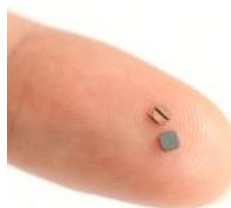


gSKIN

OEM Heatflux Sensor

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



Product Name	gSKIN® XU 22 9C
Article Number	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 ²]	-235 / 235
Min. Sensitivity (S) [μV/(W/m ²)]	0.3
Noise Equivalent Heat Flux ^a per area [W/m ²] / absolute [μW]	1.000 / 4.0
Heat Flux Resolution per area [W/m ²] / absolute [μW] with gSKIN® DLOG ^b	1.300 / 5.2
Temperature Difference Resolution [μK]	~420
Temperature Dependence of S [%/°C]	0.127
Response Time (0-95%) [s]	0.7
Electrical Resistance [Ohm]	<5
Absolute Thermal Resistance ^c [K/W]	~105
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

^a Experimentally evaluated values under optimal steady state conditions.

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

^c Based on +/- 30% range

Datasheet V1.0, © Copyright greenTEG AG, 2019 All Rights Reserved