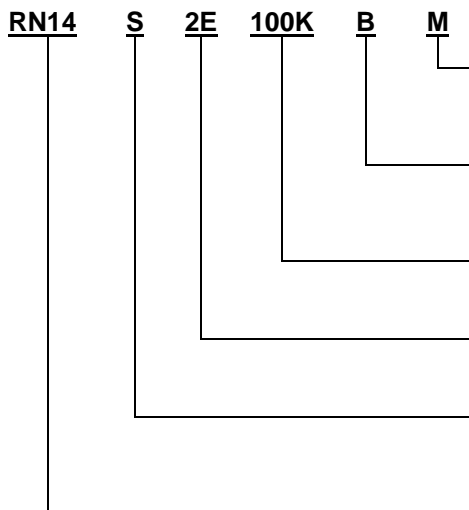


The content of this specification may change without notification 1/01/06

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 =  $\pm 5$ ppm    E =  $\pm 25$ ppm  
S =  $\pm 10$ ppm    C =  $\pm 50$ ppm

### Series

Precision Insulation Coated Metal Film Fixed Resistor



## FEATURES

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

## STANDARD ELECTRICAL SPECIFICATION

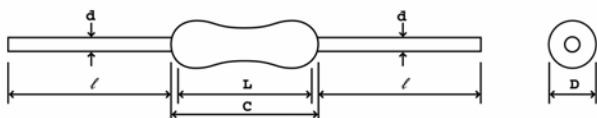
Type	Rated Watts*	Max. Working Voltage	Max. Overload Voltage	Tolerance (%)	TCR ppm/ $^{\circ}\text{C}$	Resistance Range	Operating Temp Range
RN14 2B	0.125	250	500	$\pm 0.1$ $\pm 0.25, \pm 0.5, \pm 1$	$\pm 5, \pm 10, \pm 25$ $\pm 25, \pm 50$	10 $\Omega$ – 1M $\Omega$	- 55 $^{\circ}\text{C}$ to + 150 $^{\circ}\text{C}$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

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

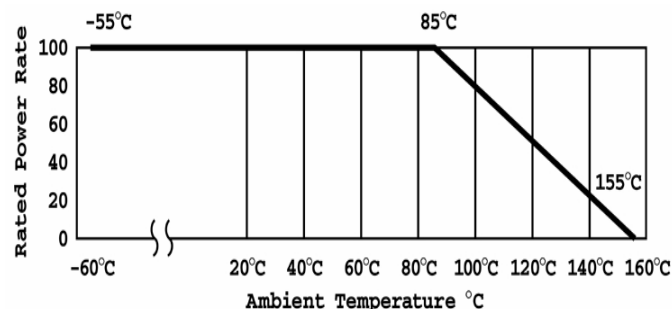
## DIMENSIONS (mm)

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 ( $\pm 10$ ppm/ $^{\circ}\text{C}$ )
	Short Time Overload	5.5	$\pm (0.25\% + 0.05\Omega)$
	Insulation	5.6	10,000M $\Omega$
	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