



gSKIN[®] Heat Flux Sensor

FEATURES

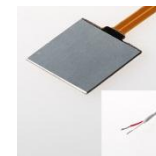
- High sensitive thermal detectors
- -150 kW/m² to 150 kW/m² range
- Minimal invasiveness
- Ultra-low noise
- Fast response time
- Compact design
- Homogeneous
- Available with conductive heat flux calibration
- Attractive OEM pricing



gSKIN[®]-XB 26 9C



gSKIN[®]-XP 26 9C



gSKIN[®]-XI 26 9C



gSKIN[®]-XO 66 7C



gSKIN[®]-XB 27 9C



gSKIN[®]-XP 27 9C



gSKIN[®]-XI 27 9C



gSKIN[®]-XO 67 7C

Product Name	gSKIN [®]		gSKIN [®]		gSKIN [®]		gSKIN [®]	
	XB 26 9C	XB 27 9C	XP 26 9C	XP 27 9C	XI 26 9C	XI 27 9C	XO 66 7C	XO 67 7C
Article Number	A-044335	A-044338	A-044572	A-044576	A-044627	A-044629	A-044713	A-044716
Detector Type	thermoelectric		thermoelectric		thermoelectric		thermoelectric	
Surface Material (Sensing Area)	Aluminum		Aluminum		Aluminum		Silicone	
Sensing Area (a x b) [mm x mm]	4.4 x 4.4		10.0 x 10.0		18.0 x 18.0		30.0 x 30.0	
Sensor Thickness (d) [mm]	0.5		0.5		0.5		2.0	
Heat Flux Range Min / Max [kW/m ²]	-150 / 150		-150 / 150		-150 / 150		-25 / 25	
Noise Equivalent Heat Flux ^a [W/m ²]	0.340		0.073		0.023		0.073	
Heat Flux Resolution with gSKIN [®] DLOG ^b [W/m ²]	0.41		0.09		0.03		0.09	
Min. Sensitivity (S) [μV/(W/m ²)]	1.5		7.0		22.0		7.0	
Temperature Dependence of S [%/°C]	0.25		0.25		0.25		0.25	
Response Time (0-95%) [s]	0.2 ^c / 0.7		0.2 ^c / 0.7		0.2 ^c / 0.7		n/a	
Electrical Resistance [Ohm]	<20		<100		<400		<100	
Absolut Thermal Resistance [K/W]	~18.0		~3.5		~1.0		~2.8	
Operating Temperature Range Min/Max [°C]	-50 / 150		-50 / 150		-50 / 150		-40 / 100	
Calibration Temperature Range Min/Max ^d [°C]	-30 / 70		-30 / 70		-30 / 70		-30 / 70	
Calibration Accuracy [±%]	3		3		3		3	
Homogeneity ^e [±%]	1		1		1		1	
Linearity with Power [±%]	1		1		1		1	
Flexprint Length (f) [cm]	5		5		5		5	
Cable Length (c) [cm] (Connector)	100 (no)	100 (yes)	100 (no)	100 (yes)	100 (no)	100 (yes)	100 (no)	100 (yes)

^a Experimentally evaluated values under optimal steady state conditions.

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

^c Anticipated signal.

^d Calibration service upon request: conductive heat flux calibration cohering to the ISO8301 standard with mean temperature of 22.5 °C.

^e Position dependent signal change across sensing area.

