

# FA SERIES HIGH VALUE THICK FILM RESISTORS



Specialists in precision high value, high voltage resistors and networks, serving the industry since 1972.

The **FA Series** was designed to meet the growing need for higher resistance values in a smaller package size. The FA Series has not only done this but also delivers true non-inductive performance. Values up to 4 Tera Ohms are available while still maintaining all the advantages of thick film resistors.

## STANDARD FEATURES

- Voltage coefficients from .5 ppm to 5.0 ppm depending on value
- TCR range 25 ppm to 250 ppm depending on value when tested from 0°C to 70°C
- Tolerances from 1% to 20%
- Non-inductive performance
- High temperature tin/silver solder pads, able to pass MIL-STD-202, Method 107D, test conditions C-1
- Testing per MIL-PRF-49462
- 100% testing of voltage coefficients from 1.0 VDC up to 10,000 VDC, per MIL-STD-202, Method 309
- Custom Designed parts to meet your physical and electrical needs
- Gold contacts to insure linearity of resistance below 10 VDC
- Available in axial or radial leaded design

## SPECIFICATIONS

HMC TYPE	WATTAGE RATING	VOLTAGE RATINGS	RESISTANCE		DIMENSIONS +/- .010		
			MIN.	MAX.	LENGTH	HEIGHT	CL
FA60	0.5 W	1.0K VDC	1.0M	100G	0.400"	0.300"	0.300"
FA65	1.0 W	2.0K VDC	1.0M	200G	0.580"	0.400"	0.480"
FA80	2.0 W	5.0K VDC	1.0M	400G	1.000"	0.400"	0.900"
FA100	3.0 W	7.5K VDC	1.0M	800G	1.500"	0.400"	1.400"
FA150	4.0 W	10.0K VDC	1.0M	4.0T	1.800"	0.580"	1.600"
FA200	5.0 W	10.0K VDC	1.0M	4.0T	2.000"	1.000"	1.600"

## ENVIRONMENTAL PERFORMANCE

**Load Life:** 1,000 hours at rated voltage at +70°C, not to exceed rated power,  $\Delta R$ , 0.25% Max.

**Overvoltage/Overload:** 1.5 times rated voltage, not to exceed 5 times rated power for 5 sec.,  $\Delta R$ , 0.30% Max.

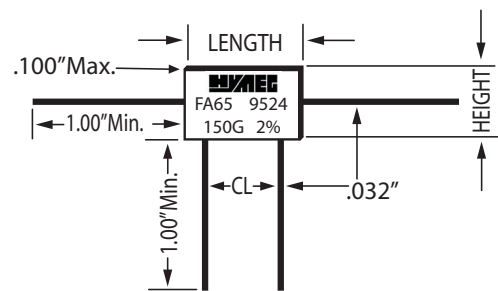
**Thermal Shock:** MIL-STD-202, Method 107, Cond. F,  $\Delta R$ , 0.10% Max.

**Insulation Resistance:** 10,000 Megohms minimum, at 750 volts DC

**Shelf Life:** 1 year at +25°C,  $\Delta R$ , 0.10% Max.

**Dielectric Strength:** MIL-STD-202, Method 301,  $\Delta R$ , 0.25% Max.

**Voltage Coefficient:** 0.5ppm Max. when tested per MIL-STD-202, Method 309



## HOW TO ORDER BY PART NUMBER:

The part number is a combination of series, size, thickness, substrate and wrap.

**Example:** HA65 - 10M - 1% - H

HMC TYPE: \_\_\_\_\_  
 RESISTANCE VALUE: \_\_\_\_\_  
 TOLERANCE: \_\_\_\_\_  
 TEMPERATURE COEFFICIENT: \_\_\_\_\_

25PPM = E	150PPM = L
50PPM = H	200PPM = N
100PPM = K	250PPM = R



sales@hymeg.com  
 www.hymeg.com

**HYMEG Corporation**  
 Call: 800-322-1953  
 P.O. Box 18802 • Clearwater, FL 33762