

# PRODUCT BULLETIN

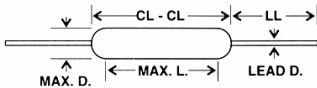


## GP 1/4-SERIES

**EXTENDED RANGE  
METAL FILM RESISTORS**

WILLOW TECHNOLOGIES LTD.  
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- High Resistance Values
- Precision Tolerances
- High Stability
- 1/4 Watt



### Dimensions Inches (mm)

Style	Max. Length	Max. Dia.	CL-CL	Lead Dia.	Lead Length
GP 1/4	.280 (7.11)	.100 (2.59)	.325 (8.26)	.025 (.635)	1.5±.125 (38.10±3.18)

### Specifications

Style	Resistance Tolerance	Resistance Tolerance	Temperature Coefficient	Wattage @70 C	Max. Voltage
GP 1/4	5%, 0.5% 2%, .25% 1%, .01%	1.01 meg ohms thru 20 meg ohms	50 thru 250 PPM/ C	1/4	300V

#### Typical Performance

Ref: EIA RS-186 (where applicable) % R	% R
1000 Hr. Load Life @300V Max..... 0.50	Insulation Resistance.....10000 M. OHM
Humidity..... 0.50	Terminal Strength..... 0.1
Thermal Shock ..... 0.10	Shock ..... 0.2
Short Time Overload..... 0.25	V ibration..... 0.2
Resist. To Soldering..... 0.10	S helf Life..... 0.2

#### Temperature Coefficients

T250=0 250 PPM/ C  
T100=0 100 PPM/ C  
TC50=0 50 PPM/ C

#### Resistance Tolerances

5%, 2%, 1%, 0.5%, .25% & 0.1%

#### Note:

The extended range GP1/4 series is designed to meet requirements where metal film performance is needed at resistance values not normally attainable with deposited ni-chrome films. Resistance values between 1.01 meg ohms and 20 meg ohms are available with temperature coefficients of 50 PPM/ C and resistance tolerances of 0.1%. Marking is either five band color code per EIA Standard RS-196A or four line alpha-numeric. Packaging is lead tape and reel or ammo-pack per EIA Standard RS-296D. Bulk packaging is also available.



DEDICATION TO EXCELLENCE

Subject to change without notice