

Model No.170-3-650

Features:

- Wavelength: 650nm
- Optical output power: $\leq 3\text{mW}$
- Low operating current: $< 30\text{mA}$
- Low operating voltage: 3-5VDC
- Class IIIa laser, CDRH/ROHs compatible
- Static, Surge, and Reverse Polarity Protected
- Circuit control: Auto power control (APC)
- Operating Temperature: -10 to 50 degree C

Absolute Maximum Ratings

Parameter:	Symbol:	Rating:	Unit:
Optical Output Power	Po	≤ 3.0	mW
Operating Temperature	Topr	-10 to +50	°C
Storage Temperature:	Tstg	-40 to +80	°C
Operating Humidity (none condensing)	RHopr	90	%

Optical and Electrical Characteristics

Parameter:	Specifications:	Test Conditions:
Wavelength:	650nm	Tc=25°C
Output Power:	$\leq 3.0\text{mW}$	Tc=25°C
Output Aperture:	$\phi 2.5\text{mm}$	Factory Fixed
Dot Size:	4x8mm (@10m)	Factory Fixed @ 20m
	8x16mm (@20m)	
Divergence:	0.6mrad	Tc=25 \pm 3°C
Optics:	Plastic Lens	
Operating Current:	$< 50\text{mA}$	Tc=25 \pm 3°C
Operating Voltage:	3-5VDC (red lead +; black lead -)	
CDRH Class:	Class IIIa	
MTTF:	5000 Hrs.	Tc=25 \pm 3°C

Mechanical Characteristics

Parameter:	Specifications:
Dimensions:	7(D) x 21(L)mm
Cable Length	100mm
Case Material	Brass
Vibration:	DIN EN 60068-2-6 Standard
Shock:	DIN EN 60068-2-29 Standard