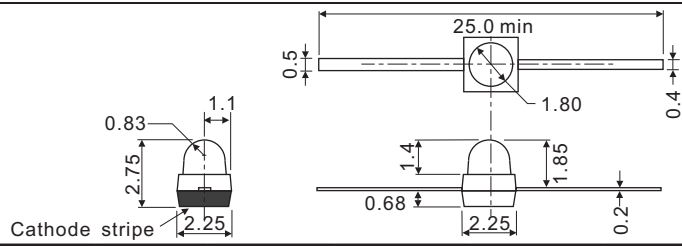
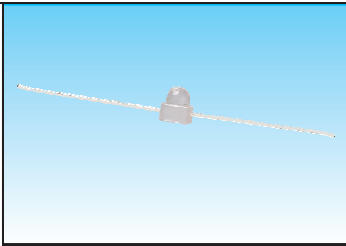


Miniature Device LEDs



Ta=25°C

Device No	Color		Wavelength (nm)		VF Typical (V)	Brightness (mcd)		View Angle 2θ1/2
	Emitter	Lens	λp	λd		IV1	IV2	



UNIT:mm

Round	HMIB-43	yellow green	Water clear	570	567	2.15	55.0	80.0	24
	HMIB-43CG	super yellow green		570	567	2.15	70.0	500.0	
	HMIB-43BG	super yellow green		575	572	2.20	380.0	900.0	
	HMIB-43AGC	pure green		523	525	3.20	1400.0	3000.0	
	HMIB-43B	cyan		502	505	3.20	1800.0	3500.0	
	HMIB-43PG	pure green		557	560	2.25	13.0	20.0	
	HMIB-44	yellow		589	585	2.10	30.0	45.0	
	HMIB-44AY	super yellow		592	590	2.00	550.0	1300.0	
	HMIB-44FY	super yellow		592	590	2.00	1200.0	3000.0	
	HMIB-44WY	super yellow		592	590	2.10	1900.0	3800.0	
	HMIB-44WYA	super yellow		592	590	2.10	2500.0	4500.0	
	HMIB-44HY	super yellow		592	590	2.10	2000.0	4000.0	
	HMIB-45	orange		625	618	2.05	35.0	50.0	
	HMIB-45AO	super orange		620	615	2.00	550.0	1300.0	
	HMIB-45FO	super orange		620	615	2.00	1200.0	3000.0	
	HMIB-45AOR	super fresh red		635	625	2.00	800.0	1500.0	
	HMIB-46DR	super red		660	643	1.80	80.0	350.0	
	HMIB-46CR	super red		660	643	1.80	200.0	600.0	
	HMIB-46ARA	super red		660	645	1.86	300.0	1200.0	
	HMIB-46WOR	super fresh red		635	625	2.10	2200.0	4400.0	
	HMIB-46WORA	super fresh red		635	625	2.10	3000.0	5200.0	
	HMIB-46HOR	super fresh red		635	625	2.10	2400.0	4800.0	
	HMIB-47HA	super amber		607	605	2.10	2500.0	5000.0	
	HMIB-48ABD	super blue		462	465	3.30	900.0	1800.0	
HMIB-19AWE	super white	(x:0.29,y:0.30)		3.30	2800.0	5500.0			
HMIB-19YWE	warm white	(x:0.40,y:0.41)		3.30	2200.0	4500.0			

IV1:Labsphere LED-1100 IV2:EXELTRON 2001.



Miniature Device LEDs

Ta=25°C

Device No	Color		Wavelength (nm)		VF	Brightness (mcd)		View
	Emitter	Lens	λ_p	λ_d	Typical (V)	IV1	IV2	Angle 2 θ 1/2

Cylindrical	Color		Wavelength (nm)		VF	Brightness (mcd)		View	
	Emitter	Lens	λ_p	λ_d	Typical (V)	IV1	IV2	Angle 2 θ 1/2	
	HMIC-43	yellow green		570	567	2.15	5.0	10.0	125
	HMIC-43PG	pure green		557	560	2.25	1.5	3.0	
	HMIC-43CG	super yellow green		570	567	2.15	10.0	20.0	
	HMIC-44	yellow		589	585	2.10	4.0	8.0	
	HMIC-44AY	super yellow		592	590	2.00	65.0	80.0	
	HMIC-44FY	super yellow		592	590	2.00	150.0	180.0	
	HMIC-44WY	super yellow		592	590	2.10	120.0	235.0	85
	HMIC-44WYA	super yellow		592	590	2.10	150.0	280.0	
	HMIC-44HY	super yellow		592	590	2.10	250.0	500.0	
	HMIC-45	orange		625	618	2.05	9.0	10.0	
	HMIC-45AOR	super fresh red	Water clear	635	625	2.00	65.0	80.0	125
	HMIC-45FO	super orange		620	615	2.00	150.0	180.0	
	HMIC-46DR	super red		660	643	1.80	14.0	22.0	75
	HMIC-46CR	super red		660	643	1.80	18.5	30.0	125
	HMIC-46ARA	super red		660	645	1.86	80.0	130.0	75
	HMIC-46WOR	super fresh red		635	625	2.10	100.0	200.0	125
	HMIC-46WORA	super fresh red		635	625	2.10	120.0	240.0	
	HMIC-46HOR	super fresh red		635	625	2.10	150.0	300.0	
	HMIC-47HA	super amber		607	605	2.10	500.0	1000.0	
	HMIC-48ABD	super blue		462	465	3.30	100.0	200.0	125
	HMIC-19AWE	super white		(x:0.29,y:0.30)		3.30	200.0	400.0	
	HMIC-19YWE	warm white		(x:0.40,y:0.41)		3.30	150.0	350.0	

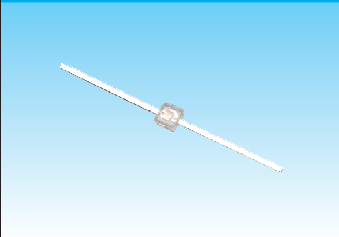
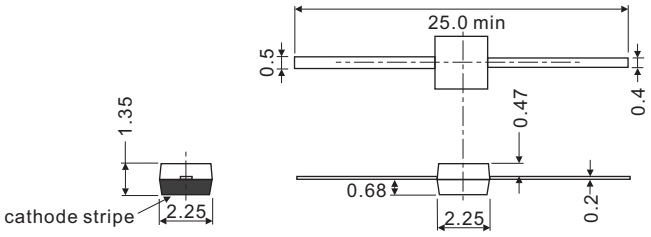




















IV1:Labsphere LED-1100 IV2:EXELTRON 2001.

Miniature Device LEDs



Ta=25°C

Device No	Color		Wavelength (nm)		VF Typical (V)	Brightness (mcd)		View Angle 2θ1/2
	Emitter	Lens	λp	λd		IV1	IV2	

Rectangular									UNIT:mm	
	HMIR-43		yellow green	Water clear	570	567	2.15	6.5	8.0	170
	HMIR-43PG		pure green		557	560	2.25	1.6	2.0	
	HMIR-43CG		super yellow green		570	567	2.15	12.1	15.0	
	HMIR-44		yellow		589	585	2.10	3.7	6.0	150
	HMIR-44AY		super yellow		592	590	2.00	40.0	80.0	
	HMIR-44WY		super yellow		592	590	2.10	160.0	320.0	
	HMIR-44WYA		super yellow		592	590	2.10	200.0	360.0	170
	HMIR-44HY		super yellow		592	590	2.10	180.0	330.0	
	HMIR-45		orange		625	618	2.05	3.7	6.5	
	HMIR-45AOR		super fresh red		635	625	2.00	47.5	114.0	170
	HMIR-46DR		super red		660	643	1.80	2.8	12.0	
	HMIR-46CR		super red		660	643	1.80	4.1	20.0	
	HMIR-46ARA		super red		660	645	1.86	27.0	116.0	150
	HMIR-46WOR		super fresh red		635	625	2.10	120.0	250.0	
	HMIR-46WORA		super fresh red		635	625	2.10	140.0	280.0	
	HMIR-46HOR		super fresh red		635	625	2.10	150.0	350.0	170
	HMIR-47HA		super amber		607	605	2.10	250.0	500.0	
	HMIR-48ABD		super blue		462	465	3.30	30.0	65.0	
HMIR-19AWE		super white	(x:0.29,y:0.30)		3.30	90.0	180.0	170		
HMIR-19YWE		warm	(x:0.40,y:0.41)		3.30	80.0	150.0			

IV1:Labsphere LED-1100 IV2:EXELTRON 2001.

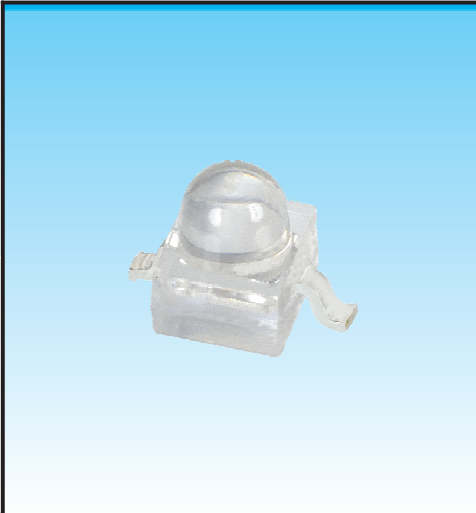


Miniature Device LEDs

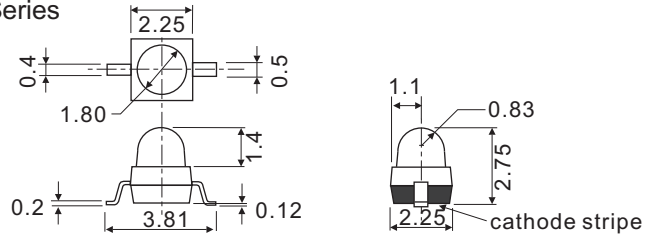
F7(Surface Mount)

Dimension:

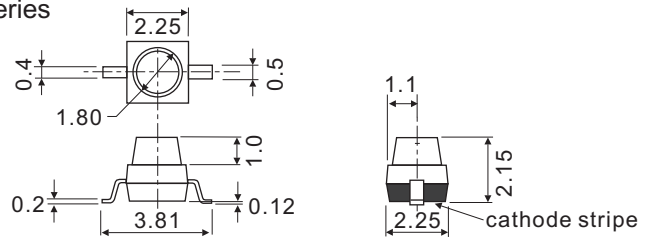
Unit : mm. Tolerance:0.15mm



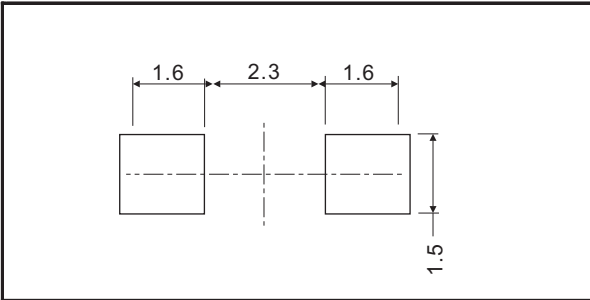
HMIB-XX/F7 Series



HMIC-XX/F7 Series

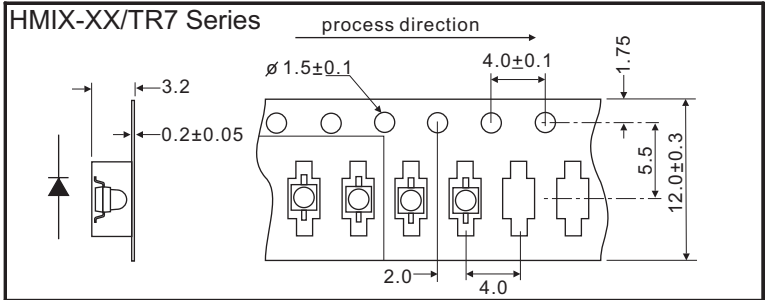


Recommended Soldering Pattern:



Tape Specifications:

(1,500pcs/Reel)



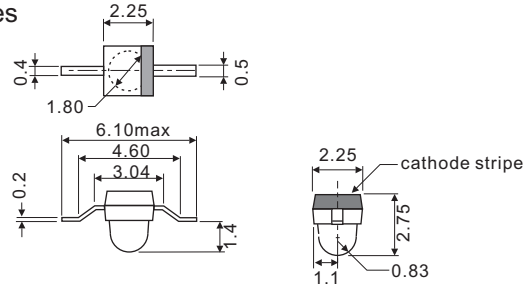
F8(Reverse Mount)

Dimension:

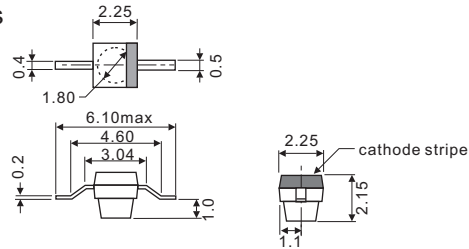
Unit : mm. Tolerance:0.15mm.



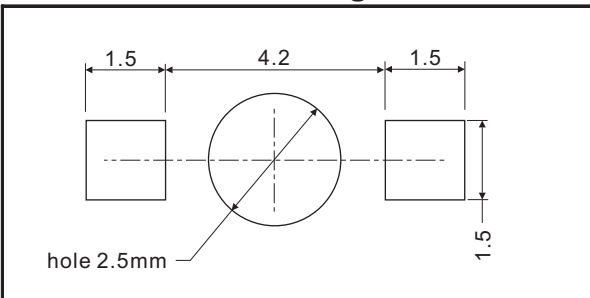
HMIB-XX/F8 Series



HMIC-XX/F8 Series



Recommended Soldering Pattern:



Tape Specifications:

(1,500pcs/Reel)

