



Electro Optical Components, Inc.

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gSKIN®-XB 46 9R



Radiation Sensor
Size: 4.4mm x 4.4mm
Sensitivity: >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/cm^2]	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.