

PRODUCT BULLETIN

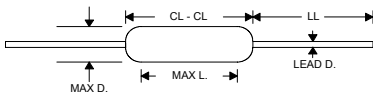


GP-SERIES

GENERAL PURPOSE PRECISION METAL FILM RESISTORS

WILLOW TECHNOLOGIES LTD.
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- Economical
- High Performance
- Very Stable
- Low Noise



Dimensional Correlation

In.	mm
.016	.406
.025	.635
.032	.813
.062	1.57
.072	1.83
.102	2.59
.125	3.18
.150	3.81
.170	4.32
.200	5.08
.280	7.11
.325	8.26
.400	10.16
.450	11.43
.600	15.24
.685	17.40
1.250	31.75
1.500	38.10



DEDICATION TO EXCELLENCE

Dimensions Inches

Style	Max. L.	Max. Dia.	CL to CL	Lead Dia.	Lead Length
GP1/8B	.170	.072	.200	.020 AWG #24	1.25±.065
GP1/4	.280	.102	.325	.025 AWG #22	1.50±.125
GP1/2	.400	.150	.450	.025 AWG #22	1.50±.125
GP3/4	.600	.200	.685	.025 AWG #22	1.50±.125
GP1	.600	.200	.685	.032 AWG #20	1.50±.125

Specifications

PRP Style	Mil. Style	Resistance Range (Ohms)	Wattage Rating		Voltage Rating
			@70 C	@125 C	
GP1/8B	RN 50	10R-500K	1/8	1/10	200V
GP1/4	RN 55	2.5R-1M	1/4	1/8	300V
GP1/2	RN 60	4.99R-1M	1/2	1/4	500V
GP3/4	RN 65	10R-1.5M	3/4	1/2	500V
GP1	RN 70	10R-1.5M	1	1/2	750V

Typical Performance (100 ohms – 250K)

Ref: EIA RS-186 (where applicable) % R	% R
Thermal Shock..... 0.05	Low Temperature Operation..... 0.03
Thermal Strength, 5 lb. Load..... 0.02	Resist. To Soldering Heat..... 0.04
Dielectric Withstanding Volt..... 0.02	Short Time Overload 0.05
Humidity..... 0.20	1000 Hr. Load Life @125 0.15

Temperature Coefficients

TC25=0 25 PPM/ C – 20 to +85 C
TC50=0 50 PPM/ C – 20 to +85 C
T100=0 100 PPM/ C – 20 to +85 C
T250=0 250 PPM/ C – 20 to +85 C

Resistance Tolerances

5.0%, 2.0%, 1.0%, 0.5%,
2.5%, 0.1%, .01%

Lead Material

The core material is O.F.H.C. and is electroplated with a coating of 60/40 tin/lead.

Note:

The GP-Series of resistors is conformally coated and fully protected against moisture by a multi-paint coat system and a hard epoxy outer coating. Marking is alpha-numeric and meets the most demanding marking requirements. Special marking is available upon request. Consult the factory concerning failsafe, flameproof, and requirements.

Subject to change without notice