

LED Panel Display

■ Absolute Maximum Ratings(Mold Type) Figures shown below are values per chip.

(Ta=25°C)

Type	Radiation size (mm)	Radiation color			Model No.	Power dissipation ¹ P (mW)	Forward current I _F (mA)	Peak forward current ² I _{FM} (mA)	Derating factor (mA/°C)		Reverse voltage V _R (V)	Operating temperature T _{opr.} (°C)	Storage temperature T _{stg.} (°C)
		Red	Yellow	Yellow-green					DC	Pulse			
Case mold	7.0×9.0	●			LT9002D	168	30	50	0.55	0.91	5	-20 to +70	-30 to +80
			●		LT9002H	100	20	50	0.36	0.91	5	-20 to +70	-30 to +80
				●	LT9002E	170	30	50	0.55	0.91	5	-20 to +70	-30 to +80
	7.0×19.0	●		●	LT9002ED	84	30	50	0.55	0.91	5	-20 to +70	-30 to +80
		●			LT9010D	252	30	50	0.55	0.91	5	-20 to +70	-30 to +80
			●		LT9010H	150	20	50	0.36	0.91	5	-20 to +70	-30 to +80
Built-in reflector mold	4.0×10.0			●	LT9010E	252	30	50	0.55	0.91	5	-20 to +70	-30 to +80
		●			LT9200D	168	30	50	0.55	0.91	5	-20 to +70	-30 to +80
			●		LT9200H	100	20	50	0.36	0.91	5	-20 to +70	-30 to +80
	11.4×13.9	●			LT9210D	336	30	50	0.55	0.91	5	-20 to +70	-30 to +80
			●		LT9210H	200	20	50	0.36	0.91	5	-20 to +70	-30 to +80
				●	LT9210E	336	30	50	0.55	0.91	5	-20 to +70	-30 to +80
	13.0×17.0	●			LT9220D	336	30	50	0.55	0.91	5	-20 to +70	-30 to +80
			●		LT9220H	200	20	50	0.36	0.91	5	-20 to +70	-30 to +80
				●	LT9220E	336	30	50	0.55	0.91	5	-20 to +70	-30 to +80
	7.0×16.0	●			LT9230D	252	30	50	0.55	0.91	5	-20 to +70	-30 to +80
			●		LT9230H	150	20	50	0.36	0.91	5	-20 to +70	-30 to +80
	Thin case mold	18.0×45.0	●			LT9310D	168	30	50	0.55	0.91	5	-20 to +70
			●		LT9310H	100	20	50	0.36	0.91	5	-20 to +70	-30 to +80
				●	LT9310E	168	30	50	0.55	0.91	5	-20 to +70	-30 to +80
13.1×65.0		●			LT9323D	504	30	50	0.55	0.91	5	-20 to +70	-30 to +80
			●		LT9323H	504	30	50	0.55	0.91	5	-20 to +70	-30 to +80
				●	LT9323E	504	30	50	0.55	0.91	5	-20 to +70	-30 to +80
13.5×102.0		●			LT9330D	840	30	50	0.55	0.91	5	-20 to +70	-30 to +80
			●		LT9330H	840	30	50	0.55	0.91	5	-20 to +70	-30 to +80
				●	LT9330E	840	30	50	0.55	0.91	5	-20 to +70	-30 to +80
Insert mold	7.0×9.0	●			LT9400D	336	30	50	0.55	0.91	5	-20 to +70	-30 to +80
				●	LT9400E	336	30	50	0.55	0.91	5	-20 to +70	-30 to +80
		●		●	LT9400ED	168	30	50	0.55	0.91	5	-20 to +70	-30 to +80

*1 Per dot

*2 Duty ratio=1/10, Pulse width=0.1ms

LED Panel Display

■ Electro-optical Characteristics(Mold Type) Figures shown below are values per chip.

(Ta=25°C)

Type	Radiation size (mm)	Radiation color			Model No.	Forward voltage V _F (V)		Luminous intensity ^{*1} I _v (mcd)	Peak emission wavelength λ _p (nm)	Spectrum radiation bandwidth Δλ(nm)		Reverse current I _R (μA)		
		Red	Yellow	Yellow- green		TYP.	MAX.			TYP.	TYP.	I _F (mA)	MAX.	V _R (V)
Case mold	7.0×9.0	●			LT9002D	2.0	2.8	10.0	635	35	20	10	4	
			●		LT9002H	1.9	2.5	15.0	585	30	10	10	4	
				●	LT9002E	2.1	2.8	20.0	565	30	20	10	4	
	7.0×19.0	●		●	LT9002ED ²	2.1/2.0	2.8/2.8	20.0/15.0	565/635	30/35	20	10	4	
		●			LT9010D	2.0	2.8	15.0	635	35	20	10	4	
			●		LT9010H	1.9	2.5	20.0	585	30	10	10	4	
Built-in reflector mold	4.0×10.0	●			LT9200D	2.0	2.8	9.5	635	35	20	10	4	
			●		LT9200H	1.9	2.5	4.0	585	30	10	10	4	
	11.4×13.9	●			LT9210D	2.0	2.8	40.0	635	35	20	10	4	
			●		LT9210H	1.9	2.5	9.0	585	30	10	10	4	
				●	LT9210E	2.1	2.8	45.0	565	30	20	10	4	
	13.0×17.0	●			LT9220D	2.0	2.8	70.0	635	35	20	10	4	
			●		LT9220H	1.9	2.5	20.0	585	30	10	10	4	
				●	LT9220E	2.1	2.8	45.0	565	30	20	10	4	
	7.0×16.0	●			LT9230D	2.0	2.8	25.0	635	35	20	10	4	
			●		LT9230H	1.9	2.5	20.0	585	30	10	10	4	
	Thin case mold	18.0×45.0	●			LT9310D	2.0	2.8	24.0	635	35	20	10	4
				●		LT9310H	1.9	2.5	6.0	585	30	10	10	4
				●	LT9310E	2.1	2.8	26.0	565	30	20	10	4	
13.1×65.0		●			LT9323D	2.0	2.8	8.0 ^{*3}	635	35	20	10	4	
			●		LT9323H	2.0	2.8	8.5 ^{*3}	585	30	20	10	4	
				●	LT9323E	2.1	2.8	11.0 ^{*3}	565	30	20	10	4	
13.5×102.0		●			LT9330D	2.0	2.8	100.0	635	35	20	10	4	
			●		LT9330H	2.0	2.8	70.0	585	30	20	10	4	
				●	LT9330E	2.1	2.8	170.0	565	30	20	10	4	
Insert mold	7.0×9.0	●			LT9400D	2.0	2.8	52.0	635	35	20	10	4	
				●	LT9400E	2.1	2.8	70.0	565	30	20	10	4	
		●		●	LT9400ED ²	2.1/2.0	2.8/2.8	43/35	565/635	30/35	20	10	4	

*1 Per dot

*2 Each figure shown in the table is yellow-green/red.

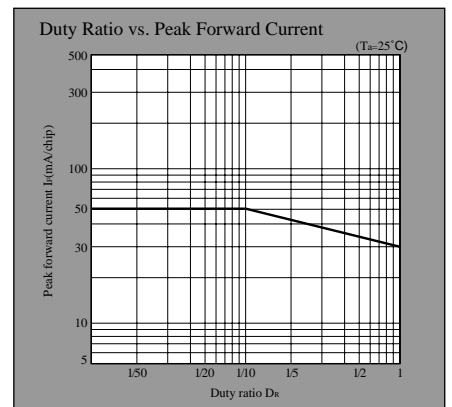
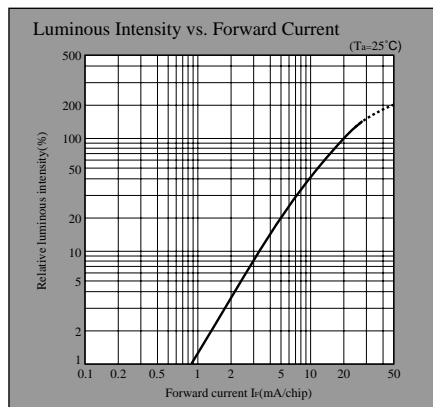
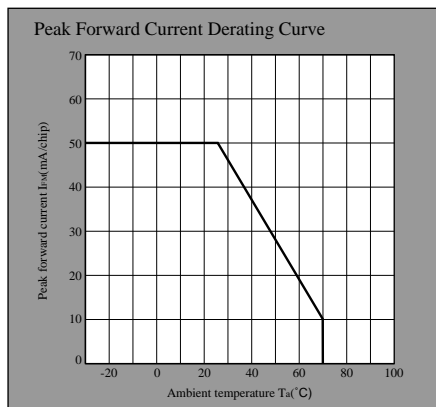
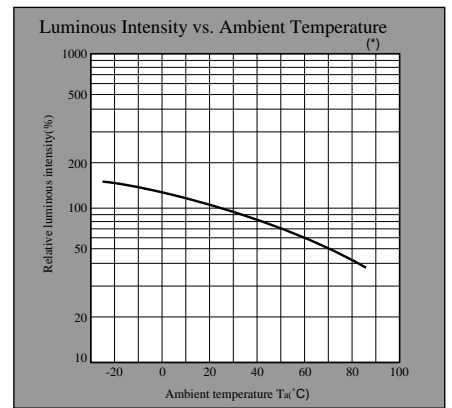
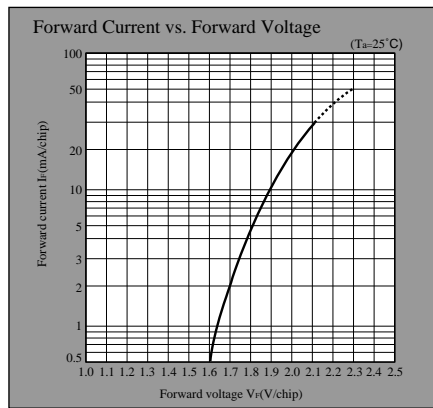
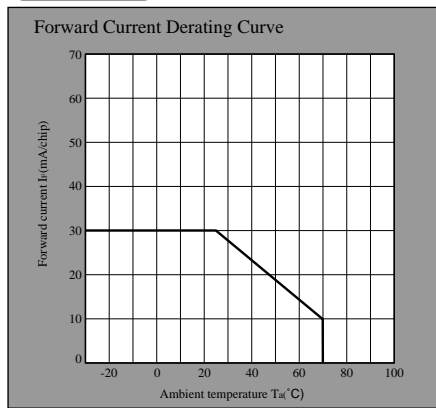
*3 L_v(mcd/cm²)

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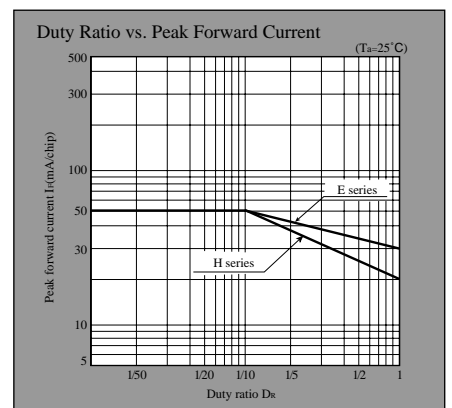
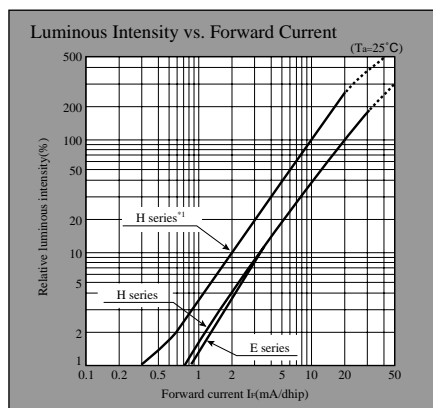
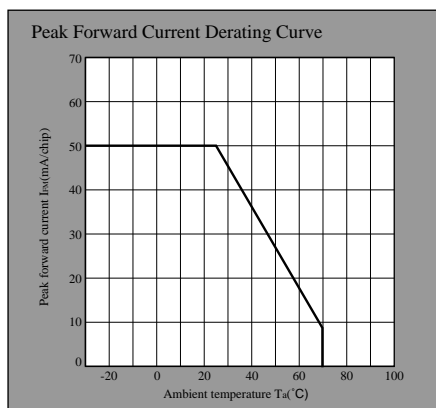
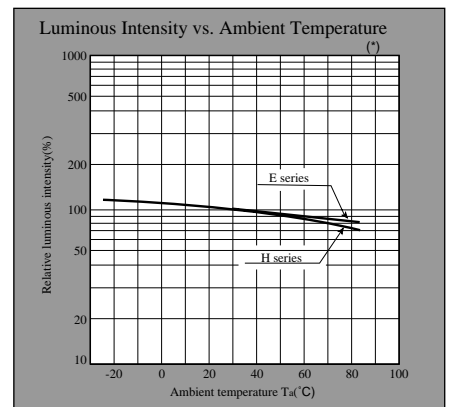
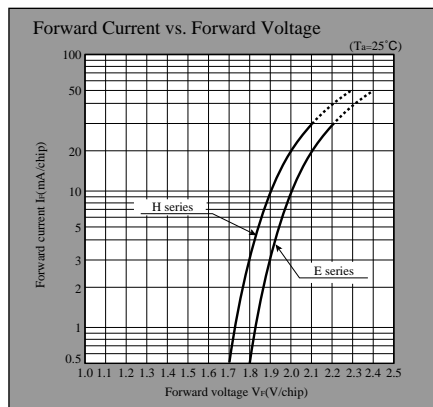
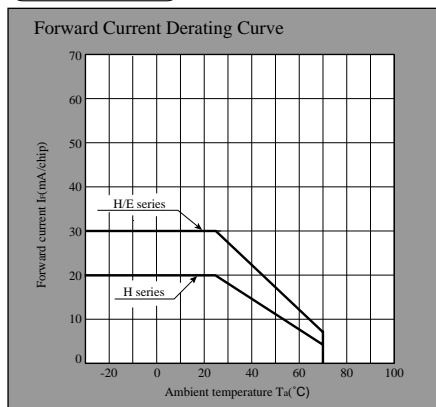
LED Panel Displays Characteristics Diagrams

D series



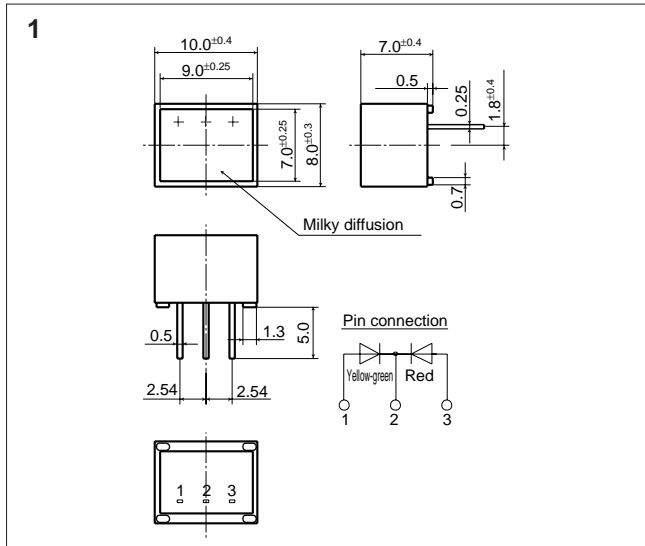
* As for current conditions, refer to I_f in electro-optical characteristics

H/E series

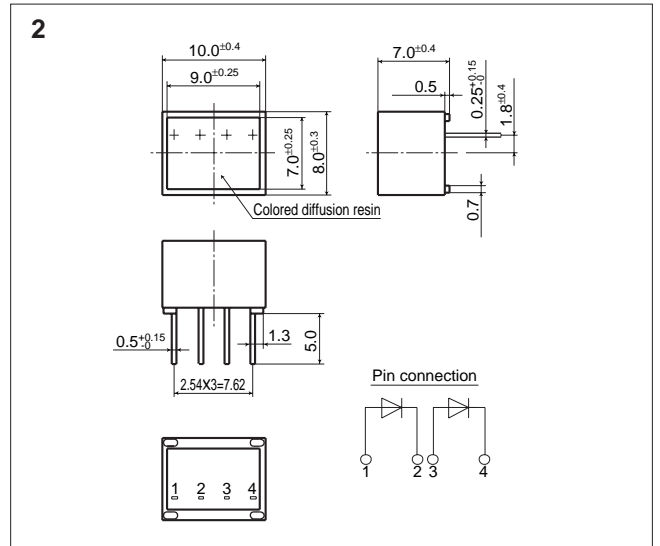


* As for current conditions, refer to I_f in electro-optical characteristics *H series $I_f=10\text{mA}$

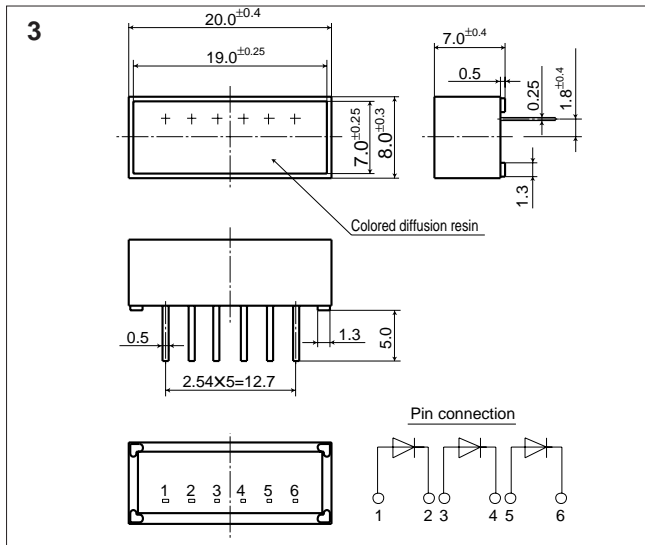
LED Panel Display Outline Dimensions(Unit:mm)



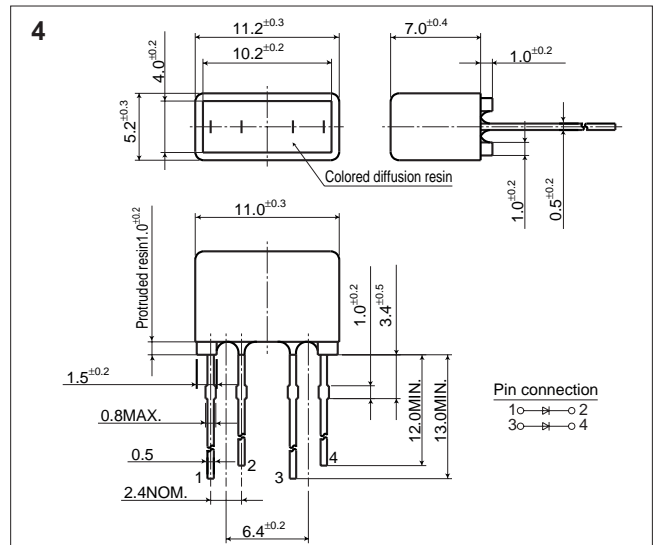
LT9002ED(Dichromatic emission)



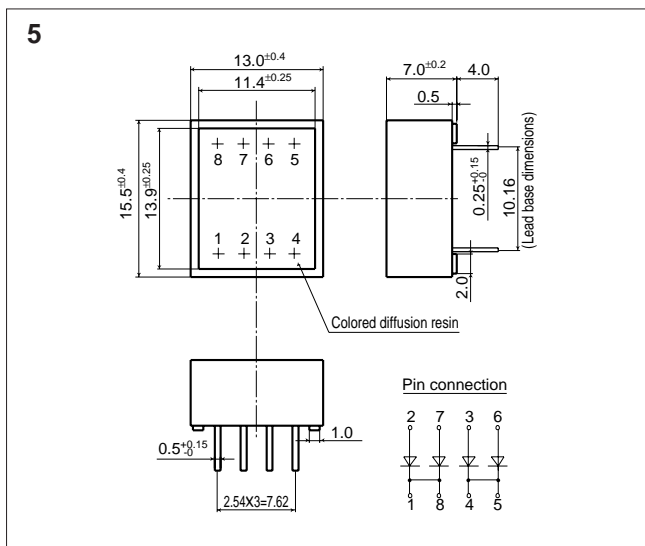
LT9002□ Series(Single color emission)



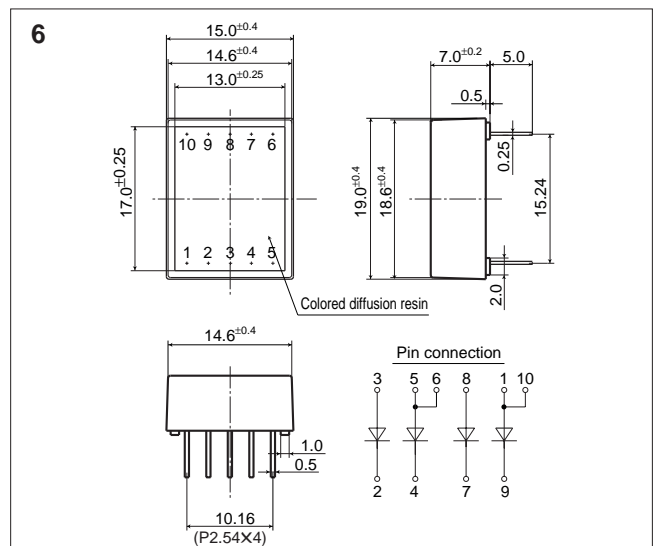
LT9010□ Series



LT9200□ Series



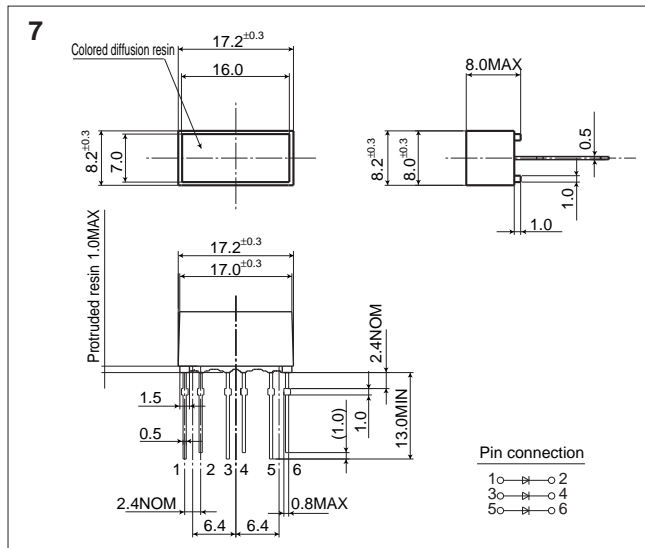
LT9210□ Series



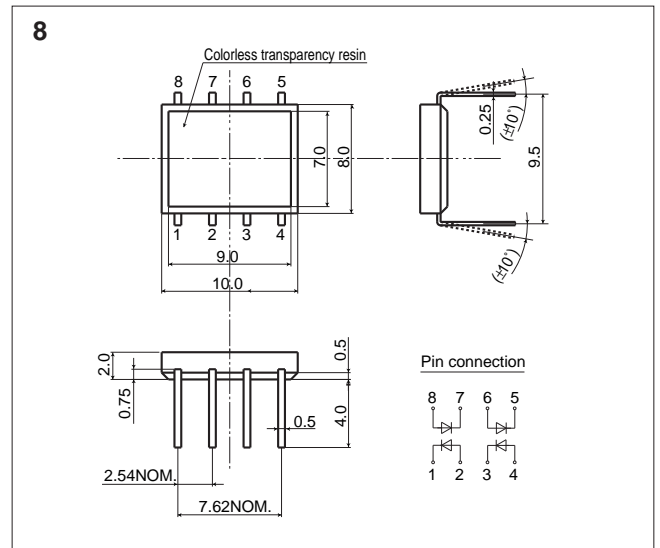
LT9220□ Series

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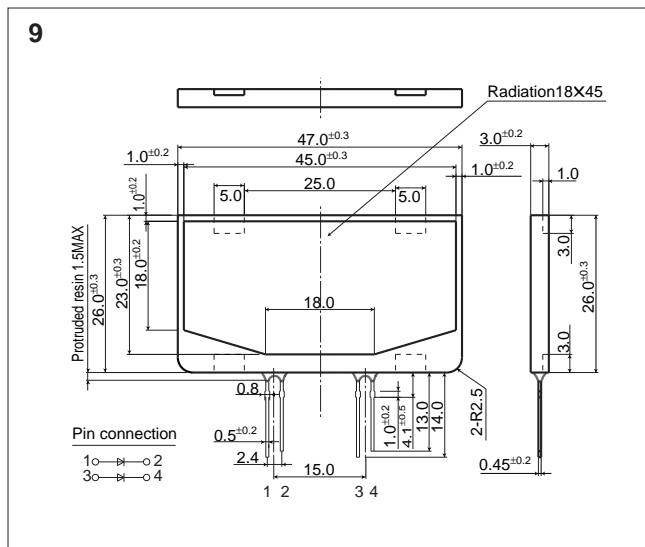
LED Panel Display Outline Dimensions(Unit:mm)



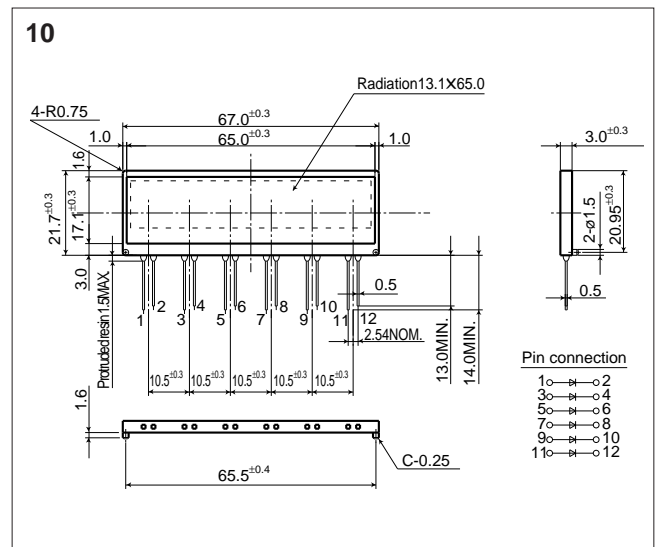
LT9230□ Series



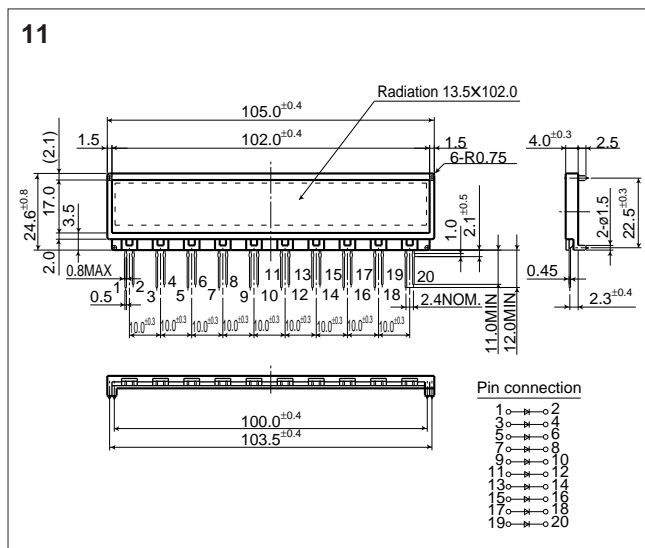
LT9400□ Series,LT9400ED



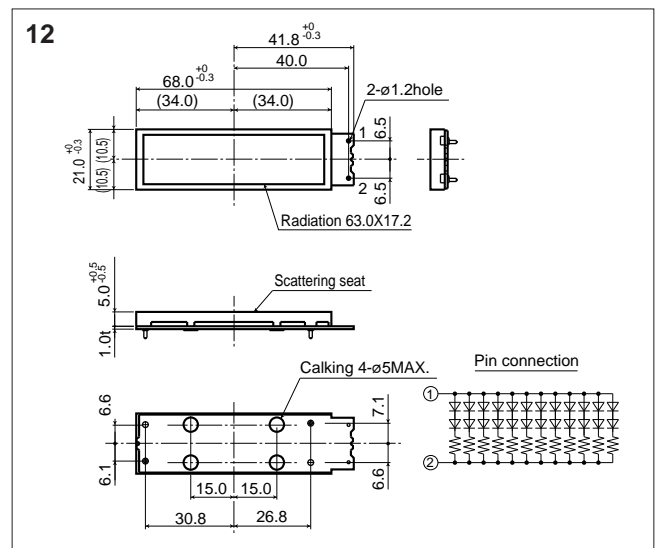
LT9310□ Series



LT9323□ Series



LT9330□ Series



LT4082□ Series

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