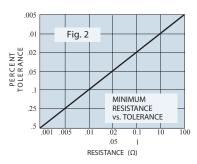
PLV SHUNTS



How You Can Profit From P	LV Shunts:
Variable lead sizes for current-s	ensing to 45 Amps
Resistance values	to 0.001Ω
Voltage drop or ohmic tolerances	
TCR characteristics15ppm/°C	
Temperature Span65 to +275	
For closer tolerance see Derating	Curve Fig. 3

ELECTRICAL & PHYSICAL SPECIFICATIONS

ELECTRICAL & PHYSICAL SPECIFICATIONS									
PRC Type	Max. Rating Watts Amps		y Dimens 37mm (.03 (L) mm ins.		1" L * Lead Diam. Tinned Copper	Std. Min. Res @ Max. Watts Special Min. Res @ Derated Power	W L W L W L W L W L W L W L W L W L W L		
PLV ½	0.5W 3A	4.95 .195"	8.64 .340"	3.18 .125"	.028" #21 AWG	.055Ω@0.5W .001Ω@0.009W	PRC PLV1/2		
PLV 1	<u>1W</u> 5A	<u>5.97</u> .235"	<u>9.53</u> .375"	4.32 .170"	.028" #21 AWG	.04Ω@1W .001Ω@0.025W	PRC PLVI		
PLV 2	2W 8A	6.35 .250"	9.78 .385"	<u>5.72</u> .225"	.028" #21 AWG	.03Ω @ 2W .001Ω @ 0.64W	PRC PLV2		
PLV 3	3W 15A	6.35 .250"	<u>12.7</u> .500"	6.35 .250"	.032" #20 AWG	.013 Ω @ 3W .001Ω @ .225W	PRC PLV3		
PLV 5	<u>5W</u> 15A	7.87 .310"	15.88 .625"	7.87 .310"	.032" #20 AWG	.022Ω@5W .001Ω@.225W	PRC PLV5		
PLV 7	<u>7W</u> 18A	12.7 .500"	38.1 1.500"	12.7 .500"	.036" #19 AWG	.022Ω@7W .001Ω@.324W	PRC PLV7		
PLV7AL	7 <u>W</u> 38A	12.7 .500"	38.1 1.500"	12.7 .500"	To # 10 AWG	.001Ω @ 1.444W			
PLV10	10W 20A	25.4 1.000"	38.1 1.500"	25.4 1.000"	.040" #18 AWG	.025Ω @ 10W .001Ω@ 0.4W	PRC		
PLV10AL	10W 45A	25.4 1.000"	38.1 1.500"	25.4 1.000"	To # 8 AWG	.001Ω @ 2W	PLV10		
*Precision 4-Lead design eliminates contact and lead-out resistance. 2 concentrically located current leads and 2 offset potential leads. Suffix letters "AL" = Aluminum Case									

ENGINEERING DATA:

- 1. RESISTANCE VS. TOLERANCE You can select any value from 1 milliohms to 100Ω . Please refer to Fig. #2 for Resistance vs. Tolerance ratios.
- 2. TCR: 0 ± 15 ppm/ °C (Std.) Specify - LTC for 0 ± 10 ppm to +150°C
- 3. POWER & CURRENT RATINGS
 Full power ratings are based upon ±1%
 res. tols. at 25°C. Derating is required for
 closer tolerances, higher temperatures
 (Fig. #3) and lower values. Refer to Std.
 Min. Res. @ Max. watts in above column
- 4. $\frac{\text{STABILITY}}{\text{To }\pm 0.001}$ %/yr. at 25°C (no load).

5. TERMINALS

All PLVs have solderable "hot-tinned" pure copper wire leads. Higher current-carrying capacity leads to #8 AWG are available for full power ratings on values below the Std. Min. Res. listed. PRC's unique "single-joint" design on the four (4) terminal parts makes tab identification academic.

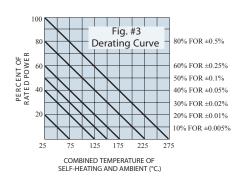
6. PROTECTIVE ENCAPSULATION PLVs are sealed in high temp/solvent

 PLVs are sealed in high temp/solvent resistant epoxy. Epoxy/aluminum cases are available on 7 watt & 10 watt sizes.

7. MARKING

• PRC symbol, type ohmic value and tolerance. Custom marking is available.

FULL RATED POWER & CURRENT FOR ± 1% RES. TOL.
BOTH MAX POWER & MAX CURRENT PUBLISHED MUST
BE DE-RATED FOR TOLERANCES CLOSER THAN ± 1%





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