



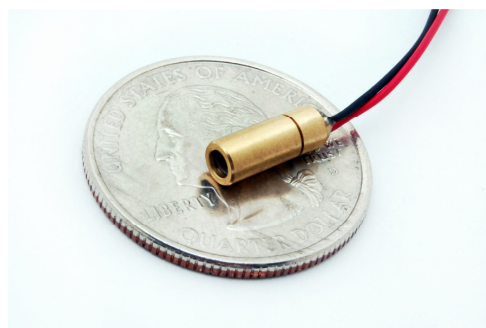
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Model No.167-3-650 or 167-5-650

Features:

- Wavelength: 650nm
- Optical output power: ≤ 3 or 5mW
- Low operating current: < 30 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 | $\leq 3, \leq 5$ | 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: | $\leq 3, \leq 5$ mW | Tc=25°C |
| Output Aperture: | $\phi 2.4$ mm | Factory Fixed |
| Dot Size: | 5x10mm (@10m) | Factory Fixed @ 20m |
| | 10x20mm (@20m) | |
| Divergence: | 0.8mrad | Tc=25+3°C |
| Optics: | Glass Lens | |
| Operating Current: | < 50 mA | Tc=25+3°C |
| Operating Voltage: | 3VDC (red lead +; black lead -) | |
| CDRH Class: | Class IIIa | |
| MTTF: | 10000 Hrs. | Tc=25+3°C |

Mechanical Characteristics

| Parameter: | Specifications: |
|---------------|----------------------------|
| Dimensions: | 4.0(D) x 10(L)mm |
| Cable Length | 100mm |
| Case Material | Brass |
| Vibration: | DIN EN 60068-2-6 Standard |
| Shock: | DIN EN 60068-2-29 Standard |