

PRODUCT BULLETIN

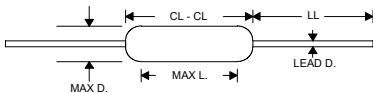


PR-SERIES

**ULTRA PRECISION
METAL FILM RESISTORS**

WILLOW TECHNOLOGIES LTD.
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- Low Temperature Coefficients
- Tight Tolerances
- High Stability
- Low Noise



Dimensions In Inches

Style	Max. L.	Max. Dia.	CL to CL	Lead Dia.	Lead Length
PR1/20B	.170	.072	.200	.020 AWG #24	1.25±.065
PR1/10	.280	.102	.300	.025 AWG #22	1.50±.125
PR1/8A	.280	.102	.300	.025 AWG #22	1.50±.125
PR1/8	.400	.150	.450	.025 AWG #22	1.50±.125
PR1/4A	.416	.161	.450	.025 AWG #22	1.50±.125
PR1/4	.600	.200	.685	.025 AWG #22	1.50±.125

Dimensional Correlation

In.	mm
.016	.406
.025	.635
.062	1.57
.072	1.83
.102	2.59
.125	3.18
.150	3.81
.161	4.04
.170	4.32
.200	5.08
.280	7.11
.300	7.62
.400	10.16
.416	10.57
.450	11.43
.600	15.24
.685	17.40
1.250	31.75
1.500	38.10

Specifications

Style	Resistance Range Ohms	Power Rating @85 C	Maximum Voltage
PR1/20B	10R-300K	1/20	200V
PR1/10	10R-500K	1/10	300V
PR1/8A	10R-500K	1/8	300V
PR1/8	10R-1M	1/8	400V
PR1/4A	10R-1M	1/4	400V
PR1/4	50R-1.5M	1/4	500V

Typical Performance (100 ohms – 100K)	% R
Ref: EIA RS-186 (where applicable) % R	Effects Of Solder.....<0.01
1000 Hr. Load Life At 85 C..... 0.02	Dielectric Withstanding.....<0.01
Humidity..... 0.04	Noise.....<-30dB
Thermal Shock.....<0.01	Insulation Resistance.....<10000 M. OHM
Short Time Overload.....<0.01	Shelf Life.....<50 PPM/YR.

Temperature Coefficients

TC25=0 25 PPM/ C – 20 to +85 C
 TC20=0 20 PPM/ C – 20 to +85 C
 TC15=0 15 PPM/ C – 20 to +85 C
 TC10=0 10 PPM/ C – 20 to +85 C
 TC5 =0 5 PPM/ C – 20 to +85 C

Resistance Tolerances

1.0%, 0.5%, .25%, 0.1%,
.05%, .02%, .01%

Lead Material

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

Matched Sets and Networks

Customized resistance and temperature coefficient matching are available. Resistance matching to .01% and T.C. tracking of 1 PPM/ C are standard. Please consult the factory for details on your requirements.

