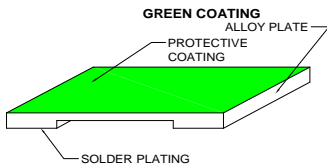


## ULTRA LOW RESISTANCE, METAL STRIP SURFACE MOUNT, CURRENT SENSE RESISTORS

### FEATURES:

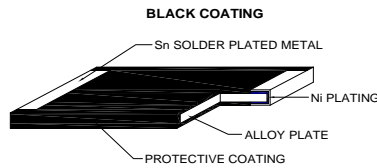
- Standard tolerances to  $\pm 1.0\%$
- Wide range of packages sizes 1206/2010/2512
- Highly reliable multilayer electrode construction
- Compatible with both flow soldering and reflow soldering
- Highly stable in auto-placement surface mounting applications
- TC's to  $\pm 50\text{ppm}$
- Very low inductance

### CONSTRUCTION:



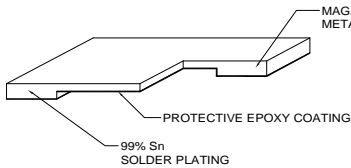
**FIGURE 1**

Green - IR reflow soldering only



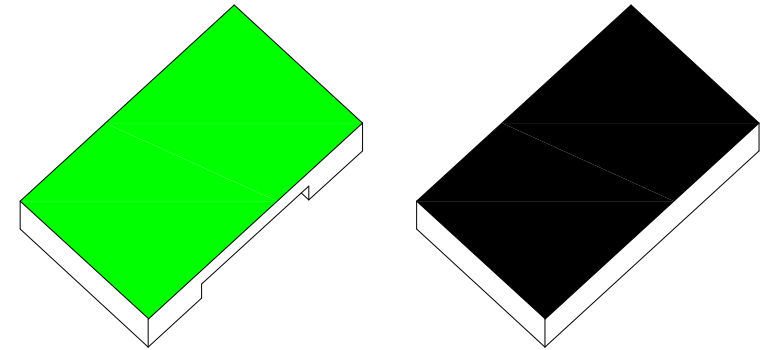
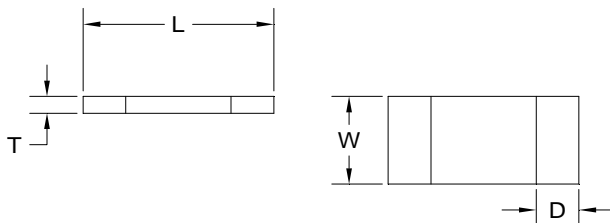
**FIGURE 2**

Black - Wave or IR reflow soldering only



**FIGURE 3**

### DIMENSIONAL AND TERMINAL CONFIGURATIONS:



### GENERAL SPECIFICATIONS:

Standard resistance range:

0.0005 $\Omega$  to 0.02 $\Omega$ , Other values available.

Tolerance:  $\pm 1\%$  to 5%

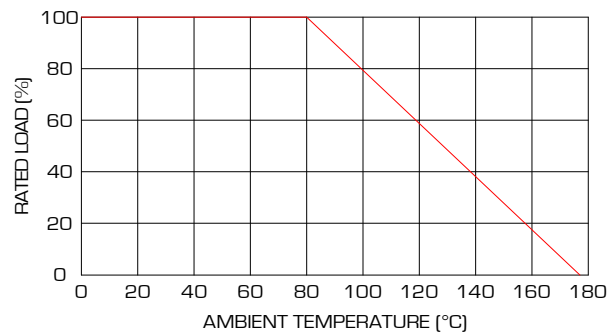
Temperature coefficient:

50ppm/ $^{\circ}\text{C}$  / 100ppm/ $^{\circ}\text{C}$ . (-55 $^{\circ}\text{C}$  to +170 $^{\circ}\text{C}$  with 25 $^{\circ}\text{C}$  as reference).

Power rating: The power rating is from 25 $^{\circ}\text{C}$ . The chip can be used at higher power level with adequate heat sinking.

Resistive elements: Metal strip

### DERATING CURVE:



TEPRO TYPE	SIZE	DIMENSIONS (Inches)				MAXIMUM WORKING (Volts)	MAXIMUM OVERLOAD (Volts)	TCR (ppm/ $^{\circ}\text{C}$ )	RATED POWER (Watts)	RESISTANCE RANGE ( $\Omega$ )
		L	W	T	D					
TMF12	2512	0.250 $\pm$ 0.010	0.125 $\pm$ 0.014	0.024 $\pm$ 0.008	0.056 $\pm$ 0.010	$\sqrt{\text{PR}}$	2.5 $\sqrt{\text{PR}}$	100	1.0	0.0005-0.02
TMF10	2010	0.200 $\pm$ 0.010	0.100 $\pm$ 0.006	0.024 $\pm$ 0.008	0.066 $\pm$ 0.025	$\sqrt{\text{PR}}$	2.5 $\sqrt{\text{PR}}$	50	1.5	0.0005-0.02
TMF6	1206	0.125 $\pm$ 0.010	0.063 $\pm$ 0.004	0.025 $\pm$ 0.008	0.039 $\pm$ 0.015	$\sqrt{\text{PR}}$	2.5 $\sqrt{\text{PR}}$	50	1.0	0.0005-0.02