

LT5200M

4X4 Dichromatic Dot Matrix LEDs

■ Model No.

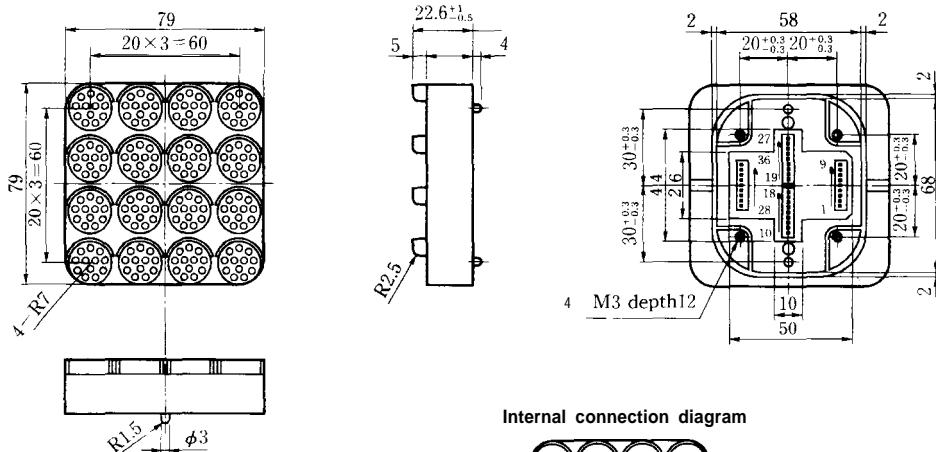
LT5200M Yellow-green GaP
Red(Super-luminosity) GaAlAs/GaAlAs

■ Features

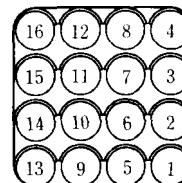
1. Waterproof package with hood
2. Radiation color : Yellow-green, red and orange(mixed color)
3. Best suitable for outdoor and indoor information boards

■ Outline Dimensions

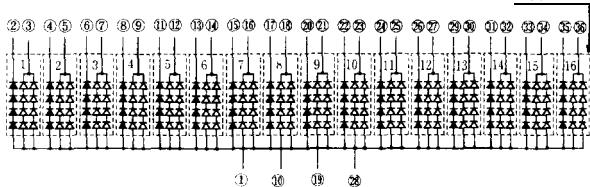
(Unit : mm)



Internal connection diagram



Dot No.



LT5200M

■ Absolute Maximum Ratings(Per dot)

(Ta=25°C)

Parameter	Symbol	LT5200M			J _{nit}
		Yellow-green	Red	Blue	
*1 Power dissipation	P	8.84	3.84	—	W
Continuous forward current	I _F	60	30	—	mA
Peak forward current	I _{FM}	—	—	—	mA
Derating factor	DC	—	—	—	nA/°C
	Pulse	—	—	—	nA/°C
Reverse voltage	V _R	15	—	—	V
Operating temperature	T _{opr}	—	—20 to +70	—	°C
Storage temperature	T _{stg}	—	—25 to +100	—	°C
Soldering temperature	T _{sol}	—	—	—	°C

*1 Per device

LT5200M(Yellow-green/Red)

■ Electro-optical Characteristics(Per dot)

(Ta = 25°C)

Parameter	Symbol	Radiation color	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V _F	Yellow-green	I _F = 40mA		8.4	9.2	V
		Red	I _F = 20mA		7.4	8.0	
*2 Luminous intensity	I _V	Yellow-green	I _F = 40mA	720	1200	--	cd/m ²
		Red	I _F = 20mA	1800	3000	--	
Peak emission wavelength	λ_p	Yellow-green	I _F = 40mA		565	--	'm
		Red	I _F = 20mA		660	--	
Spectrum radiation bandwidth	$\Delta\lambda$	Yellow-green	I _F = 40mA		30	--	' m
		Red	I _F = 20mA		20	--	
Reverse current	I _R	Yellow-green	V _R = 15V			100	μ A
		Red	V _R = 15V			100	
Terminal capacitance	C _t	Yellow-green	--				pF
		Red	--				
Response frequency	f _c	Yellow-green	--		0.8	--	MHz
		Red	--		7	--	

※2 Per device, Tolerance : $\pm 20\%$

■ Characteristics Diagrams

