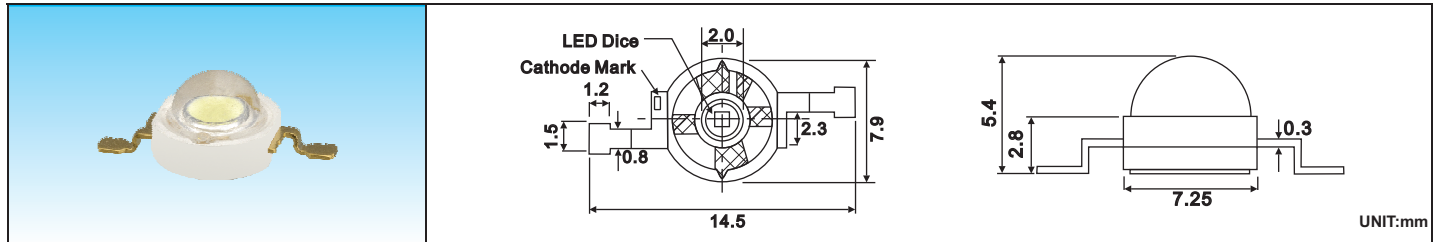


High Power 1W For Lambertian LEDs

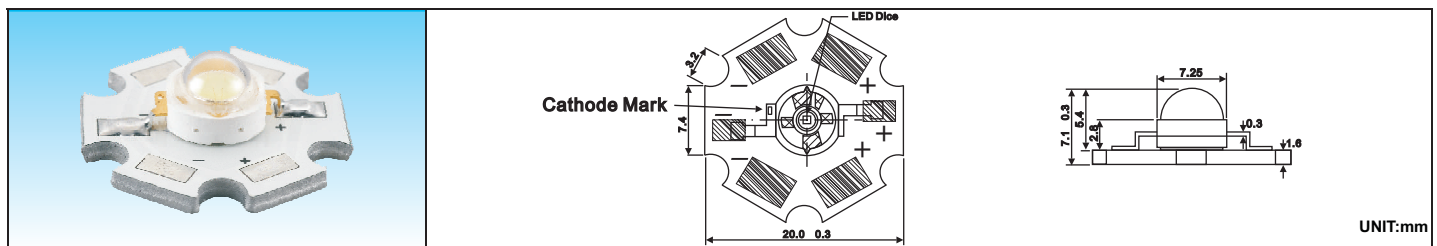


IF=350mA Ta=25°C

Device No	Color		Wavelength(nm)		VF Typical (V)	Brightness(lm) IV	View Angle 2θ 1/2
	Emitter	Lens	λ p	λ d			



HPB8-43KG		Green	Water clear	520	525	3.60	55.0	120
HPB8-44KY		Yellow		595	590	2.30	43.0	
HPB8-45KR		Red		635	625	2.30	45.0	
HPB8-48KB		Blue		462	465	3.60	16.0	
HPB8-48KBD						3.50	35.0	
HPB8-49KWD		Pure White		6000°K		3.50	90.0	
HPB8-49KWG						105.0		
HPB8-49KWGA						3.60	125.0	
HPB8-49KWGB						3.50	132.0	
HPB8-49KYWD		Warm White		3300°K		3.50	81.0	
HPB8-49KYWG						95.0		
HPB8-49KYWGA						3.60	110.0	
HPB8-49KYWGB						3.50	116.0	



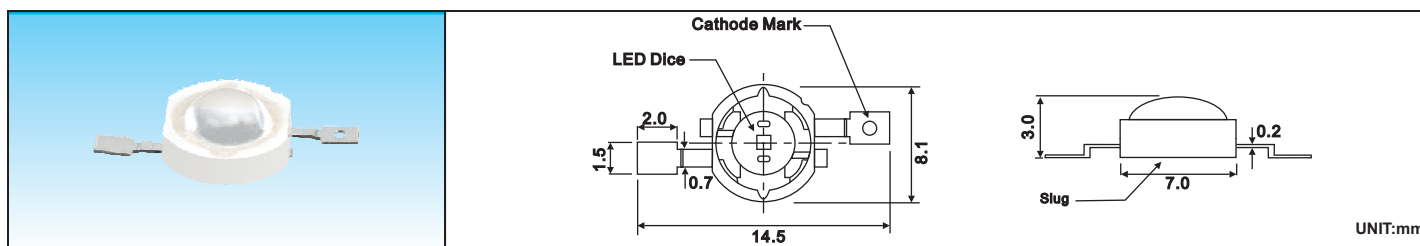
HPB8-43KG/WPCB		Green	Water clear	520	525	3.60	55.0	120
HPB8-44KY/WPCB		Yellow		595	590	2.30	43.0	
HPB8-45KR/WPCB		Red		635	625	2.30	45.0	
HPB8-48KB/WPCB		Blue		462	465	3.60	16.0	
HPB8-48KBD/WPCB						3.50	35.0	
HPB8-49KWD/WPCB		Pure White		6000°K		3.50	90.0	
HPB8-49KWG/WPCB							105.0	
HPB8-49KWGA/WPCB						3.60	125.0	
HPB8-49KWGB/WPCB						3.50	132.0	
HPB8-49KYWD/WPCB		Warm White		3300°K		3.50	81.0	
HPB8-49KYWG/WPCB							95.0	
HPB8-49KYWGA/WPCB						3.60	110.0	
HPB8-49KYWGB/WPCB						3.50	116.0	



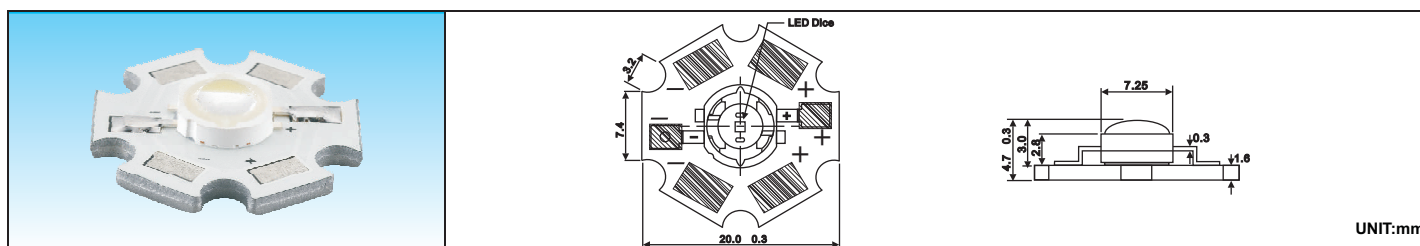
High Power 1W For Lambertian LEDs

IF=350mA Ta=25°C

Device No	Color		Wavelength(nm)		VF Typical (V)	Brightness(lm)	View Angle 2θ 1/2
	Emitter	Lens	λ p	λ d		IV	



HPB8C-43KG		Green	Water clear	520	525	3.60	55.0	120
HPB8C-44KY		Yellow		595	590	2.30	43.0	
HPB8C-45KR		Red		635	625	2.30	45.0	
HPB8C-48KB		Blue		462	465	3.60	16.0	
HPB8C-48KBD						3.50	35.0	
HPB8C-49KWD		Pure White		6000°K		3.50	90.0	
HPB8C-49KWG						3.50	105.0	
HPB8C-49KWGA						3.60	125.0	
HPB8C-49KWGB						3.50	132.0	
HPB8C-49KYWD		Warm White		3300°K		3.50	81.0	
HPB8C-49KYWG						3.50	95.0	
HPB8C-49KYWGA						3.60	110.0	
HPB8C-49KYWGB						3.50	116.0	



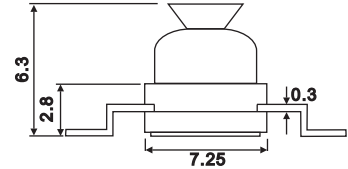
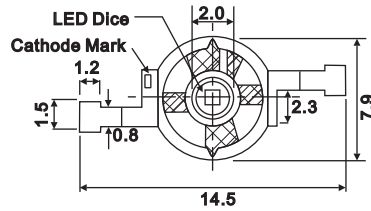
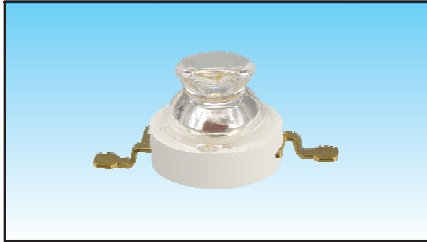
HPB8C-43KG/WPCB		Green	Water clear	520	525	3.60	55.0	120
HPB8C-44KY/WPCB		Yellow		595	590	2.30	43.0	
HPB8C-45KR/WPCB		Red		635	625	2.30	45.0	
HPB8C-48KB/WPCB		Blue		462	465	3.60	16.0	
HPB8C-48KBD/WPCB						3.50	35.0	
HPB8C-49KWD/WPCB		Pure White		6000°K		3.50	90.0	
HPB8C-49KWG/WPCB						3.50	105.0	
HPB8C-49KWGA/WPCB						3.60	125.0	
HPB8C-49KWGB/WPCB						3.50	132.0	
HPB8C-49KYWD/WPCB		Warm White		3300°K		3.50	81.0	
HPB8C-49KYWG/WPCB						3.50	95.0	
HPB8C-49KYWGA/WPCB						3.60	110.0	
HPB8C-49KYWGB/WPCB						3.50	116.0	

High Power 1W For Side Emitting LEDs



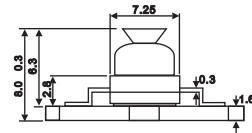
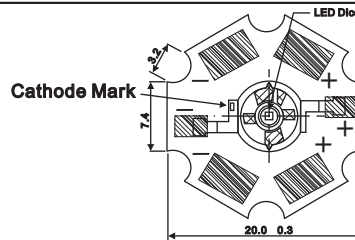
IF=350mA Ta=25°C

Device No	Color		Wavelength(nm)		VF Typical (V)	Brightness(lm) IV	View Angle 2θ 1/2
	Emitter	Lens	λ p	λ d			



UNIT:mm

HPS8-43KG		Green	Water clear	520	525	3.60	50.0	±80
HPS8-44KY		Yellow		595	590	2.30	38.0	
HPS8-45KR		Red		635	625	2.30	40.0	
HPS8-48KB		Blue		462	465	3.60	15.0	
HPS8-48KBD						3.50	32.0	
HPS8-49KWD		Pure White		6000°K		3.50	81.0	
HPS8-49KWG							95.0	
HPS8-49KWGA						3.60	110.0	
HPS8-49KWGB						3.50	116.0	
HPS8-49KYWD		Warm White		3300°K		3.50	73.0	
HPS8-49KYWG							86.0	
HPS8-49KYWGA						3.60	99.0	
HPS8-49KYWGB						3.50	104.0	



UNIT:mm

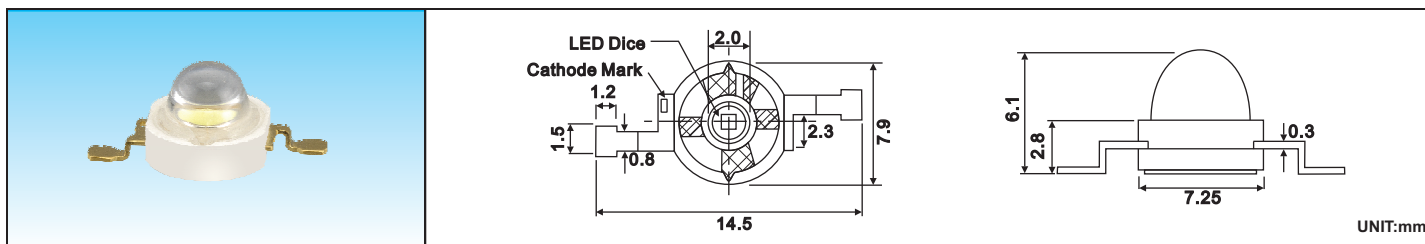
HPS8-43KG/WPCB		Green	Water clear	520	525	3.60	50.0	±80
HPS8-44KY/WPCB		Yellow		595	590	2.30	38.0	
HPS8-45KR/WPCB		Red		635	625	2.30	40.0	
HPS8-48KB/WPCB		Blue		462	465	3.60	15.0	
HPS8-48KBD/WPCB						3.50	32.0	
HPS8-49KWD/WPCB		Pure White		6000°K		3.50	81.0	
HPS8-49KWG/WPCB							95.0	
HPS8-49KWGA/WPCB						3.60	110.0	
HPS8-49KWGB/WPCB						3.50	116.0	
HPS8-49KYWD/WPCB		Warm White		3300°K		3.50	73.0	
HPS8-49KYWG/WPCB							86.0	
HPS8-49KYWGA/WPCB						3.60	99.0	
HPS8-49KYWGB/WPCB						3.50	104.0	



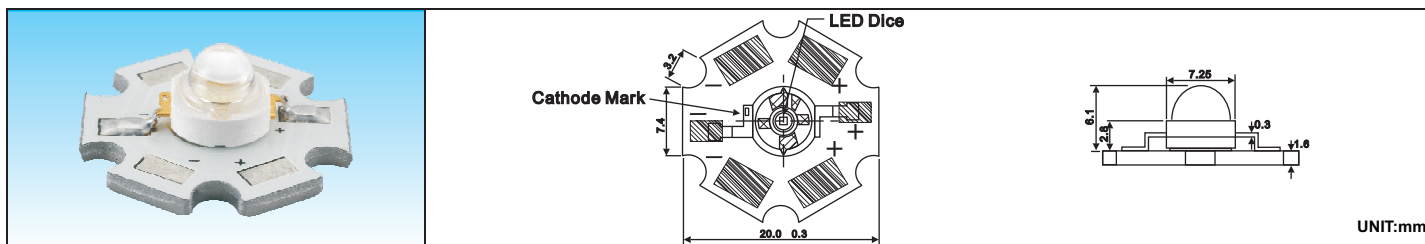
High Power 1W For Focusing LEDs

IF=350mA Ta=25°C

Device No	Color		Wavelength(nm)		VF Typical (V)	Brightness(lm)	View Angle 2θ 1/2
	Emitter	Lens	λ p	λ d		IV	



HPD8-43KG		Green	Water clear	520	525	3.60	55.0	45
HPD8-44KY		Yellow		595	590	2.30	43.0	
HPD8-45KR		Red		635	625	2.30	45.0	
HPD8-48KB		Blue		462	465	3.60	16.0	
HPD8-48KBD						3.50	35.0	
HPD8-49KWD		Pure White		6000°K		3.50	90.0	
HPD8-49KWG							105.0	
HPD8-49KWGA						3.60	125.0	
HPD8-49KWGB						3.50	132.0	
HPD8-49KYWD		Warm White		3300°K		3.50	81.0	
HPD8-49KYWG							95.0	
HPD8-49KYWGA						3.60	110.0	
HPD8-49KYWGB						3.50	116.0	



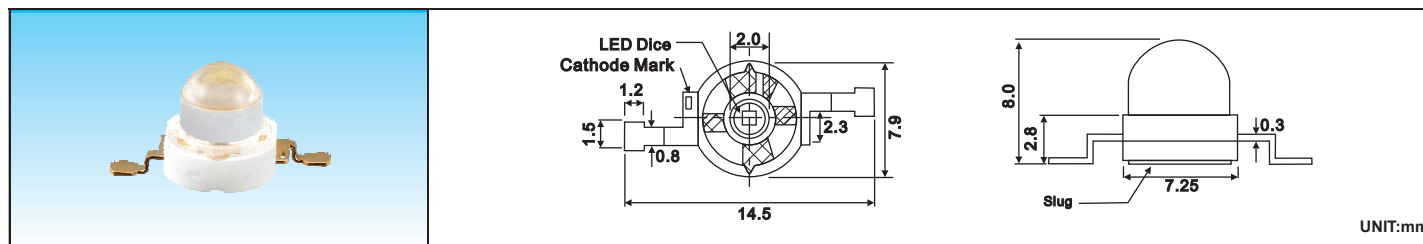
HPD8-43KG/WPCB		Green	Water clear	520	525	3.60	55.0	45
HPD8-44KY/WPCB		Yellow		595	590	2.30	43.0	
HPD8-45KR/WPCB		Red		635	625	2.30	45.0	
HPD8-48KB/WPCB		Blue		462	465	3.60	16.0	
HPD8-48KBD/WPCB						3.50	35.0	
HPD8-49KWD/WPCB		Pure White		6000°K		3.50	90.0	
HPD8-49KWG/WPCB							105.0	
HPD8-49KWGA/WPCB						3.60	125.0	
HPD8-49KWGB/WPCB						3.50	132.0	
HPD8-49KYWD/WPCB		Warm White		3300°K		3.50	81.0	
HPD8-49KYWG/WPCB							95.0	
HPD8-49KYWGA/WPCB						3.60	110.0	
HPD8-49KYWGB/WPCB						3.50	116.0	

High Power 1W For Focusing LEDs

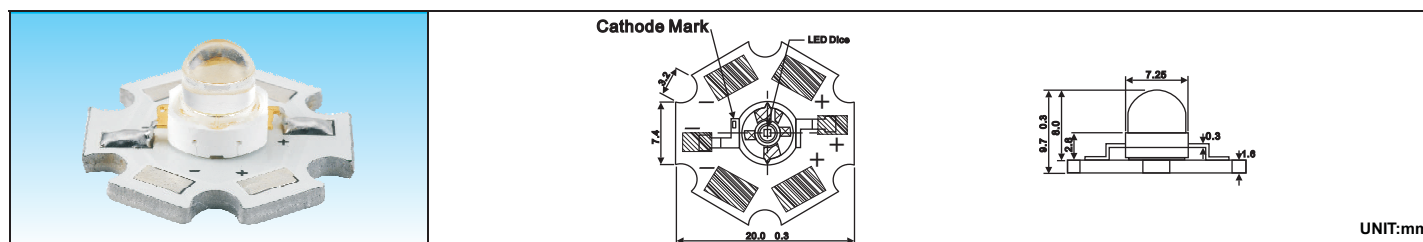


IF=350mA Ta=25°C

Device No	Color		Wavelength(nm)		VF Typical (V)	Brightness(lm)	View Angle 2θ 1/2
	Emitter	Lens	λ p	λ d		IV	



HPE8-43KG		Green	Water clear	520	525	3.60	55.0	25
HPE8-44KY		Yellow		595	590	2.30	43.0	
HPE8-45KR		Red		635	625	2.30	45.0	
HPE8-48KB		Blue		462	465	3.60	16.0	
HPE8-48KBD						3.50	35.0	
HPE8-49KWD		Pure White		6000°K		3.50	90.0	
HPE8-49KWG							105.0	
HPE8-49KWGA						3.60	125.0	
HPE8-49KWGB						3.50	132.0	
HPE8-49KYWD		Warm White		3300°K		3.50	81.0	
HPE8-49KYWG							95.0	
HPE8-49KYWGA						3.60	110.0	
HPE8-49KYWGB						3.50	116.0	



HPE8-43KG/WPCB		Green	Water clear	520	525	3.60	55.0	25
HPE8-44KY/WPCB		Yellow		595	590	2.30	43.0	
HPE8-45KR/WPCB		Red		635	625	2.30	45.0	
HPE8-48KB/WPCB		Blue		462	465	3.60	16.0	
HPE8-48KBD/WPCB						3.50	35.0	
HPE8-49KWD/WPCB		Pure White		6000°K		3.50	90.0	
HPE8-49KWG/WPCB							105.0	
HPE8-49KWGA/WPCB						3.60	125.0	
HPE8-49KWGB/WPCB						3.50	132.0	
HPE8-49KYWD/WPCB		Warm White		3300°K		3.50	81.0	
HPE8-49KYWG/WPCB							95.0	
HPE8-49KYWGA/WPCB						3.60	110.0	
HPE8-49KYWGB/WPCB						3.50	116.0	