Model 112 Model 112R (RoHS Compliant)

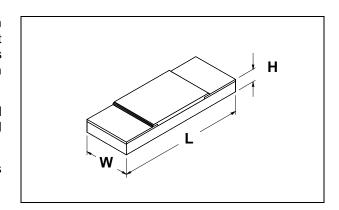
High Megohm Miniature Chip Resistor



Model 112 High Megohm Miniature Chip Resistor has thick film platinum/gold terminals fired to one side of a ceramic chip at about 900°C. The resistive glass does not contain any organic materials and is applied as a continuous film so exposure in hard vacuum environments will not create any problems due to outgassing.

Platinum/gold terminals can be soldered. However, ultrasonic ball bonding using gold wire has proven the best way to bond to standard platinum/gold terminals.

For TC bonding using gold or aluminum wire, this chip resistor is available with gold terminals on special order.



Applications:

- Hybrid Circuits
- High Impedance Load Resistors
- Low Noise, High Gain Feedback Resistors
- Low Current Biological & Medical Instrumentation
- Photon Infrared Detectors
- Piezoelectric Accelerometers
- Hydrophone Preamplifiers
- Extremely Low Noise Cryogenically Cooled First Stage Detection Circuits
- Electret Microphones
- Telecommunications Line Station Monitoring

Dimensions	L	W	Н
Inches	0.105	0.038	0.015
(Tolerance +/-)	0.005	0.003	0.003
Millimeters	2.67	0.97	0.38
(Tolerance +/-)	0.13	0.08	0.08

SPECIFICATIONS

Value / Tolerance:	$1X10^6$ to $9X10^9$ Ω $\pm 5\%$ $\pm 10\%$ $\pm 20\%$ $\pm 30\%$
	$1X10^{10}$ to $1X10^{11}~\Omega~\pm10\%~\pm20\%~\pm30\%$
	$2X10^{11}$ to $1X10^{12} \Omega \pm 20\% \pm 30\%$
Tighter	tolerances available on a "Best Efforts" basis
Noise figure, 1V bias, noise above	
thermal (Johnson) noise level:	0.5 dB
Operating Voltage Range (Recommended):	0 to 1 Volt
Maximum Operating Voltage:	to 60 Volts
Operating Temperature:	-270°C to +200°C

Resistors with intermediate values are available. Resistors below $1X10^6$ as well as resistors beyond $1X10^{12}$ are also available (special order).

RoHS compliant resistors (Model 112R) are available in certain values. Contact ELTEC for further information.

Note: Each resistor is measured at 1 VDC @ 25°C. Testing at other voltages is available on special order.

NOTICE: The information provided herein is believed to be reliable. However, ELTEC Instruments, Inc. assumes no responsibility for inaccuracies or omissions. Due to industry components being incorporated into ELTEC's devices and ELTEC continually striving for product improvement, specifications may change without notice.



(3K to 473K)