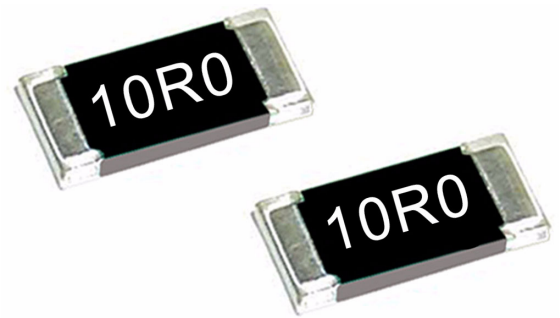


FCR Series — Thick Film Trimmable Chip Resistors

Features

- YAG laser user-trimmable in circuit
- Available in a variety of pre-trim tolerance ranges
- TCR of ± 200 ppm/ $^{\circ}$ C
- RoHS compliant / lead-free



Electrical Specifications

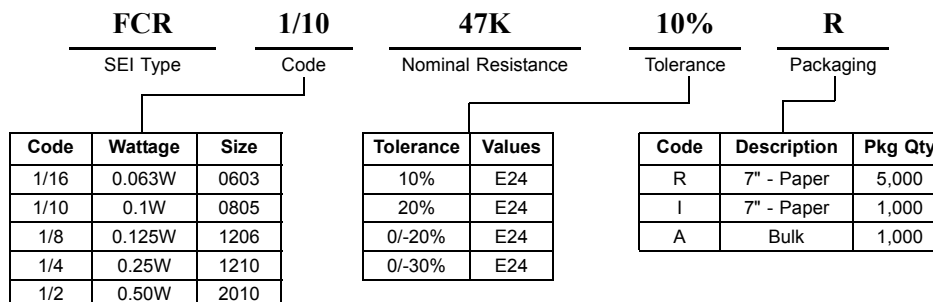
| Type / Code | Package Type | Power Rating (Watts) @ 70 $^{\circ}$ C | Maximum Working Voltage* | Maximum Overload Voltage | Resistance Temperature Coefficient | Ohmic Range and Tolerance | | | | |
|-------------|--------------|--|--------------------------|--------------------------|------------------------------------|---------------------------|------------------|------------------|------------------|------------------|
| | | | | | | 5% | 10% | 15% | 0/-20% | 0/-30% |
| FCR 1/16 | 0603 | 0.063W | 50 | 100 | ± 200 ppm/ $^{\circ}$ C | 10 Ω – 1M | 10 Ω – 1M | 10 Ω – 1M | 10 Ω – 1M | 10 Ω – 1M |
| FCR 1/10 | 0805 | 0.1W | 100 | 200 | ± 200 ppm/ $^{\circ}$ C | 10 Ω – 1M | 10 Ω – 1M | 10 Ω – 1M | 10 Ω – 1M | 10 Ω – 1M |
| FCR 1/8 | 1206 | 0.125W | 200 | 400 | ± 200 ppm/ $^{\circ}$ C | 10 Ω – 1M | 10 Ω – 1M | 10 Ω – 1M | 10 Ω – 1M | 10 Ω – 1M |
| FCR 1/4 | 1210 | 0.33W | 200 | 400 | ± 200 ppm/ $^{\circ}$ C | 10 Ω – 1M | 10 Ω – 1M | 10 Ω – 1M | 10 Ω – 1M | 10 Ω – 1M |
| FCR 1/2 | 2010 | 0.50W | 200 | 400 | ± 200 ppm/ $^{\circ}$ C | 10 Ω – 1M | 10 Ω – 1M | 10 Ω – 1M | 10 Ω – 1M | 10 Ω – 1M |

* Lesser of $\sqrt{\text{PR}}$ or maximum working voltage.

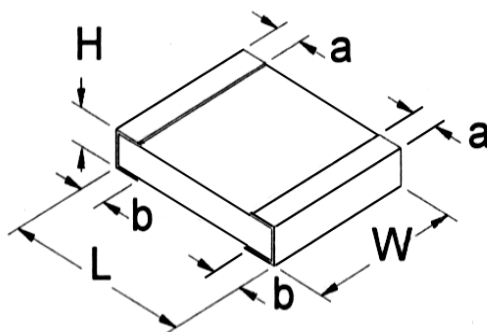
Mechanical Specifications

| Type / Code | L Body Length | W Body Width | H Body Height | a Top Termination | b Bottom Termination | Units |
|-------------|---|---|--------------------------------------|--------------------------------------|---------------------------------------|--------------|
| FCR 1/16 | 0.063 \pm 0.006 1.60 \pm 0.15 | 0.031 \pm 0.006 0.80 \pm 0.15 | 0.018 \pm 0.004 0.45 \pm 0.10 | 0.012 \pm 0.008 0.30 \pm 0.20 | 0.012 \pm 0.008 0.30 \pm 0.20 | inches mm |
| FCR 1/10 | 0.079 \pm 0.008 2.00 \pm 0.20 | 0.050 \pm 0.004 1.25 \pm 0.10 | 0.020 \pm 0.004 0.50 \pm 0.10 | 0.016 \pm 0.008 0.40 \pm 0.20 | 0.016 \pm 0.008 0.40 \pm 0.20 | inches mm |
| FCR 1/8 | 0.126 \pm 0.002/-0.008 3.20 \pm 0.05/-0.20 | 0.063 \pm 0.002/-0.006 1.60 \pm 0.05/-0.15 | 0.024 \pm 0.004 0.60 \pm 0.10 | 0.020 \pm 0.010 0.50 \pm 0.25 | 0.020 \pm 0.012 0.50 \pm 0.30 | inches mm |
| FCR 1/4 | 0.126 \pm 0.008 3.20 \pm 0.20 | 0.098 \pm 0.008/-0.004 2.50 \pm 0.20/-0.10 | 0.024 \pm 0.004 0.60 \pm 0.10 | 0.020 \pm 0.010 0.50 \pm 0.25 | 0.0220 \pm 0.008 0.50 \pm 0.20 | inches mm |
| FCR 1/2 | 0.197 \pm 0.006 5.00 \pm 0.15 | 0.098 \pm 0.006 2.50 \pm 0.15 | 0.021 \pm 0.006 0.55 \pm 0.15 | 0.024 \pm 0.010 0.60 \pm 0.25 | 0.024 \pm 0.010 0.60 \pm 0.25 | inches mm |

How to Order



FCR Series — Thick Film Trimmable Chip Resistors



| Performance Characteristics | |
|-----------------------------|---------------------------|
| Test | Test Results (JIS C 5202) |
| Load Life in Moisture | ±3% |
| Temperature Cycle | ±1% |
| Load Life | ±3% |
| Resistance to Solder Heat | ±1% |
| Terminal Adhesion | ±1% |
| Short Time Overload | ±2% |
| Operating Range | -55°C to +125°C |

Trimming Ratio Curve

