

**LMS**

# LED48-05

## Light Emitting Diode

| Parameter                 | Rating                 | units         | Conditions      |
|---------------------------|------------------------|---------------|-----------------|
| Peak emission wavelength  | 4.8                    | $\mu\text{m}$ | 300K            |
| Spectral bandwidth (FWHM) | 0.5                    | $\mu\text{m}$ | 300K            |
| Max.emission power        |                        |               |                 |
| @ I=100 mA                | 10                     | $\mu\text{W}$ | CW mode         |
| @ I=1-5 A                 | 1                      | mW            | pulsed* mode    |
| Response time             | 100                    | nS            |                 |
| Temperature drift of band | 2                      | nm/K          |                 |
| Encapsulation             | TO-18 (TO-5,TO-8 opt.) |               | Sapphire window |
| Efficiency, % (not less)  | 0.01                   |               |                 |
| Field of View             | 60                     | deg.          |                 |

**Notes:**

- recommended detector is room temperature photovoltaic MCT detector model PDI-5 or TE-cooled photovoltaic MCT model PDI-2TE-5; or room temperature photoconductive MCT detector PCI-5 or TE-cooled photoconductive detector model PCI-2TE-5
- DO NOT connect/disconnect the LED while the pulse generator is in operation
- \* I = 1.0 - 3.0 A, pulse width =  $5\mu\text{s}$  @ f = 500Hz repetition rate

