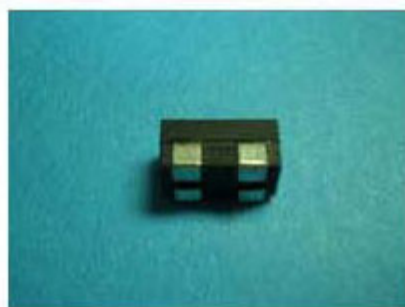
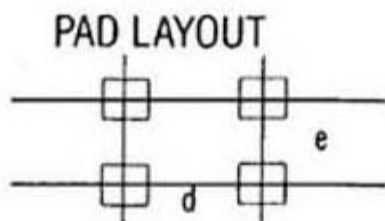
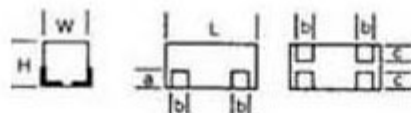


## LVS3 3W @ 25°C. Wire Wound Current Sensing SMD Shunt 4-ta



### Electrical & Physical Specifications:

<b>H-Height</b>	6.35mm (.250")
<b>L-Length</b>	12.7mm (.500")
<b>W-Width</b>	6.35mm (.250")
<b>Tab Dimensions:</b>	a=.100"; b=.112"; c=.100"; d=.275"; e=.185"
<b>Minimum Resistance @ Max Power:</b>	.013Ω @ 3W
<b>Minimum Resistance @ Derated Power:</b>	.001Ω @ .225W

### LVS Series Engineering Attributes:

#### RESISTANCE & TOLERANCES

Select any Ohmic value ( $\Omega$ ) or decimal part of an Ohm from .001 $\Omega$  to 100K $\Omega$  with micro-ohm/micro-volt accuracies to  $\pm 0.05\%$ . See Figure #2 shown below for the minimum resistance vs. tolerance requirements. PRC's unique single-joint design on the four (4) terminal parts make tab identification academic.

#### TCR CHARACTERISTICS

0 $\pm 15$  PPM/ $^{\circ}$ C is the standard for this part type. Add LTC in the part name for a lower TCR of 0 $\pm 10$  PPM/ $^{\circ}$ C. This Low Temperature Coefficient (LTC) is only sustainable if the combined temperature of self-heating and ambient (surrounding environment) operating temperature does not exceed +150 $^{\circ}$ C. Please specify temp. span of operation.

#### STABILITY VS. TIME

To  $\pm 0.001\%/yr.$  @ 25 $^{\circ}$ C. with no load.

#### PRECISION POWER

Min. Res. @ Max Watts is based upon  $\pm 1\%$  resistance tolerances @ +25 $^{\circ}$ C. Derating is required for higher temperatures, closer tolerances & lower resistance values. See Figure #3 shown below for derating requirements.

#### PROTECTIVE SEAL

Rectangular solvent-resistant epoxy case is solder heat resistant & offers excellent thermal transfer to base.

#### TERMINALS

Solderable hot-tinned pure copper (ETP/OFHC) tab terminals & low EMF construction reduces thermal effects usually associated with low value resistors.

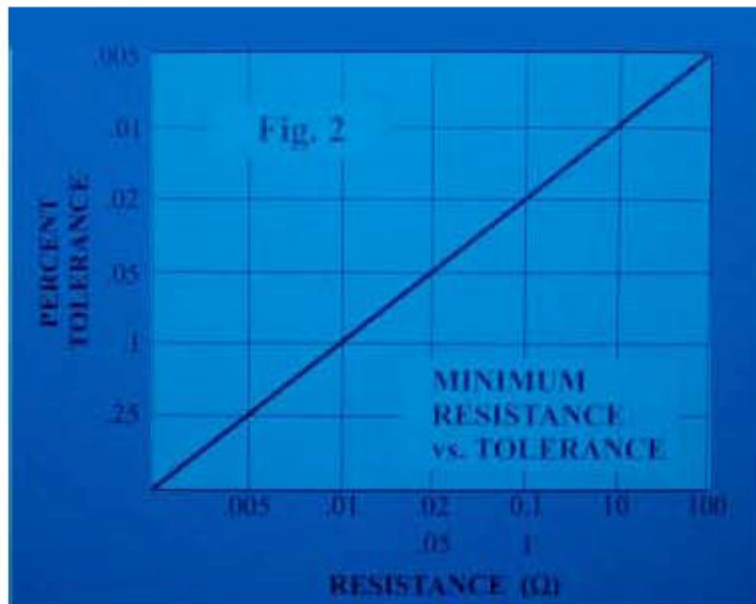
#### MARKING (Identification)

PRC stamp, part type & name,  $\Omega$  value & tolerance, physical size permitting.

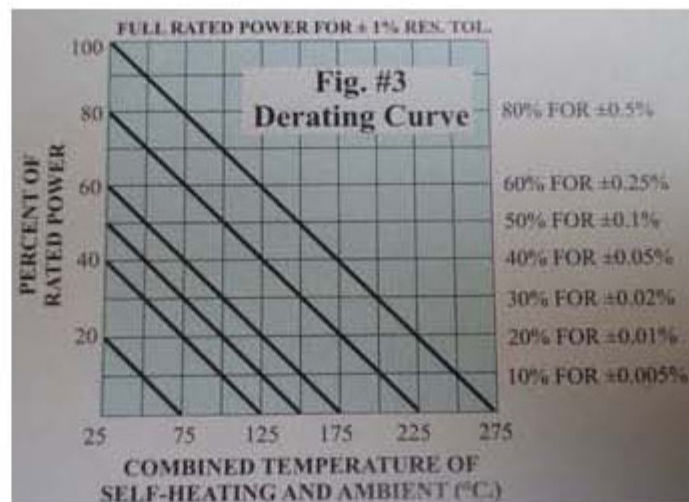
#### TAPE & REEL

Have your parts delivered to you in tape & reel form by simply specifying Tape & Reel instead of bulk when placing your order. For detailed information on all the individual specifications for the tape & reel delivery option, click the [Tape & Reel Chart](#)

## Detailed Images



Minimum Resistance vs. Tolerance



Derating Chart

### Details

SKU	LVS3
Type	SMD 4-tab
Length	12.7mm (.500")
Width	6.35mm (.250")
Tab Dimensions	a=.100"; b=.112"; c=.100"; d=.275"; e=.185"
Height	6.35mm (.250")
TCR Char.	0±15ppm/°C.(std.)...to 0±10ppm/°C.
Temperature	-65°C to +275°C (@ 1%).
Resistance	.001Ω - 100Ω
Tolerance	to ±.005%
Max Amps	15
Stability	to ±.005% per year @ +25°C
Max Watts	3