

Thin Film Chip Resistors

- Exhibits excellent performance in resistance tolerance, temperature coefficient of resistance, current noise, linearity and suitability to high frequency circuit application.
- · Precise dimensions minimizes errors during mounting.
- Thin film mass production line achieves high volume, high quality, low price and reliable supply.

Туре	TFR10	TFR16	TFR21	TFR32
Physical Dimensions	0.20-as 0.25-ass	0.3-0.2 0.4-0.1	2.0±02 0,4±01	3.20-02
(Inch Type)	(0402)	(0603)	(0805)	1206)

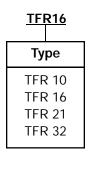
Туре		TFR10			TFR16		TFR21			TFR32				
Power Rating	1/16W			1/16W		1/10W			1/8W					
Resistance Tolerance	±0.5% (D)		±0.1% (B)	±0.25% (C) ±0.5% (D)		±0.1% (B)	±0.25% (C) ±0.5% (D)		±0.1% (B)	±0.25% (C) ±0.5% (D)				
Resistance Range	10 ~91	100 ~10K	11K ~100K	10 ~ 330K	10 ~ 330K	10 ~ 330K	10 ~330K	10 ~1M	10 ~1M	10 ~1M	10 ~1M	10 ~1M	10 ~1M	10 ~1M
Temperature Coefficient of Resistance	±100ppm/°C (A)	±25ppm/°C (E)	±100ppm/°C (A)	±25ppm/°C (E)	±50ppm/°C (C)	±25ppm/°C (E)	±100ppm/C° (A)	±25ppm/°C (E)	±50ppm/°C (C)	±25ppm/°C (E)	±100ppm/C° (A)	±25ppm/°C (E)	±50ppm/°C (C)	±25ppm/°C (E)
Resistance Value		E-24 E-24, E-96			E-24, E-96			E-24, E-96						
Maximum Operating Voltage	25V		75V		100V			150V						

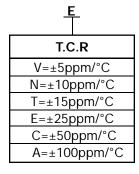
- * For marking specifications please see Thick Film Chip Resistor specifications.
- * Thick Film Chip Resistors 0402, 0603, 0805, 1206, available in 1%, 50ppm.

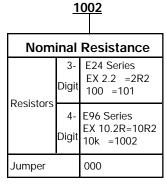
• Standard package:

- 1) 10,000 pcs per reel for TFR10
- 2) 5,000 pcs per reel for TFR 16,21,32
- Tolerance:
- 1) .05% and .01% available upon request
- Temperature Coefficient/ppm°C:
- 1) 5ppm/10ppm and 15ppm available upon request

Part Numbering System







+70°C			
+125°C			
±0.5%			
±0.5%			
±0.5%			
±0.5%			
±0.5%			
±0.5%			

Specifications

<u>B</u>	
Tolerance	
$A = \pm .05\%$	
$B = \pm 0.1\%$	
$C = \pm 0.25\%$	
D = ± 0.5%	
F = ± 1%	