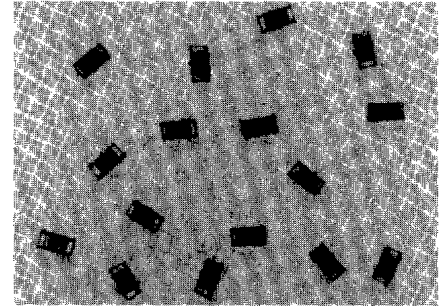


## THICK FILM CHIP RESISTORS

### FEATURES

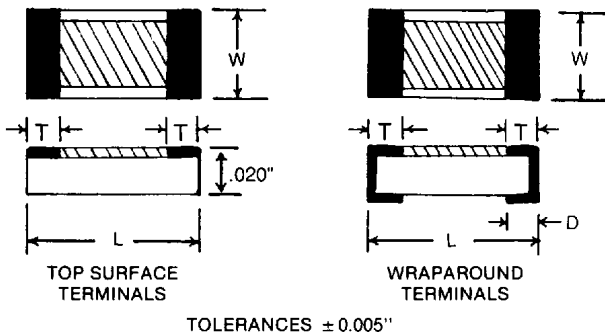
- International standard size
- Highly reliable multilayer electrode construction
- Compatible with both flow soldering and reflow soldering
- Highly stable in auto-placement surface mounting applications
- One sided and wraparound terminals
- Reliability programs designed to customer requirements
- Custom sizes can be designed for special applications
- Zero ohm jumper (0.05 ohm max., 5 amps) available



### STANDARD CONFIGURATIONS AND ELECTRICAL SPECIFICATIONS

TYPE TRTC	SIZE				MAX. POWER WATTS	VOLTAGE MAX.	RESISTANCE RANGE
	W	L	T	D			
0505	.050	.050	.010	.020	.05	50	10 - 1M
0805	.050	.080	.015	.020	.10	50	10 - 1M
1005	.050	.100	.015	.020	.15	100	10 - 1M
1206	.062	.125	.020	.020	.20	200	10 - 1M
1210	.100	.125	.020	.020	.25	200	10 - 2M

### DIMENSIONAL AND TERMINAL CONFIGURATIONS



### PERFORMANCE SPECIFICATIONS

(Test methods per MIL-R-55342)

TEST	REQUIREMENT
Thermal Shock	$\pm (.25\% + 0.05 \text{ ohm})$
Low Temperature Operation	$\pm (.25\% + 0.05 \text{ ohm})$
Short Time Overload	$\pm (.1\% + 0.005 \text{ ohm})$
High Temperature Exposure	$\pm (.5\% + 0.005 \text{ ohm})$
Resistance to Bonding Exposure	$\pm (.20\% + 0.05 \text{ ohm})$
Moisture Resistance	$\pm (.5\% + 0.05 \text{ ohm})$
Life	$\pm (1\% + 0.05 \text{ ohm})$
Solderability	95% min. coverage
Termination Adhesion	15 grams min.

### GENERAL SPECIFICATIONS

STANDARD RESISTANCE RANGE: 10 ohms to 2M ohms. Other values available.

TOLERANCE:  $\pm 1\%$ ,  $\pm 2\%$ ,  $\pm 5\%$  and  $\pm 10\%$ .

TEMPERATURE COEFFICIENT: 100 PPM/ $^{\circ}\text{C}$ . ( $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  with  $25^{\circ}\text{C}$  as reference). Other temperature coefficients available.

POWER RATING: The power rating is from 25 to  $125^{\circ}\text{C}$  derated linearly to zero at  $175^{\circ}\text{C}$ . The chip can be used at higher power level with adequate heat sinking.

RESISTIVE ELEMENTS: Thick film.

TERMINAL STYLE:

F - Top surface only, Platinum Silver.

W - Wraparound, Electroplated tin over nickel.

SUBSTRATE: 96% alumina.

### HOW TO ORDER BY PART NUMBER

The part number is a combination of type, size, terminal style, resistance value and tolerance.

