

Vishay Sfernice

Current Sensing Wirebondable Thin Film Chip Resistors



This thin film chip resistor fits applications as force balance scales, E beam deflection systems, switching power supplies, etc... all rely on current sensors to feed back and control the current.

Gold pads are compatible with thermosonic or ultrasonic bonding of gold and aluminum wires.

FEATURES

- Low ohmic value down to 0.05 Ω
- Tolerance down to 1 %
- Stability 0.1 % < 2000 h at Pn at + 70 °C
- Low noise < 35 dB
- Low TCR 100 ppm/°C
- Wirebondable
- Material categorization: For definitions of compliance please see www.vishav.com/doc?99912





STANDARD ELECTRICAL SPECIFICATIONS								
MODEL SIZE		RESISTANCE RANGE Ω	RATED POWER P _{70 °C} W	TOLERANCE ± %	TEMPERATURE COEFFICIENT ± ppm/°C			
SA	0606	0.05 to 1	0.5	1, 2, 5	50 ⁽¹⁾ , 100			
SB	1212	0.05 to 1	2	1, 2, 5	50 ⁽¹⁾ , 100			
SC	2020	0.05 to 1	6	1, 2, 5	50 ⁽¹⁾ , 100			

Note

⁽¹⁾ On request

CLIMATIC SPECIFICATIONS			
Operating temperature range	- 55 °C to + 125 °C		
Storage temperature range	- 55 °C to + 155 °C		

MECHANICAL SPECIFICATIONS				
Substrate	Alumina			
Resistive element	NiCr			
Glassivation	Ta ₂ O ₅			
Bonding pads	Gold			
Backside metallization	On request Ni Au			

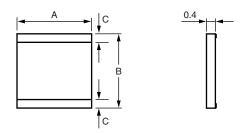
TOLERANCE VS. OHMIC VALUE				
OHMIC VALUE RANGE Ω	TOLERANCE ± %			
0.05 ≤ <i>R</i> < 1	5			
0.2 ≤ <i>R</i> < 1	2			
0.5 ≤ <i>R</i> < 1	1			

Note

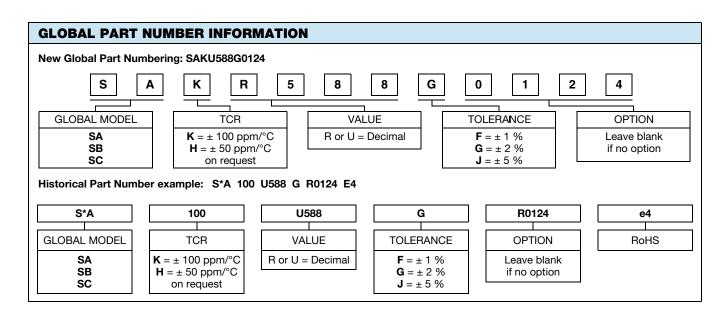
• Higher values and higher tolerances on request.



DIMENSIONS in millimeters



SERIES DISSIPATION	POWER	DIMENSIONS		
SERIES DISSIPATION		Α	В	С
SA	0.5 W	1.5	1.5	0.2
SB	2 W	3	3	0.4
SC	6 W	5	5	0.5





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