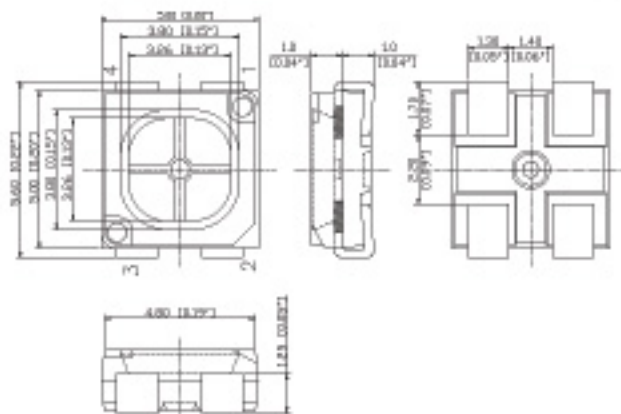
反射蓋灌注型高效率發光二極體

GH-2050 Full-Color Series Electro-Optical Characteristics:

Code for parts GH-XXXXX	Lighting Color	Material	V _F (V)		λ (nm)			I _V (mcd)	Internal Circuit
			Typ	Max	λ _D	λ _P	Δλ	Min	
WCE750TZ-WPE	Red	AlGaInP	2.00	2.50	630	640	20	95	
	Yellow	AlGaInP	2.00	2.50	590	595	20	95	
	Blue	GaInN	3.50	4.00	465	460	30	50	
WCE550TZ-WPH	Red	AlGaInP	2.00	2.50	630	640	20	95	
	Green	GaInN	3.30	3.80	525	520	30	190	
	Blue	GaInN	3.50	4.00	465	460	30	50	
WCE650TZ-WPH	Orange	AlGaInP	2.20	2.70	624	635	20	95	
	Green	GaInN	3.30	3.80	525	520	30	190	
	Blue	GaInN	3.50	4.00	465	460	30	50	
WLHC50TZ-WFQ	White	InGaIn	3.3	3.8	X=0.29, Y=0.29			800	



② Package Outline Drawing:

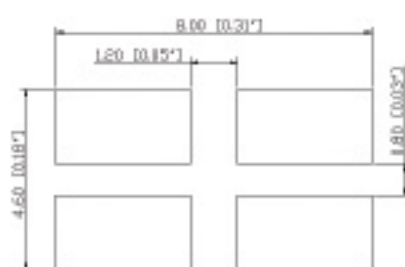


- NOTES: 1. All dimensions are in millimeters (inches);
2. Tolerances are $\pm 0.2\text{mm}$ (0.008inch) unless otherwise noted;
3. Resin color: water clear.

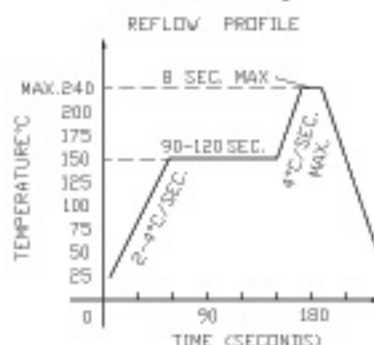
● Soldering iron

Basic spec is $\leq 5\text{sec}$ when 260°C . If temperature is higher, time should be shorter ($+10^\circ\text{C} \rightarrow -1\text{sec}$). Power dissipation of iron should be smaller than 15W, and temperatures should be controllable. Surface temperature of the device should be under 230°C .

● Recommended Soldering Pattern For Reflow Soldering



● Recommended Reflow Soldering Profile.



③ Absolute Maximum Ratings:

Series	I _F (mA)	*I _{FP} (mA)	V _R (V)	T _{OP} ($^\circ\text{C}$)	T _{ST} ($^\circ\text{C}$)
GH-2050 Full-Color Series	30	120	5	-40~+80	-40~+85

*Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width