

Type MK Precision Power Film Radial-Lead Resistors

For Replacement Parts see the RoHS Compliant Models MK227, MK727, MK232, and MK732

Type MK Precision Film Resistors - Low and Standard Resistance Ranges

Model No.	Wattage	Max. Voltage	Oper. Temp. Max.	Dielect. Strength	Resistance			Dimensions	Encapsulation	Leadwire	Comments
					Low Min.	Standard Min.	Standard Max.				
MK120	0.50	200	175°C	300	1 Ω	5 Ω	2 Meg	Ref. Case "A" Dwg.	Transfer Molded	Tinned Copper	—
MK132	0.75	400	175°C	400	1 Ω	5 Ω	5 Meg	Ref. Case "B" Dwg.	Transfer Molded	Tinned Copper	—
MK132V	0.75	400	175°C	400	1 Ω	5 Ω	5 Meg	Ref. Case "C" Dwg.	Transfer Molded	Tinned Copper	With Standoff

Resistance Tolerance: ±1% (tolerances to ±0.1% available on values of 30 ohms or higher).

Overload/Overvoltage: 5 times rated power with applied voltage not to exceed 1.5 times maximum continuous operating voltage for 5 seconds, ΔR ±(0.15 percent + 0.01 ohm) max.

Operating Temperature: -55°C to +175°C.

Temperature Coefficient:

Resistance Range	Temp. Coef.
Standard : 5 Ω and above	50 ppm/°C
Low : 1 Ω to 4.99 Ω	200 ppm/°C

Temperature Coefficient referenced to +25°C, ΔR taken at -15°C and +105°C.

Insulation Resistance: 10,000 Megohms, minimum.

Load Life: 1,000 hours at +125°C at rated power, ΔR ±(0.4 percent +0.01 ohm) max.

Thermal Shock: Mil-Std-202, Method 107, Cond. B, ΔR ±(0.2 percent +0.01 ohm) max.

Moisture Resistance: Mil-Std-202, Method 106, ΔR ±(0.5 percent + 0.01 ohm) max.

Measurement Note: Resistance measurement on low resistance values shall be made at a point within 0.2 inch (5.08 mm) of the body.

Type MK Precision Film Resistors - Extended Resistance Range

Model No.	Wattage	Max. Voltage	Oper. Temp. Max.	Dielect. Strength	TC ppm/°C	Resistance		Dimensions	Encapsulation	Leadwire	Comments
						Min.	Max.				
MK620	0.50	200	175°C	300	80	2.01 Meg	40 Meg	Ref. Case "A" Dwg.	Transfer Molded	Tinned Copper	—
MK632	0.75	400	175°C	400	80	5.01 Meg	100 Meg	Ref. Case "B" Dwg.	Transfer Molded	Tinned Copper	—
MK632V	0.75	400	175°C	400	80	5.01 Meg	100 Meg	Ref. Case "C" Dwg.	Transfer Molded	Tinned Copper	With Standoff

Resistance Tolerance: ±1% (consult factory for tighter tolerances).

Overload/Overvoltage: 1.5 times max. voltage for 5 seconds, ΔR 0.5% max.

Operating Temperature: -55°C to +175°C.

Temperature Coefficient: See Table for TC value. TC referenced to +25°C, ΔR taken at -15°C and +105°C.

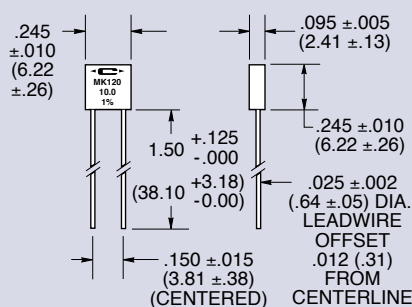
Insulation Resistance: 10,000 Megohms, minimum.

Load Life: 1,000 hours at +125°C at rated power, ΔR 0.5% max.

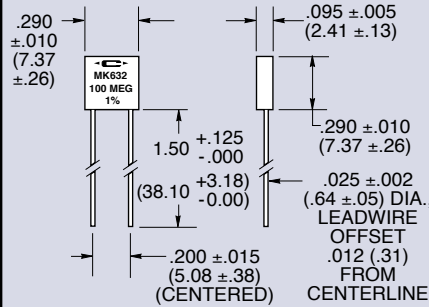
Thermal Shock: Mil-Std-202, Method 107, Cond. B, ΔR 0.5% max.

Moisture Resistance: Mil-Std-202, Method 106, ΔR 0.5% max.

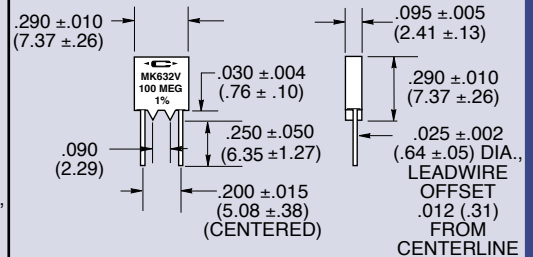
Case "A" Model MK120 and MK620



Case "B" Model MK132 and MK632



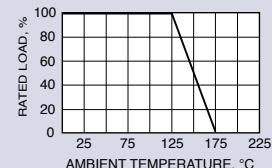
Case "C" Model MK132V and MK632V



Ordering Information:

Model Number: **MK132 - 500K - 1%** Tolerance
Resistor Value: _____

Derating Curve:



ALL DIMENSIONS IN INCHES AND (MILLIMETERS)