High Power Thin Film Chip Resistors

Performance Specification

Short Time Overload

±0.5% Max

Insulation Resistance

Min. 1,000 Mega Ohm

Humidity (Steady State)

±0.3% Max

Load Life

 $\pm 0.2\%$; >7K $\Omega \pm 0.5\%$ Max

Terminal Bending

±0.2% Max

Solderability

Min. 95% coverage

C

Resistance to Soldering Heat

±0.2% Max

Ordering Procedure: Ex.: TP06, 1/4W, 25PPM, +/-0.25%, 10Ω T/R-5000

> Tolerance: $B = \pm 0.10\%$ $C = \pm 0.25\%$ $D = \pm 0.5\%$ $F = \pm 1\%$

Resistance value:

0

1

- E-24 series: 1st digit is "0" 2nd & 3rd digits are significant
- figures of the resistance

 4th indicates the number of zeros

0

J

T

5

E

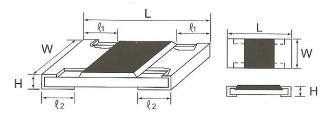
- E-96 series:
- 1st to 3rd digits are significant figures of the resistance 4th digit indicates the number of zeros
- "J" ~ 0.1, "K" ~ 0.01, "L" ~ 0.001 **Ex.** 012J ~ 1Ω 2, 226K ~ 2Ω 26

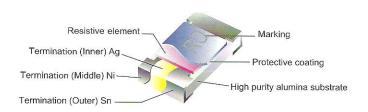
Packing Type: T = Paper Tape/Reel E = Plastic Tape/Reel

Packing Qty: 4 = 4,000 pcs 5 = 5,000 pcs. C = 10,000 pcs.

> Special Feature: E = Lead (Pb) Free Plating Type/ RoHS compliant

Dimension





Time	Dimension (mm)						
Туре	L.	W	Н	£1	l2		
TP03 (0603)	1.60±0.15	0.80±0.15	0.45±0.10	0.30±0.20	0.30±0.20		
TP05 (0805)	2.00±0.15	1.25±0.15	0.55±0.10	0.35±0.25	0.40±0.25		
TP06 (1206)	3.10±0.20	1.55±0.15	0.55±0.10	0.45±0.25	0.45±0.25		
TP07 (1210)	3.10±0.15	2.50±0.25	0.55±0.10	0.50±0.30	0.55±0.25		

Note:

- 1.) Standard Operating Temp (°C): -55 -+155
- 2.) Standard : All Tolerance use E-96 Series Only 2% & 5% use E-24 Series





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Features

- Thin Film NiCr resistance element
- Precision tolerance from ±0.10%, ±0.25%, ±0.50%, ±1%
- Extremely low TCR from ±25 PPM/°C, ±50 PPM/°C
- Special packaging 1,000 pcs. / 2,000 pcs. per reel available



Application

- Medical equipment
- Testing / Measuring equipment
- Communication device, cellphone. GPS, PDA
- · Automatic equipment controller
- Printer equipment
- Converters

Standard

Туре	Power Rating at 70°C	Max Working Voltage	Max Overload Voltage	T.C.R. PPM/°C	Tolerance %	Resistance Range
TP03 (0603)	1/6W-S 1/10W	75V	150V	±25 ±50	±0.10% ±0.25% ±0.50% ±1.00%	10Ω ~ 1ΜΩ
TP05 (0805)	1/4W-S 1/8W	150V	300V	±25 ±50	±0.10% ±0.25% ±0.50% ±1.00%	4.7Ω ~ 1MΩ
TP06 (1206)	1/3W-S 1/4W	200V	400V	±25 ±50	±0.10% ±0.25% ±0.50% ±1.00%	4.7Ω ~ 1MΩ
TP07 (1210)	1/3W	200V	400V	±25 ±50	±0.10% ±0.25% ±0.50% ±1.00%	4.7Ω ~ 10MΩ

