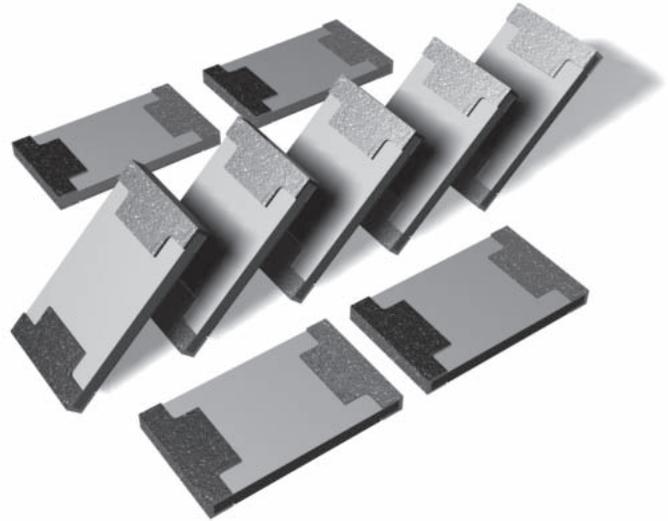


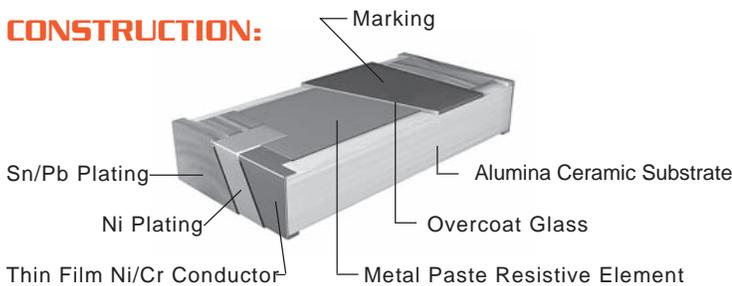
## ULTRA LOW RESISTANCE, THICK FILM SURFACE MOUNT, CURRENT SENSE RESISTORS

### FEATURES:

- Standard tolerances to  $\pm 0.5\%$
- International standard size
- Highly reliable multilayer electrode construction
- Compatible with both flow soldering and reflow soldering
- Highly stable in auto-placement surface mounting applications
- TC's to  $\pm 100\text{ppm}$
- Matching available to 0.1%



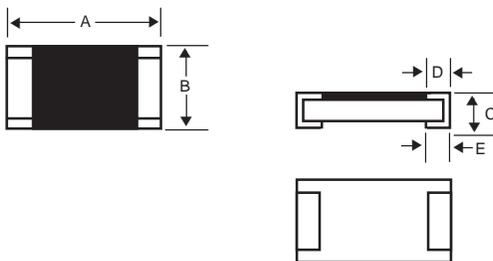
### CONSTRUCTION:



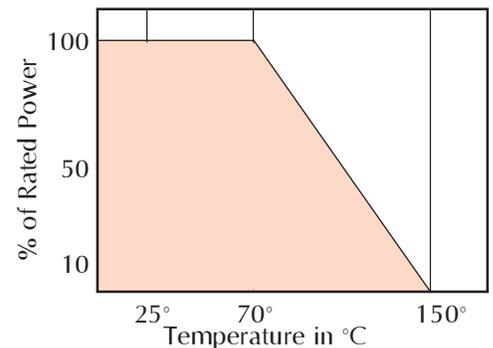
### GENERAL SPECIFICATIONS:

- Standard resistance range:  
0.001 $\Omega$  to 0.01 $\Omega$ , Other values available.
- Tolerance:  $\pm 0.5\%$  to 5%
- Temperature coefficient:  
100ppm/ $^{\circ}\text{C}$ . (- 55ppm/ $^{\circ}\text{C}$  to +125 $^{\circ}\text{C}$  with 25 $^{\circ}\text{C}$  as reference). Other temperature coefficients available.
- Power rating: The power rating is from 25 $^{\circ}\text{C}$  to 150 $^{\circ}\text{C}$  derated linearly to zero at 150 $^{\circ}\text{C}$ . The chip can be used at higher power level with adequate heat sinking.
- Resistive elements: Thick film
- Substrate: Alumina

### DIMENSIONAL AND TERMINAL CONFIGURATIONS:



### DERATING CURVE:



### ELECTRICAL SPECIFICATIONS AND DIMENSIONS - TEPRO TYPE "TU":

TEPRO TYPE	SIZE	DIMENSIONS (Inches)					MAXIMUM WORKING (volts)	MAXIMUM OVERLOAD (volts)	TCR (ppm/ $^{\circ}\text{C}$ )	RATED POWER (milliwatts)	RESISTANCE RANGE (ohms)
		A	B	C	D	E					
TU12	2512	$\pm 0.007$	$\pm 0.005$	$\pm 0.005$	$\pm 0.005$	$\pm 0.005$	200	400	100	1000	0.001 to 0.01