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Resistors And
Resistive Applications

8G16, 8G24 PRECISION WIRE WOUND RESISTORS

These are high precision wire wound resistors, providing excellent stability over temperature and time. They use balanced multiple n , low reactance windings employing an exclusive 'air cushion' technique, providing virtually stress free elements. They are ' non inductively' wound with the direction of winding reversed at the half turns point. They are suitable for most analogue precision circuits, e.g, gain setting, bridge balancing, voltage dividing, referencing.

GENERAL SPECIFICATIONS

Model	Power rating [W]	Max. Voltage [V]	Resistance Range [Ω]		Tolerance [25C]
			standard	non-standard	
8G16	0.33 (+85C) 0.25 (+110C)	Up to 250VDC Root(PR) peak	1Ω to 1MΩ	1Ω to 1.1MΩ	+-0.005% +-0.01% +-0.1%
8G24			8G16<700KΩ; 8G24>700KΩ		

CHARACTERISTICS

Values in [ ] mean change in ohmic value after test

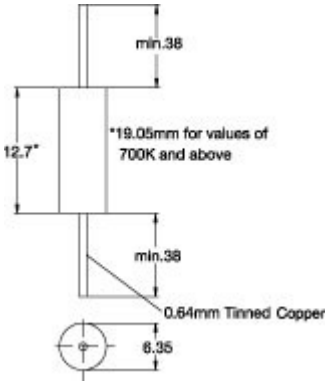
Temp. Coefficient	+-3ppm/C typical over 0C to +85C , +-5ppm/C max. over -55C to +125C
No Load Stability	+-25ppm/10,000 hrs, +-35ppm/26,000 hrs. (over full temperature range:-55C to+125C)
Full Load Stability	+-35ppm/10,000 hrs, +-50ppm/26,000 hrs.
Thermal EMF	<0.4uV/C typical.
Noise	Essentially non-measurable
Encapsulation	Molded epoxy
Leads	22 AWG tinned copper

STANDARD VALUES

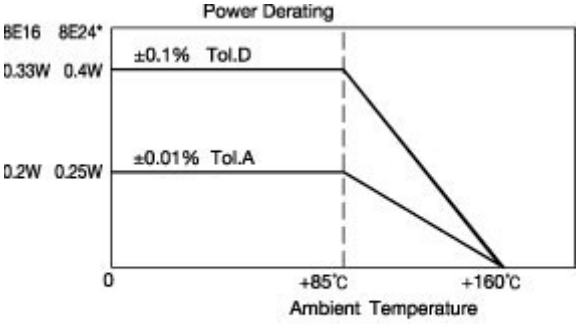
Note:
-* means 0.1% tolerance only
- means 0.01% tolerance only**
-Any non-listed value from 1Ω to 1.1MΩ available to order

1Ω,2Ω 5Ω 10Ω 20Ω 30Ω 40Ω 50Ω 60Ω 60.25Ω 62.50Ω* 70Ω80Ω 84.27Ω** 90Ω 92.16Ω** 100Ω 103.90Ω** 107.79Ω** 109.73Ω** 111.67Ω** 115.54Ω** 119.40Ω** 120.00Ω 123.24Ω** 125.00Ω** 127.07Ω** 130.89Ω** 134.70Ω** 138.50Ω 150.00Ω* 157.31 Ω** 175.84 Ω**180.00 Ω* 194.07Ω** 200.00Ω 212.02Ω** 220.00Ω* 229.67Ω** 247.04Ω** 250Ω 270Ω* 300Ω 330Ω* 350Ω 390Ω* 400Ω 470Ω* 500Ω 560Ω* 600Ω 680Ω* 700Ω 800Ω 820Ω*900Ω 1.0K 1.2K* 1.5K 1.8K* 2.0K 2.2K* 2.5K 2.7K* 3.0K 3.3K* 3.9K* 4.0K 4.7K* 5.0K 5.6K* 6.0K 6.8K 7.0K* 8.0K 8.2K* 9.0K 9.9K 10.0K 12.0K 15.0K* 18.0K* 20.0K 22.0K* 25.0K 27K* 30K 33K* 39K 40K 47K* 50K 56K* 60K 68K* 70K 80K 82K* 90K 99K 100K 160K* 180K 200K 250K 300K 320K* 400K 500K 990K 1M**

DIMENSIONS



DERATING CURVES



Note : If power ratings are exceeded, resistors may not remain within specified accuracy.

* Values above 700KΩ only

ORDERING PROCEDURE EXAMPLE

8E16	A	10K
Model #	Tolerance X=0.005% A=0.01% D=0.1%	R value in Ohms

* Matched pairs and ratio matched resistors are available against specific enquiries.

