WX GS Wirewound Resistors



Features

Easy replacement of vitreous enamel resistors with no cost increase and no performance loss.

The whole assembly is coated with multi-layer silicone coating to give maximum wire protection form- 55° C to $+350^{\circ}$ C.

Performance improvement is obtained by close tolerance, very low temperature coefficient and excellent stability in operation under severe environmental conditions.

High level reliability due to ceramic core chemically inert and centerless ground for uniformity, selected wire element and completely welded construction terminal to terminal.

Dimensions



Туре	Rated Dimensions			
	(W)	D	L	d
GS-3	3	5.2 ± 0.5	12 ± 0.8	0.8
GS-4	4	6.0 ± 0.5	13.5 ± 0.8	0.8
GS-6	6	8.0 ± 0.5	22 ± 1.6	0.8
GS-7	7	8.0 ± 0.5	25 ± 1.6	0.8
GS-10	10	9.5 ± 0.5	35 ± 1.6	0.9
GS-13	13	9.5 ± 0.5	46 ± 1.6	0.9
GS-15	15	9.5 ± 0.5	51 ± 1.6	0.9

Reference Standards

IEC60115-1

SHENZHEN KWX ELECTRONICS CO., LTD Http://www.kwxcom.com

Ordering Information

Example:

GS (1) Series Name	10 (2) Power Rating	J (3) Resistance Tolerance	47R0 (4) Resistance	T (5) Temperature
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(1)Type: GS SERIES

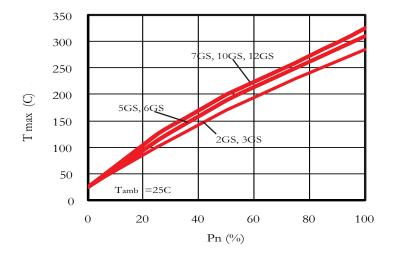
(2)Power Rating: 3=3W 4=4W 7=7W 10=10W......

(3)Tolerance: $J = \pm 5\% F = \pm 1\%$

(4)Resistance Value:47=47RO,

(5)Temperature: \pm 100 to \pm 30 ppm from R10 to Rmax

Temperature rising curve



Temperature rising curve

Туре	MIL PRF 26HType	Rated power(W)	Resistance range(Ohm)	Voltage Limit(V)	Temperature rise(°C/W)	Weight(g)
GS-3	RW69V	3	0.01- 5K6	130	91	1.2
GS-4	-	4	0.01-10K	200	74	1.8
GS-6	RW74U	6	0.01-24K	380	52	3.2
GS-7	RW67V	7	0.01-27K	435	45	3.8
GS-10	RW55V	10	0.01-47K	685	30	7.0
GS-13	RW68V	13	0.01-68K	940	24	9.0
GS-15	RW56V	15	0.01- 82K	1100	21	10.0

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Electronics Specifications

These resistors meet or exceed the requirements of MIL-PRF-26 H specifications

Ohmic values	E24 Series. For out of range or not standard ohmic values,consult KWX Technical Dept.		
Tolerance	Standard 5%. Available on request up to 1% (for values >R047).		
Temperature coefficient	Typical values: ± 100 to ± 30 ppm from R10 to Rmax Consult factory for special applications		
Dielectric strength	500 Vdc 2GS to 6GS 700 Vdc 7GS to 12GS		
Insulation resistance	1000 MOhm minimum. 100 MOhm after moisture test		
Sovraccarico	5s at 10 times rated power 5s at 5 times rated power 2GS and 3GS		
Non inductive	Models of equivalent physical and electrical specifications are also available with non inductive		
	Ayrton-Perry winding		

Mechanical Specifications

Terminal strength	10 lb. pull test.	
Solderability	Continuous, satisfactory coverage when tested in accordance to MIL-PRF-26 H.	

Materials

Core	Ceramic steatite or alumina centerless ground	
Resistive element	Copper-nickel alloy or nickel-chrome alloy with specific temperature coefficient	
End caps	Stainless steel	
Coating	Special high temperature silicone	
Standard terminals	LF tinned copper or LF tinned copperweld	
	Point of measure: L + 20mm	

Derating

These resistors can be used in a temperature range form -55° C to $+350^{\circ}$ C To use these components in applications with working temp. higher $+25^{\circ}$ C You have to make a power reduction with linear derating from nominal power to zero at 350° C