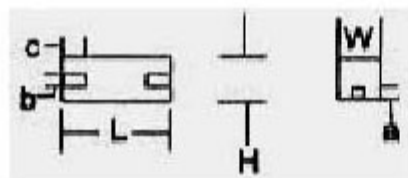
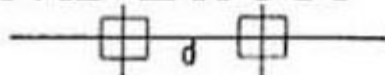


## PVS1 1W Wire Wound Current Sensing Shunts 2-Tab Surface Mounted Design (SMD)



### PAD LAYOUT



#### Electrical & Physical Specifications:

<b>H-Height</b>	3.30mm (.130")
<b>L-Length</b>	9.14mm (.360")
<b>W-Width</b>	3.18mm (.125")
<b>Tab Dimensions:</b>	a=.075"; b=.075"; c=.100"; d=.260"

**Minimum Resistance @ Maximum Wattage:** .111Ω min. @ 1W

**Minimum Resistance @ the Derated Wattage:** .001Ω @ .009W

#### PVS 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  $\pm 0.005\%$ . 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)

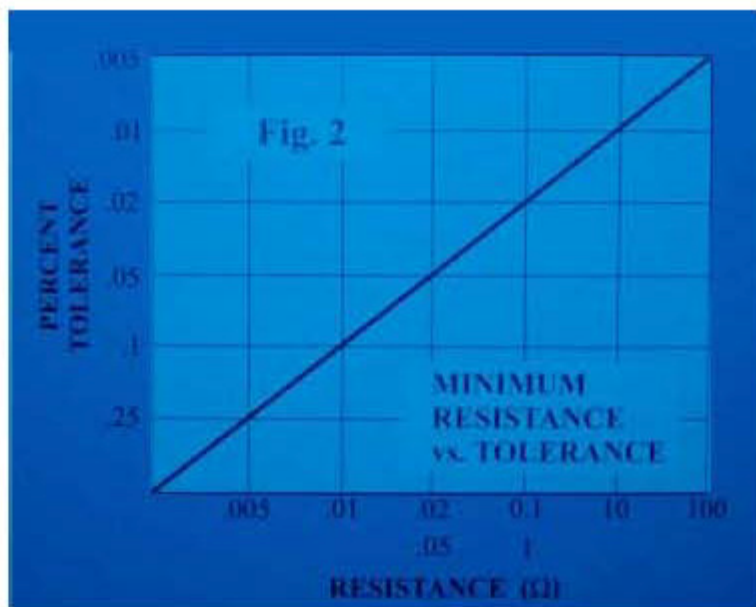
PRC stamp, part type & name,  $\Omega$  value & tolerance, physical size permitting.

##### TAPE & REEL

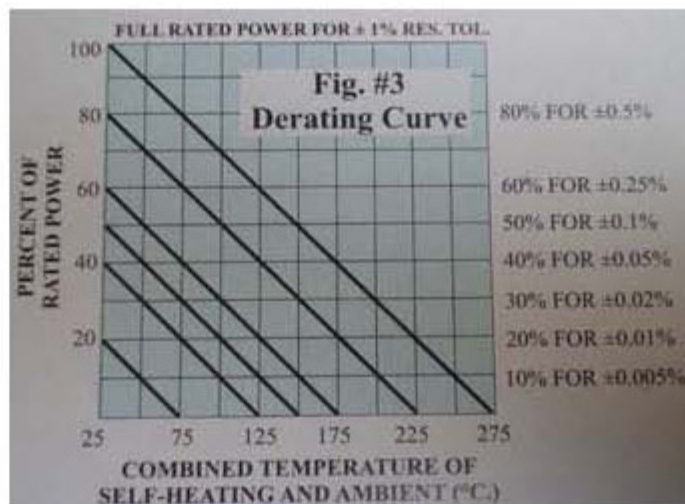
Have your parts delivered to you in tape & reel form by simply specifying Tape & Reel instead of bulk when placing your order. For detailed information on all the individual specifications for the tape & reel delivery option, click the [Tape & Reel Chart](#)



## Detailed Images



Minimum Resistance vs. Tolerance Chart



Derating Chart

## Details

SKU	PVS1
Type	SMD 2-tab
Length	9.14mm (.360")
Width	3.18mm (.125")
Tab Dimensions	a=.075"; b=.075"; c=.100"; d=.260"
Height	3.30mm (.130")
TCR Char.	0 $\pm$ 15ppm/ $^{\circ}\text{C}$ .(std.)...to 0 $\pm$ 10ppm/ $^{\circ}\text{C}$ .
Temperature	-65 $^{\circ}\text{C}$ to +275 $^{\circ}\text{C}$ (@ 1%).
Resistance	.001 $\Omega$ - 5k $\Omega$
Tolerance	to $\pm 0.005\%$
Max Amps	3
Max Watts	1
Max Volts	-
Lead Free	Yes