

DESCRIPTION

MT7CA-1 is a 22mm square full spectrum rainbow LED lamp cluster consists of 7 pieces of 5.5mm diameter oval type ultra high brightness output LED with 3 pcs of AlGaInP orange, 2 pcs of InGaN green 2pc of InGaN blue.

These clusters are most suitable for information boards, highway sign boards, traffic lights, subway signal lamps etc.

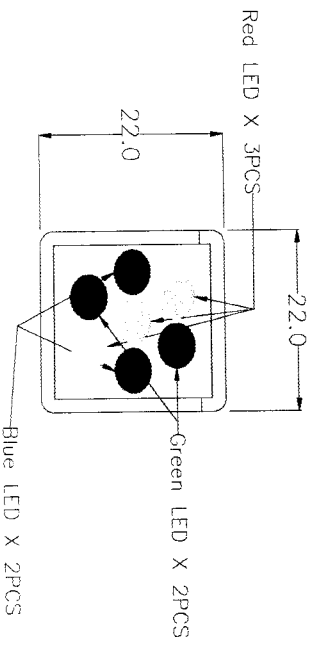
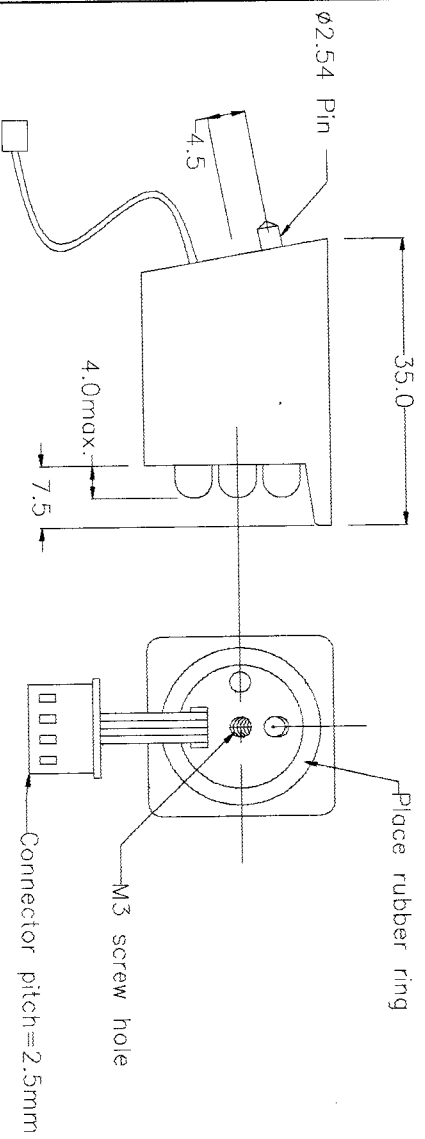
ABSOLUTE MAXIMUM RATINGS

	<u>Orange</u>	<u>Green</u>	<u>Blue</u>
Power Dissipation @ Ta=25°C	270mW	270mW	270mW
Forward Current, DC (IF)	30mA	30mA	30mA
Reverse Voltage	15V	10V	10V
Operating Temperature		-40 to +80°C	
Storage Temperature		-50 to +80°C	

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	CONDITIONS
Forward Voltage	Orange		6.3	9.0	V	IF=20mA
	Green		7.0	9.0	V	IF=20mA
	Blue		7.0	9.0	V	IF=20mA
Reverse Current	Orange			100	μA	VR=15V
	Green			100	μA	VR=10V
	Blue			100	μA	VR=10V
Luminous Intensity	Orange	1800	2400		mcd	IF=20mA
	Green	800	1600		mcd	IF=20mA
	Blue	360	440		mcd	IF=20mA
Peak Wavelength	Orange	620	625	630	nm	IF=20mA
	Green		505		nm	IF=20mA
	Blue		470		nm	IF=20mA
Spectral Line Half Width	Orange		17		nm	IF=20mA
	Green		30		nm	IF=20mA
	Blue		26		nm	IF=20mA
Wide Viewing Angle	2 θ _{1/2}		100		degree	IF=60mA

MECHANICAL OUTLINE



All dimension in mm
No scale
Tol. : +/-0.3mm

CIRCUIT DIAGRAM

