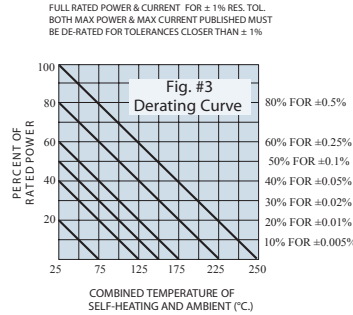


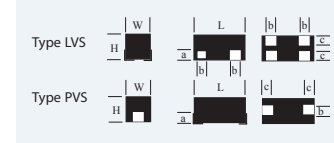
# LVS/PVS - CURRENT SENSING

**How LVS/PVS Shunts Will Benefit You:**  
 SMD current-sensing ..... to 15 amperes  
 Ohmic/voltage drop tolerances ..... to  $\pm 0.005\%$   
 Values ..... from 1 milliohm to 100K $\Omega$   
 TCR Char. .... 15ppm (Std.) to  $0 \pm 10$ ppm/ $^{\circ}\text{C}$   
 Temperature Span .....  $-65$  to  $+250^{\circ}\text{C}$  (@ 1%)  
 For closer tolerances, see Fig. # 3 De-rating Curve



**Precautionary Statement applies to all SMDs/SMTs**

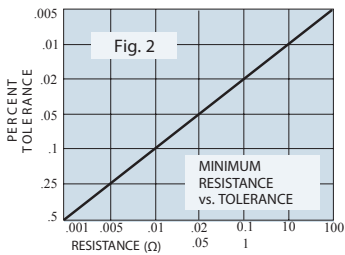
\*Not to be exposed to temps above  $150^{\circ}\text{C}$  for  $\pm 0.1\%$  Tol.  
 And  $125^{\circ}\text{C}$  for tolerances closer than  $\pm 0.1\%$  without  
 prior heat testing qualification approval procedures.  
 Re-flow solder methods not recommended closer than  $\pm 0.25\%$



PRC's unique "single joint" design on the 4-tab LVS Series makes tab I.D. academic so you may select the pair closest to the top as your sense leads & the bottom pair for the current leads or vice versa

**ELECTRICAL & PHYSICAL SPECIFICATIONS**

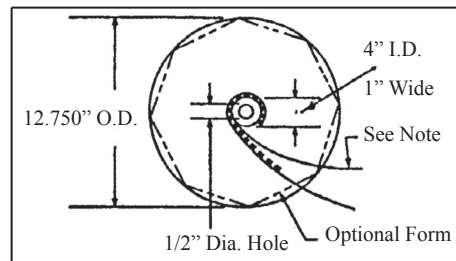
PRC TYPE	Max. Watt Amp	PAD LAYOUT	DIMENSIONS $\pm .787 \text{ MM } (.031")$							Max. Res. ( $\Omega$ )	Std. Min. Res. @ Max. Watts	
			H mm ins.	L mm ins.	W mm ins.	a mm ins.	b mm ins.	c mm ins.	d mm ins.			e mm ins.
PVS1	1W 3A		3.30 .130"	9.14 .360"	3.18 .125"	1.91 .075"	1.91 .075"	2.54 .100"	6.60 .260"		5K	.111 $\Omega$ @ 1W .001 $\Omega$ @ .009 W
LVS2	2W 8A		6.35 .250"	9.78 .385"	5.72 .225"	3.18 .125"	2.84 .112"	2.54 .100"	4.90 .193"	3.81 .150"	100	.03 $\Omega$ @ 2W
PVS2									7.87 .310"		15K	.001 $\Omega$ @ 0.064W
LVS3	3W 15A		6.35 .250"	12.7 .500"	6.35 .250"	2.54 .100"	2.84 .112"	2.54 .100"	6.99 .275"	4.70 .185"	100	.013 $\Omega$ @ 3W
PVS3									10.8 .425"		50K	.001 $\Omega$ @ 0.225W
LVS5	5W 15A		7.87 .310"	15.88 .625"	7.87 .310"	1.91 .075"	2.84 .112"	2.54 .100"	8.08 .318"	6.10 .240"	100	.022 $\Omega$ @ 5W
PVS5									14.0 .551"		100K	.001 $\Omega$ @ 0.22W



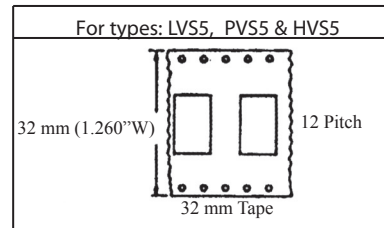
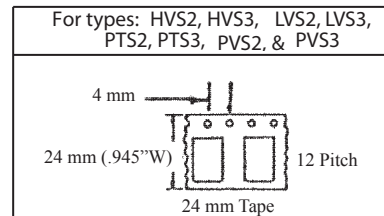
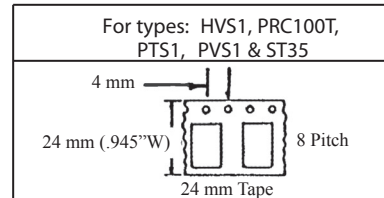
- RESISTANCE AND TOLERANCES**  
 You can select any ohmic value or decimal part of an ohm from 0.001 $\Omega$  to 100K $\Omega$  with microhm/microvolt accuracies to  $\pm 0.005\%$  see Fig. 2 above.
- TCR CHARACTERISTICS**  
 $0 \pm 15$  ppm/ $^{\circ}\text{C}$ . (std.) Please specify temperature span of operation.  
 Add LTC in the part # for TCR  $0 \pm 10$ ppm/ $^{\circ}\text{C}$ . to  $+150^{\circ}\text{C}$ .
- STABILITY VS. TIME**  
 to  $\pm 0.001\%$ /yr. at  $25^{\circ}\text{C}$ . (no load)
- PRECISION POWER**  
 Standard Min. Res. @ Max. Watts based upon  $\pm 1\%$  resistance tolerances at  $25^{\circ}\text{C}$ . (please see end column above).  
 Derating is required for higher temperatures, closer tolerances and lower resistance values please see Fig. # 3 at top of page.

**ENGINEERING DATA:**

- PROTECTIVE SEAL**  
 Rectangular solvent-resistant epoxy case offers excellent thermal transfer to base.
- TERMINALS**  
 Solderable "hot-tinned" pure copper (ETP/OFHC) tab terminals and low EMF construction reduces thermal effects usually associated with low value resistors.
- SMT "Carrier Tape" PACKAGING**  
 per IEC 286-3 (EIA 481):  
 Please see Purchasing Information on pg 3.



Note: Skin packed to tape with polyfilm



**PRECISION RESISTOR CO., INC.**

10601 75TH Street North, Largo, Florida 33777-1421 U.S.A.  
 Tel: 727-541-5771 Fax: 727-546-9515  
 Email: sales@precisionresistor.com  
 Web Site: http://www.precisionresistor.com