



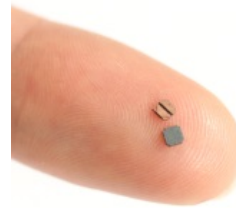
# gSKIN

## OEM Heatflux Sensor

**Preliminary !!!**

### FEATURES

- Very compact heatflux sensor
- Easy integration by pick & place and subsequent reflow soldering
- Passive sensor element usable with long cables or mounted on PCBs
- Minimal invasiveness & thickness
- Ultra-low noise based on low impedance
- Attractive OEM pricing



<b>Product Name</b>	<b>gSKIN® XU 22 9C</b>
<b>Article Number</b>	A-044801
Detector Type	Thermoelectric
Surface Material (Sensing Area)	Anodized Aluminum
Sensing Area (a x b) [mm x mm]	2x2
Sensor Thickness (d) [mm]	0.5
Heat Flux Range Min / Max [kW/m <sup>2</sup> ]	-125 / 125
Min. Sensitivity (S) [μV/(W/m <sup>2</sup> )]	0.3
Noise Equivalent Heat Flux <sup>a</sup> per area [W/m <sup>2</sup> ] / absolute [μW]	1.000 / 4.0
Heat Flux Resolution per area [W/m <sup>2</sup> ] / absolute [μW] with gSKIN® DLOG <sup>b</sup>	1.300 / 5.2
Temperature Difference Resolution [μK]	~790
Temperature Dependence of S [%/°C]	0.25
Response Time (0-95%) [s]	0.7
Electrical Resistance [Ohm]	<5
Absolute Thermal Resistance <sup>c</sup> [K/W]	~198
Max. Compressive Force when clamped [kgf]	<0.4
Operating Temperature Range Min/Max [°C]	-50 / 150
Cooling Method	conduction, convection
Electrical Connection (Solder Pads)	Bottom side

<sup>a</sup> Experimentally evaluated values under optimal steady state conditions.

<sup>b</sup> Guaranteed minimum heat flux resolution using the gSKIN® DLOG-4219.

<sup>c</sup> Based on +/- 30% range