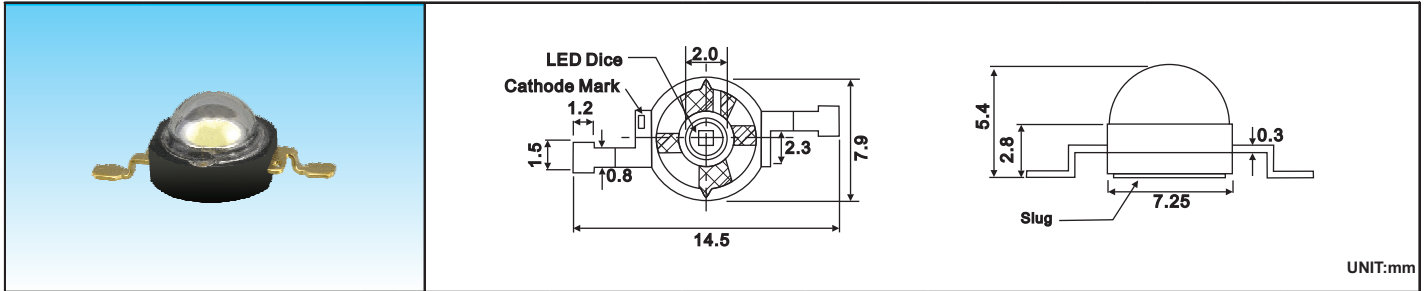


High Power 5W For Lambertian LEDs

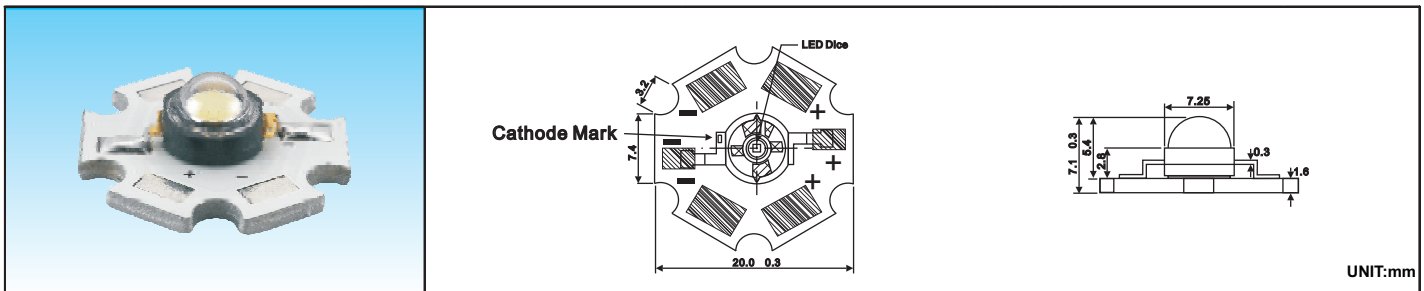


IF=1400mA Ta=25°C

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



HPB8b-43K5G	Green	Water clear	520	525	3.8	160	120
HPB8b-44K5Y	Yellow		595	590	2.3	120	
HPB8b-45K5R	Red		635	625	2.3	136	
HPB8b-48K5BB	Blue		462	465	3.6	80	
HPB8b-48K5BHC			4.2		110		
HPB8b-49K5WB	Pure White		6000°K		3.6	220	
HPB8b-49K5WHC					4.2	355	
HPB8b-49K5YWB	Warm White		3300°K		3.6	195	
HPB8b-49K5YWHC					4.2	320	



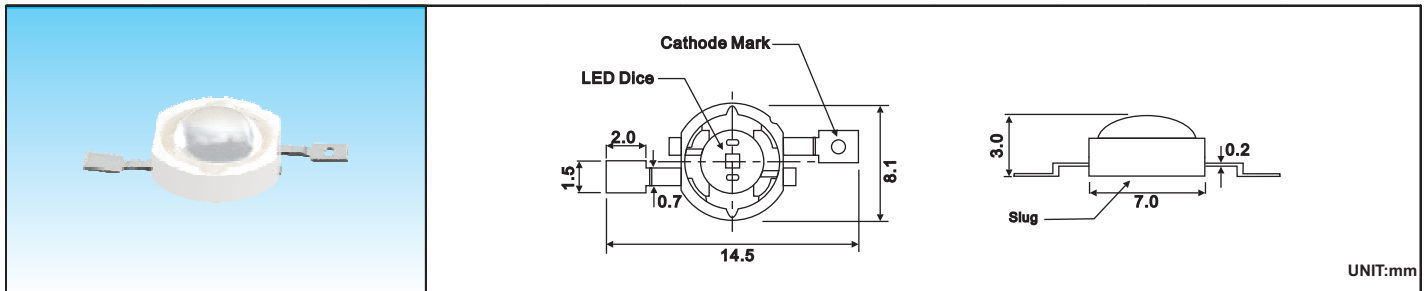
HPB8b-43K5G/WPCB	Green	Water clear	520	525	3.8	160	120
HPB8b-44K5Y/WPCB	Yellow		595	590	2.3	120	
HPB8b-45K5R/WPCB	Red		635	625	2.3	136	
HPB8b-48K5BB/WPCB	Blue		462	465	3.6	80	
HPB8b-48K5BHC/WPCB			4.2		110		
HPB8b-49K5WB/WPCB	Pure White		6000°K		3.6	220	
HPB8b-49K5WHC/WPCB					4.2	355	
HPB8b-49K5YWB/WPCB	Warm White		3300°K		3.6	195	
HPB8b-49K5YWHC/WPCB					4.2	320	



High Power 5W For Lambertian LEDs

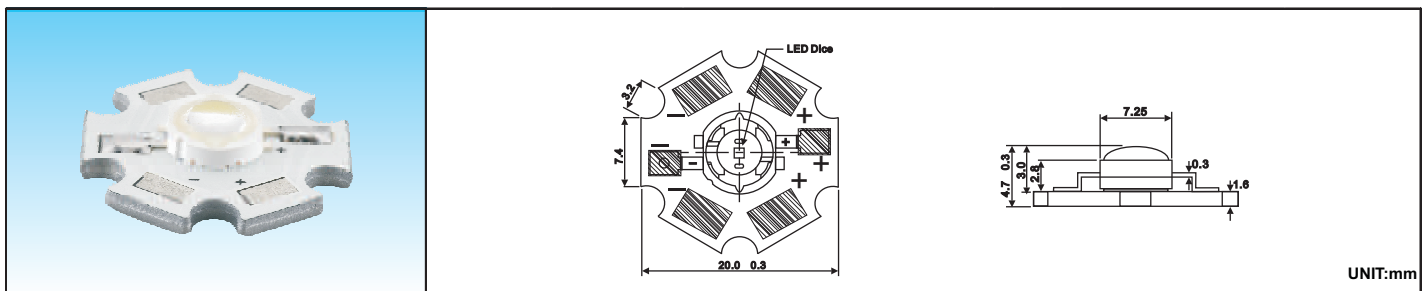
IF=1400mA Ta=25°C

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



UNIT:mm

HPB8C-43K5G	Green	Water clear	520	525	3.8	160	120
HPB8C-44K5Y	Yellow		595	590	2.3	120	
HPB8C-45K5R	Red		635	625	2.3	136	
HPB8C-48K5BB	Blue		462	465	3.6	80	
HPB8C-48K5BHC					4.2	110	
HPB8C-49K5WB	Pure White		6000°K		3.6	220	
HPB8C-49K5WHC					4.2	355	
HPB8C-49K5YWB	Warm White		3300°K		3.6	195	
HPB8C-49K5YWHC					4.2	320	



UNIT:mm

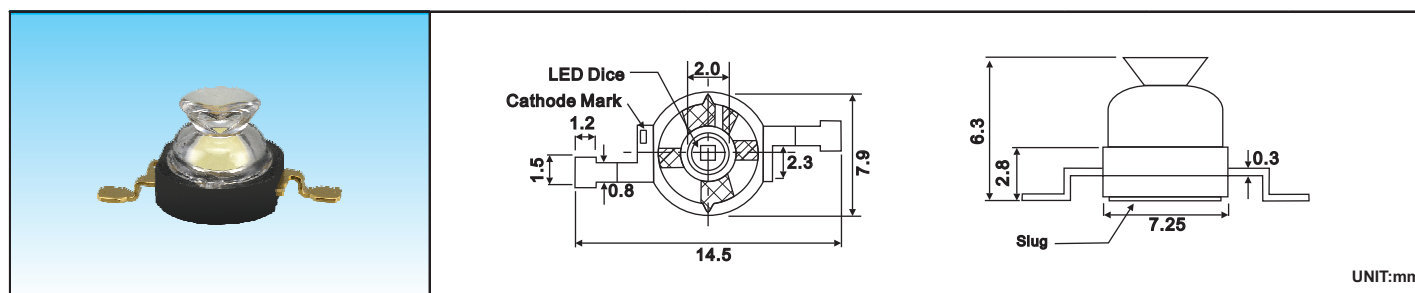
HPB8C-43K5G/WPCB	Green	Water clear	520	525	3.8	160	120
HPB8C-44K5Y/WPCB	Yellow		595	590	2.3	120	
HPB8C-45K5R/WPCB	Red		635	625	2.3	136	
HPB8C-48K5BB/WPCB	Blue		462	465	3.6	80	
HPB8C-48K5BHC/WPCB					4.2	110	
HPB8C-49K5WB/WPCB	Pure White		6000°K		3.6	220	
HPB8C-49K5WHC/WPCB					4.2	355	
HPB8C-49K5YWB/WPCB	Warm White		3300°K		3.6	195	
HPB8C-49K5YWHC/WPCB					4.2	320	

High Power 5W For Side Emitting LEDs

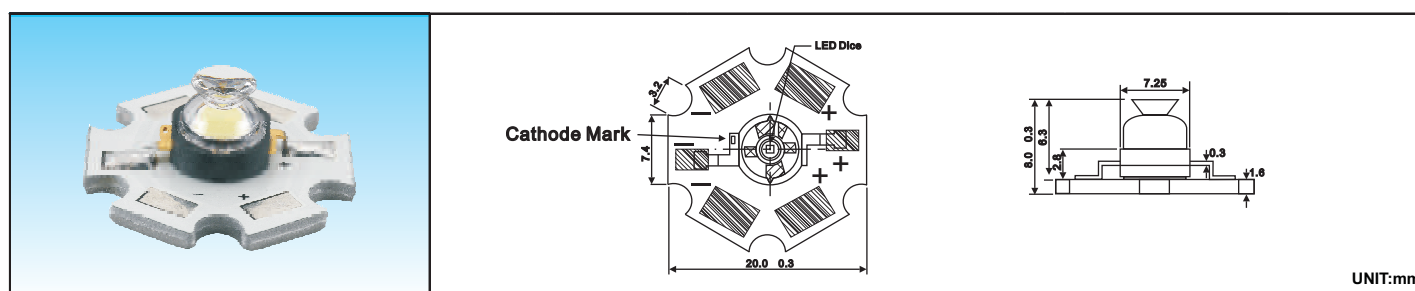


IF=1400mA Ta=25°C

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



HPS8b-43K5G	Green	Water clear	520	525	3.8	146	80
HPS8b-44K5Y	Yellow		595	590	2.3	108	
HPS8b-45K5R	Red		635	625	2.3	123	
HPS8b-48K5BB	Blue		462	465	3.6	72	
HPS8b-48K5BHC					4.2	99	
HPS8b-49K5WB	Pure White		6000°K		3.6	200	
HPS8b-49K5WHC					4.2	320	
HPS8b-49K5YWB	Warm White		3300°K		3.6	180	
HPS8b-49K5YWHC					4.2	280	



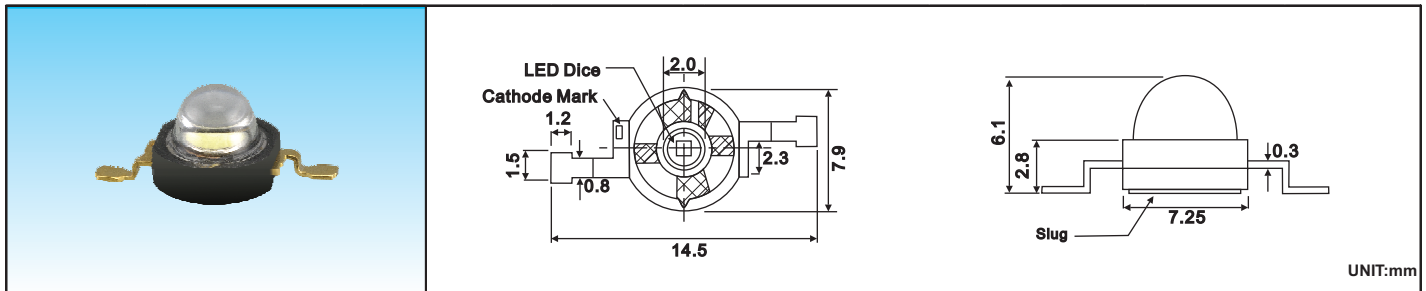
HPS8b-43K5G/WPCB	Green	Water clear	520	525	3.8	146	80
HPS8b-44K5Y/WPCB	Yellow		595	590	2.3	108	
HPS8b-45K5R/WPCB	Red		635	625	2.3	123	
HPS8b-48K5BB/WPCB	Blue		462	465	3.6	72	
HPS8b-48K5BHC/WPCB					4.2	99	
HPS8b-49K5WB/WPCB	Pure White		6000°K		3.6	200	
HPS8b-49K5WHC/WPCB					4.2	320	
HPS8b-49K5YWB/WPCB	Warm White		3300°K		3.6	180	
HPS8b-49K5YWHC/WPCB					4.2	280	



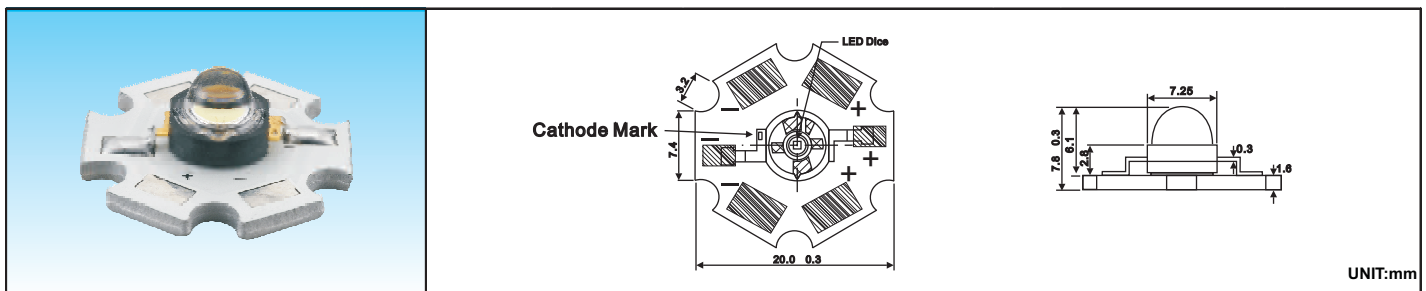
High Power 5W For Focusing LEDs

IF=1400mA 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			



HPD8b-43K5G	Green	Water clear	520	525	3.8	160	45
HPD8b-44K5Y	Yellow		595	590	2.3	120	
HPD8b-45K5R	Red		635	625	2.3	136	
HPD8b-48K5BB	Blue		462	465	3.6	80	
HPD8b-48K5BHC			4.2		110		
HPD8b-49K5WB	Pure White		6000°K		3.6	220	
HPD8b-49K5WHC			4.2	355			
HPD8b-49K5YWB	Warm White		3300°K		3.6	195	
HPD8b-49K5YWHC			4.2	320			



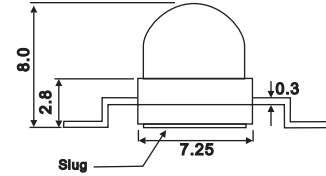
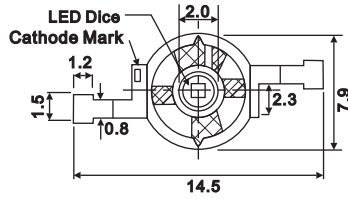
HPD8b-43K5G/WPCB	Green	Water clear	520	525	3.8	160	45
HPD8b-44K5Y/WPCB	Yellow		595	590	2.3	120	
HPD8b-45K5R/WPCB	Red		635	625	2.3	136	
HPD8b-48K5BB/WPCB	Blue		462	465	3.6	80	
HPD8b-48K5BHC/WPCB			4.2		110		
HPD8b-49K5WB/WPCB	Pure White		6000°K		3.6	220	
HPD8b-49K5WHC/WPCB			4.2	355			
HPD8b-49K5YWB/WPCB	Warm White		3300°K		3.6	195	
HPD8b-49K5YWHC/WPCB			4.2	320			

High Power 5W For Focusing LEDs



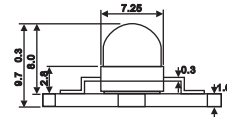
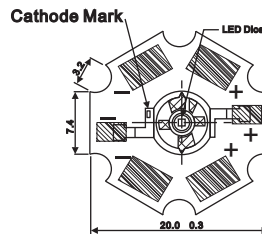
IF=1400mA Ta=25°C

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



UNIT:mm

HPE8b-43K5G	Green	Water clear	520	525	3.8	160	25
HPE8b-44K5Y	Yellow		595	590	2.3	120	
HPE8b-45K5R	Red		635	625	2.3	136	
HPE8b-48K5BB	Blue		462	465	3.6	80	
HPE8b-48K5BHC			4.2		110		
HPE8b-49K5WB	Pure White		6000°K		3.6	220	
HPE8b-49K5WHC			4.2	355			
HPE8b-49K5YWB	Warm White		3300°K		3.6	195	
HPE8b-49K5YWHC			4.2	320			



UNIT:mm

HPE8b-43K5G/WPCB	Green	Water clear	520	525	3.8	160	25
HPE8b-44K5Y/WPCB	Yellow		595	590	2.3	120	
HPE8b-45K5R/WPCB	Red		635	625	2.3	136	
HPE8b-48K5BB/WPCB	Blue		462	465	3.6	80	
HPE8b-48K5BHC/WPCB			4.2		110		
HPE8b-49K5WB/WPCB	Pure White		6000°K		3.6	220	
HPE8b-49K5WHC/WPCB			4.2	355			
HPE8b-49K5YWB/WPCB	Warm White		3300°K		3.6	195	
HPE8b-49K5YWHC/WPCB			4.2	320			