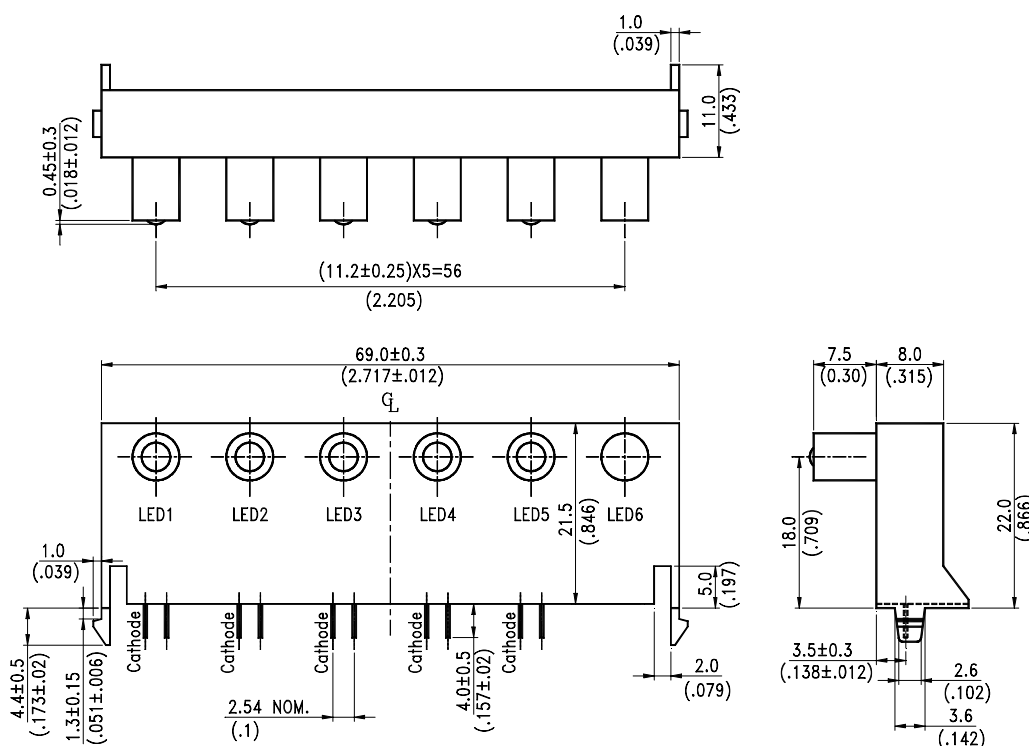


Features

- * Designed for ease in circuit board assembly.
- * Black case enhance contrast ratio.
- * Solid state light source.
- * Reliable and rugged.

Package Dimensions



Part No.	Lens	Source
LTL-		Color
4232NL	Green Transparent	Green
4222NL	Red Transparent	Hi.Eff.Red

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 mm(.010") unless otherwise noted.
3. The holder color is black.
4. The holder raw material is nylon.
5. The LED1&LED2&LED4 are LTL-4222NL.
The LED3&LED5 are LTL-4232NL.
The LED6 is empty.



L I T E - O N E L E C T R O N I C S , I N C .

Property of Lite-On Only

Absolute Maximum Ratings at Ta=25°C

Parameter	Green	Hi.Eff.Red	Unit
Power Dissipation	100	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	120	120	mA
Continuous Forward Current	30	30	mA
Derating Linear From 50°C	0.4	0.4	mA/°C
Reverse Voltage	5	5	V
Operating Temperature Range	-55°C to + 100°C		
Storage Temperature Range	-55°C to + 100°C		
Lead Soldering Temperature [1.6mm(.063") From Body]	260°C for 5 Seconds		

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	LTL-42M2NH72	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _v	Green Hi.Eff.Red	12.6 8.7	40 29		mcd	I _F = 10mA Note 1,4
Viewing Angle	2θ _{1/2}	Green Hi.Eff.Red		45		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λ _p	Green Hi.Eff.Red		565 635		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λ _d	Green Hi.Eff.Red		569 623		nm	Note 3
Spectral Line Half-Width	Δλ	Green Hi.Eff.Red		30 40		nm	
Forward Voltage	V _F	Green Hi.Eff.Red		2.1 2.0	2.6 2.6	V	I _F = 20mA
Reverse Current	I _R	Green Hi.Eff.Red			100	μA	V _R = 5V
Capacitance	C	Green Hi.Eff.Red		35 20		pF	V _F = 0, f = 1MHz

- Note: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ_{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength, λ_d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
4. I_v needs ±15% additional for guaranteed limits.

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

