

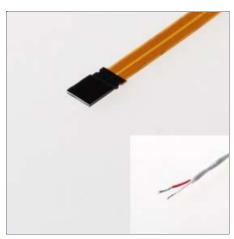
Electro Optical Components, Inc.

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gSKIN®-XB 46 9R



Radiation Sensor Size: 4.4mm x 4.4mm Sensitvity: >70mV/W

Features

- Highly sensitive thermal detectors
- Flat sensitivity curve across broad spectral range up to 15 μm
- Ultra-low noise
- 100 μW to 16 W power range
- Fast response time
- Compact design
- Homogeneous
- Linear power response
- Available with NIST/PTB traceable calibration

| | gSKIN®-XB 46 9R |
|---|------------------------|
| Article Number | A-044395 |
| Detector Type | thermal absorber |
| Spectral Range [µm] | 0.19 - 15 |
| Sensing Area (a x b) [mm x mm] | 4.4 x 4.4 |
| Sensor Thickness (d) [mm] | 0.6 |
| Max. Power [W] | 1 |
| Noise Equivalent Power ^a [μW] | 7 |
| Typical Power Resolution with gSKIN [®] DLOG ^b [μW] | 9 |
| Max. Average Power Density [W/cm²] | 500 |
| Min. Sensitivity ^c (Z) [mV/W] | 70 |
| Temperature Dependence of Z [%/°C] | 0.125 |
| Response Time (0-95%) [s] | 0.8 ^d / 2.8 |
| Operating Temperature Range Min / Max [°C] | -50 / 150 |
| Cooling Method | conduction, convection |
| Homogeneity ^e [±%] | 1 |
| Linearity with Power [±%] | 0.5 |
| Flexprint Length [cm] | 5 |
| Cable Length [cm] (Connector) | 100 (no) |

^a Experimentally evaluated values under optimal steady state conditions.

^b Guaranteed minimum heat flux resolution using the gSKIN[®] DLOG-4219.

^c For applications with highest precision requirements, greenTEG recommends an optical calibration once the gSKIN® sensor is integrated into the final system. NIST/PTB traceable calibration upon request.

^d Anticipated signal.

^e Position dependent signal change across sensing area for beam diameters down to 1.5mm.