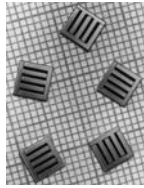


Current Sensing Bondable Chip Resistors



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
- Wire bondable
- Compliant to RoHS directive 2002/95/0EC

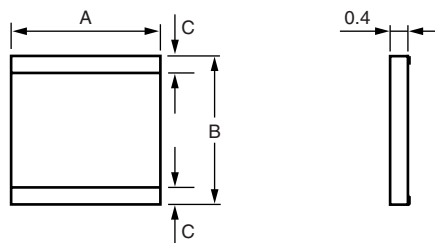


RoHS
COMPLIANT
GREEN
(5-2009)**

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.

DIMENSIONS in millimeters



SERIES DISSIPATION	POWER	DIMENSIONS		
		A	B	C
SA	0.5 W	1.5	1.5	0.2
SB	2 W	3	3	0.4
SC	6 W	5	5	0.5

ELECTRICAL SPECIFICATIONS

Ohmic values and associated tolerance:

$0.05 \Omega \leq R < 0.2 \Omega \pm 5 \%$
 $0.2 \Omega \leq R < 0.5 \Omega \pm 2 \%$
 $0.5 \Omega \leq R < 1 \Omega \pm 1 \%$
 higher values and higher tolerances on request

Power dissipation at + 70 °C: SA: 0.5 W
SB: 2 W
SC: 6 W

Temperature coefficient: ± 100 ppm/°C
 ± 50 ppm/°C on request

Noise: - 35 dB maximum

Low ohmic value chip resistors are also available with solderable or weldable wraparound terminations.

MECHANICAL SPECIFICATIONS

Substrate: Alumina
Resistive element: NiCr
Glassivation: Ta₂O₅
Bonding pads: Gold
Backside metallization: On request Ni Au

ENVIRONMENTAL SPECIFICATIONS

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

** Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902



GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: SAKU588G0124

S	A	K	U	5	8	8	G	0	1	2	4
GLOBAL MODEL		TCR		VALUE		TOLERANCE		OPTION			
SA SB SC		K = ± 100 ppm/ $^{\circ}$ C H = ± 50 ppm/ $^{\circ}$ C on request		R or U = Decimal		F = ± 1 % G = ± 2 % J = ± 5 %		Leave blank if no option			

Historical Part Number example: S*A 100 U588 G R0124 e4

S*A	100	U588	G	R0124	e4
GLOBAL MODEL	TCR	VALUE	TOLERANCE	OPTION	RoHS
SA SB SC	K = ± 100 ppm/ $^{\circ}$ C H = ± 50 ppm/ $^{\circ}$ C on request	R or U = Decimal	F = ± 1 % G = ± 2 % J = ± 5 %	Leave blank if no option	



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