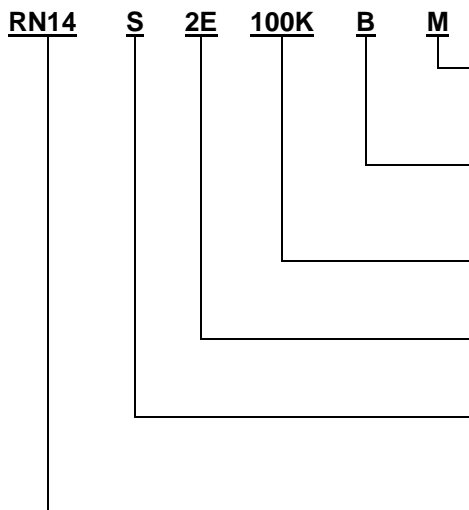


The content of this specification may change without notification 1/01/06

Custom solutions are available.

HOW TO ORDER:



Packaging

M = Tape ammo pack (1,000 pcs)
B = Bulk (100 pcs)

Resistance Tolerance

B = $\pm 0.1\%$ C = $\pm 0.25\%$
D = $\pm 0.5\%$ F = $\pm 1.0\%$

Resistance Value

e.g. 100K, 62R2, 30K1

Voltage

2B = 1/8W, 2E = 1/4W, 2H = 1/2W

Temperature Coefficient

R = ± 5 ppm E = ± 25 ppm
S = ± 10 ppm C = ± 50 ppm

Series

Precision Insulation Coated Metal Film Fixed Resistor



FEATURES

- Ultra Stability of Resistance Value
- Extremely Low temperature coefficient of resistance, ± 5 ppm
- Working Temperature of $-55^{\circ}\text{C} \sim +150^{\circ}\text{C}$
- Applicable Specifications: EIA575, JISC5202, and IEC 60068
- ISO 9002 Quality Certified

STANDARD ELECTRICAL SPECIFICATION

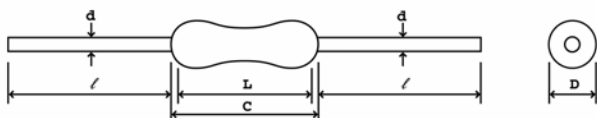
Type	Rated Watts*	Max. Working Voltage	Max. Overload Voltage	Tolerance (%)	TCR ppm/ $^{\circ}\text{C}$	Resistance Range	Operating Temp Range
RN14 2B	0.125	250	500	± 0.1 $\pm 0.25, \pm 0.5, \pm 1$	$\pm 5, \pm 10, \pm 25$ $\pm 25, \pm 50$	10 Ω – 1M Ω	- 55 $^{\circ}\text{C}$ to + 150 $^{\circ}\text{C}$
RN14 2E	0.25	350	700	± 0.1 $\pm 0.25, \pm 0.5, \pm 1$	$\pm 5, \pm 10, \pm 25$ $\pm 25, \pm 50$	10 Ω – 1M Ω	
RN14 2H	0.50	500	1000	± 0.1 $\pm 0.25, \pm 0.5, \pm 1$	$\pm 5, \pm 10, \pm 25$ $\pm 25, \pm 50$	10 Ω – 1M Ω	

* per element @ 85 $^{\circ}\text{C}$

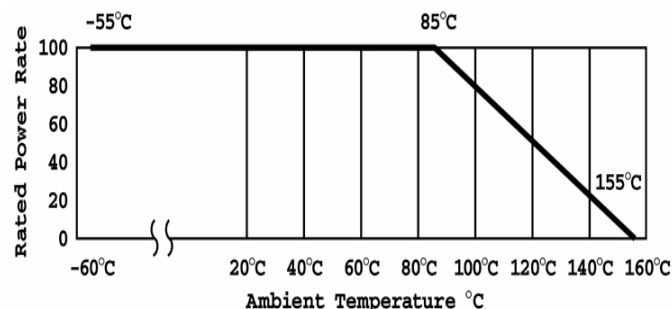
DIMENSIONS (mm)

Type	L	D	C	l	d
RN14 2B	6.3 \pm 0.5	2.3 \pm 0.2	7.5	27 \pm 2	0.6 \pm 0.05
RN14 2E	9.0 \pm 0.5	3.6 \pm 0.5	10.5	27 \pm 2	0.6 \pm 0.05
RN14 2H	14.2 \pm 0.8	4.8 \pm 0.4	16.0	27 \pm 2	1.0 \pm 0.05

RESISTOR DRAWING



DERATING CURVE



	Test Item	JISC5202	Test Result
W	Value	5.1	B ($\pm 0.1\%$)
	TRC	5.2	S (± 10 ppm/ $^{\circ}\text{C}$)
	Short Time Overload	5.5	$\pm (0.25\% + 0.05\Omega)$
	Insulation	5.6	10,000M Ω
	Voltage	5.7	$\pm (0.1\% + 0.05\Omega)$
Mechanic	Intermittent Overload	5.8	$\pm (0.5\% + 0.05\Omega)$
	Terminal Strength	6.1	$\pm (0.25\% + 0.05\Omega)$
	Vibration	6.3	$\pm (0.25\% + 0.05\Omega)$
	Solder Heat	6.4	$\pm (0.25\% + 0.05\Omega)$
	Solderability	6.5	95%
Other	Solvency	6.9	Anti-Solvent
	Temperature Cycle	7.4	$\pm (0.25\% + 0.05\Omega)$
	Low Temp Operation	7.1	$\pm (0.25\% + 0.05\Omega)$
	Humidity Overload	7.9	$\pm (0.25\% + 0.05\Omega)$
	Rated Load Test	7.10	$\pm (0.25\% + 0.05\Omega)$

MATERIAL SPECIFICATION

Element:	Precision deposited nickel chrome alloy Coated constructions
Encapsulation:	Specially formulated epoxy compounds Standard lead material is solder coated copper with controlled annealing
Core:	Fire cleaned high purity ceramic
Termination:	Solderable and weldable per MIL-STD-1276, Type C

PERFORMANCE