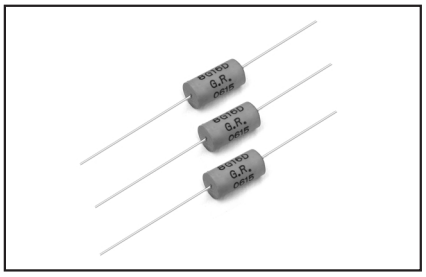
Precision Wire Wound Resistors

8G16 and 8G24 are high precision wirewound resistors, providing excellent stability over temperature and time. They use balanced multiple π, 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. Econistors are suitable for most analogue precision circuits, e.g, gain setting, bridge balancing, voltage dividing, referencing, etc.



GENERAL SPECIFICATIONS

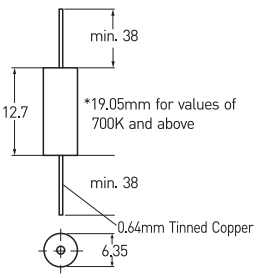
Model	Power Rating [W]	Maximum Working Voltage[V]	Resistance Range[Ω]		Tolerance at 25℃(%)
			Standard	Non-Standard	
8G16	0.33W(+85℃) 0.25W(+110℃)	Up to 250V DC or peak as determined by $\sqrt{P*R}$	1Ω to 1MΩ	1Ω to 1.1MΩ	±*0.005% ±0.01% ±0.1%
8G24			Type 8G 16 < 700kΩ Type 8G 24 > 700kΩ		

* 0.005% available on values of 100Ω and above only

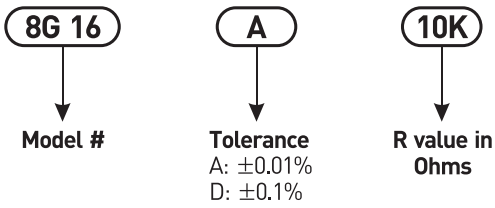
CHARACTERISTICS

Temperature Coefficient	±3ppm/℃ typical over 0℃ to +85℃, ±5ppm/℃ maximum over -55℃ to +125℃
Thermal EMF	< 0.4μ V/℃ typical, < 1.5μ V/℃ maximum
Noise	Essentially non-measurable
Encapsulation	Molded epoxy
Leads	24 AWG tinned copper
No Load Stability	±25ppm/10,000 hours , ±35ppm/26,000 hours (over full temperature range: -55℃ ~ +125℃)
Full Load Stability	±35ppm / 10,000 hours, ±50ppm / 26,000 hours

DIMENSIONS [mm]

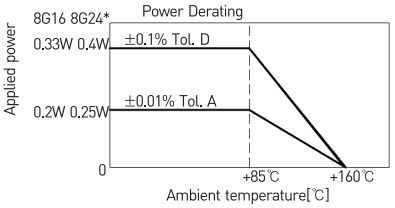


ORDERING PROCEDURE EXAMPLE



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

DERATING CURVES



Note: If power ratings are exceeded, resistors may not remain within specified accuracy.
* Values above 700K KΩ only

STANDARD RESISTANCE VALUES [Ω]

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

* Stocked in ±0.1% tolerance only. **Stocked in ±0.01% tolerance only.
* Any non-listed value from 1Ω to 1.1MΩ available to order