gSkin-XU

OEM heatflux sensor

FEATURES

- Very compact heatflux sensor
- Easy integration by pick & place and subsequent reflow soldering (SMD)
- Passive sensor element
- Minimal invasiveness & thickness
- Ultra-low noise based on low impedance
- Attractive OEM pricing

Product Name	
Detector Type	Thermoelectric
Surface Material (Sensing Area)	Copper
Sensing Area (a x b) [mm x mm]	2x2
Sensor Thickness (d) [mm]	0.5
Heat Flux Range Min / Max [kW/m^2]	-150 / 150
Min. Sensitivity (S) [µV/(W/m^2)]	0.8
Heat Flux Resolution per area [W/m^2] / absolute [µW] with gSKIN® DLOG[b]	2 / 8
Temperature Dependence of S [%/°C]	0.25
Response Time (0-95%) [s]	0.7
Electrical Resistance [Ohm]	<10
Absolute Thermal Resistance[c] [K/W]	~198
Max. Compressive Force when clamped [kgf]	< 0.5
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

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