

# FCR Thick Film Power Resistors



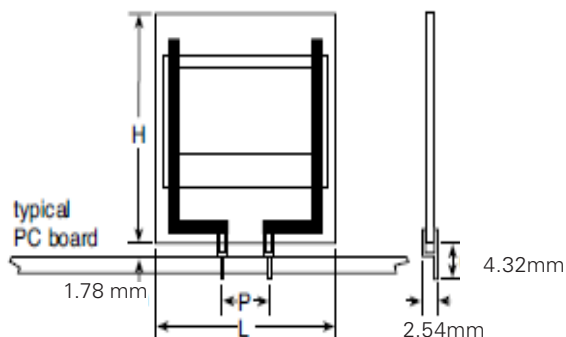
FCR resistors use thick film technology on an alumina substrate. The design yields greater power densities, requiring substantially less board space than other radial packages

- High Operating Temperature
- High Power Density
- RoHS Compliant
- Wide Resistance Range
- Space Saving Package



## Characteristics

Tolerance (Code):	$\pm 1\%$ (F), $\pm 5\%$ (J), $\pm 10\%$ (K)
Resistance Range:	5 watt from R25 to 200K 10 watt from 1R to 200K
Temperature coefficient:	$<1R \pm 450\text{ppm}/^\circ\text{C}$ , $1R$ to $100R \pm 100\text{ppm}/^\circ\text{C}$ , $>100R \pm 50\text{ppm}/^\circ\text{C}$
Overload:	5 times rated power as long as the one second average dissipation does not exceed the rated wattage. $\Delta R \pm 2\%$ , 2000 hours
Maximum working voltage:	350Vac, 500Vdc through glass. 1000Vac, 1500Vdc through substrate
Power rating:	Not to exceed power rating
Derating:	Based on $25^\circ\text{C}$ free air, FCR5 5 Watts, FCR10 10 Watts
Derating:	100% at $25^\circ\text{C}$ to 0% at $180^\circ\text{C}$ ambient
Terminals:	Solder Plated Phosphor Bronze



## Dimensions (mm)

Series	Wattage	P	L $\pm .508\text{mm}$	H $\pm .508\text{mm}$
FCR5	5	5.08	12.70	25.40
FCR10	10	20.32	25.40	25.40

## Ordering Procedure

Standard Resistor: Series, Resistance Value, Tolerance  
eg: FCR10 10R J

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It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If in doubt please ask ARCOL.