

FEATURES

- Extremely low resistance and high precision tolerance
- Low T.C.R. achieved (± 50 ppm/ $^{\circ}\text{C}$)
- Flameproof UL94-V-0
- Marking: Black body color with white marking

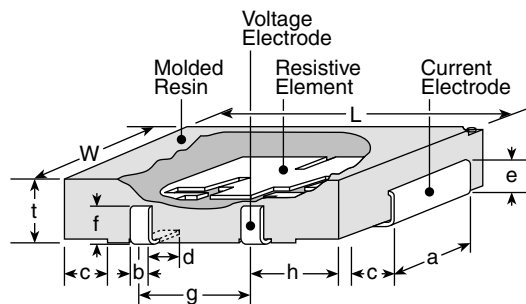
SPECIFICATIONS

TCR max.: ± 50 ppm/ $^{\circ}\text{C}$
 Rated Ambient Temp: $+70^{\circ}\text{C}$
 Oper. Temp. Range:
 $-55^{\circ}\text{C} - +125^{\circ}\text{C}$

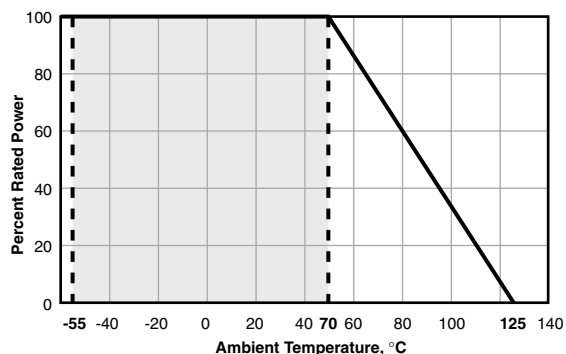


RW1/RW2 Series

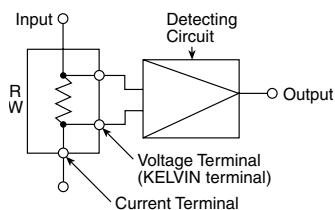
Surface Mount Four Terminal Current Sense



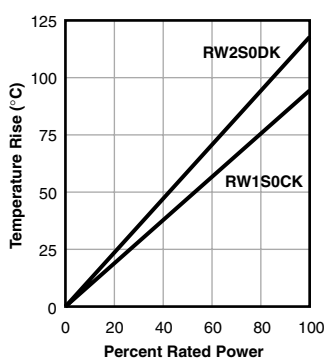
DERATING



TYPICAL SCHEMATIC

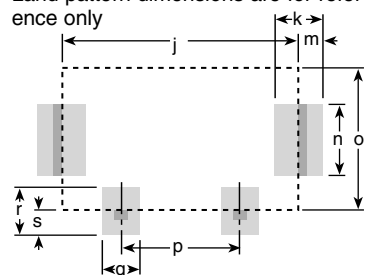


SURFACE TEMP. RISE



LAND PATTERN

Land pattern dimensions are for reference only



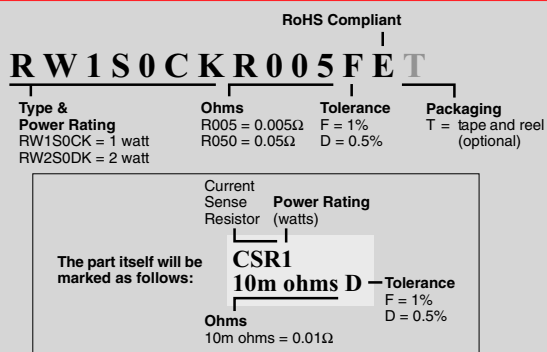
DIMENSIONS inches (mm)

	RW1S0CK	RW2S0DK
L	0.425±.02 (10.8±0.5)	0.504±.02 (12.8±0.5)
W	0.244±.012 (6.2±0.3)	0.323±.012 (8.2±0.3)
t	0.083±.008 (2.1±0.2)	0.122±.008 (3.1±0.2)
a	0.118±.012 (3.0±0.3)	0.197±.012 (5.0±0.3)
b	0.031±.008 (0.8±0.2)	0.039±.008 (1.0±0.2)
c	0.055±.02 (1.4±0.5)	0.079±.02 (2.0±0.5)
d	0.047±.02 (1.2±0.5)	0.079±.02 (2.0±0.5)
e	0.051±.012 (1.3±0.3)	0.087±.012 (2.2±0.3)
f	0.051±.012 (1.3±0.3)	0.087±.012 (2.2±0.3)
g	0.197±.004 (5.0±0.1)	0.236±.004 (6.0±0.1)
h	0.098±.004 (2.5±0.1)	0.118±.004 (3.0±0.1)
j	0.39 (10.0)	0.47 (12.0)
k	0.08 (2.0)	0.09 (2.3)
m	0.04 (1.0)	0.05 (1.15)
n	0.12 (3.0)	0.21 (5.3)
o	0.24 (6.0)	0.31 (8.0)
p	0.20 (5.0)	0.24 (6.0)
q	0.06 (1.6)	0.09 (2.2)
r	0.08 (2.0)	0.13 (3.2)
s	0.04 (1.0)	0.06 (1.6)

PERFORMANCE CHARACTERISTICS

Parameter	Requirement Limit	Typical ΔR	Test Method
Resistance	Within regulated tolerance	—	25°C
T.C.R.	Within specified T.C.R.	—	$+25^{\circ}\text{C}/-55^{\circ}\text{C}$ and $+25^{\circ}\text{C}/+125^{\circ}\text{C}$
Overload	$\pm 1.0\%$	$\pm 1.0\%$	Rated power x 5 for 5 seconds
Resistance to Solder Heat	$\pm 1.0\%$	$\pm 1.0\%$	$260^{\circ}\text{C} \pm 5^{\circ}\text{C}$, 10 seconds ± 1 second
Rapid Change of Temperature	$\pm 1.0\%$	$\pm 0.5\%$	-55°C (30 minutes), $+125^{\circ}\text{C}$ (30 minutes), 500 cycles
Moisture Resistance	$\pm 2.0\%$	$\pm 0.5\%$	$40^{\circ}\text{C} \pm 2^{\circ}\text{C}$, 90 - 95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Endurance at 70°C	$\pm 1.0\%$	$\pm 0.5\%$	$70^{\circ}\text{C} \pm 2^{\circ}\text{C}$, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Low Temperature Operation	$\pm 0.5\%$	$\pm 0.25\%$	-55°C , 1 hour
High Temperature Exposure	$\pm 0.5\%$	$\pm 0.25\%$	$+125^{\circ}\text{C}$, 100 hours

ORDERING INFORMATION



STANDARD PART NUMBERS FOR RW SERIES

Wattage:	1 watt	2 watt
Tolerance:	1%	0.5% 1%
Ohms	Series: RW1S0CK----	FET RW1S0CK----DET RW2S0DK----FET
0.00500	RW1S0CKR005FET	RW1S0CKR005DET RW2S0DKR005FET
0.01000	RW1S0CKR010FET	RW1S0CKR010DET RW2S0DKR010FET
0.02500	RW1S0CKR025FET	RW1S0CKR025DET RW2S0DKR025FET
0.05000	RW1S0CKR050FET	RW1S0CKR050DET RW2S0DKR050FET

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