

MOX500 Series

Epoxy Molded, Metal Glaze-Metal Oxide Resistors



FEATURES

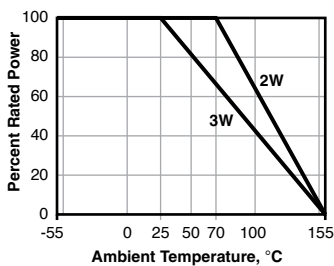
- Meets Mil-Std-202
- Meets IEC 61000-4-5 up to 2KV
- Molded Construction
- Available in E96 values

CHARACTERISTICS

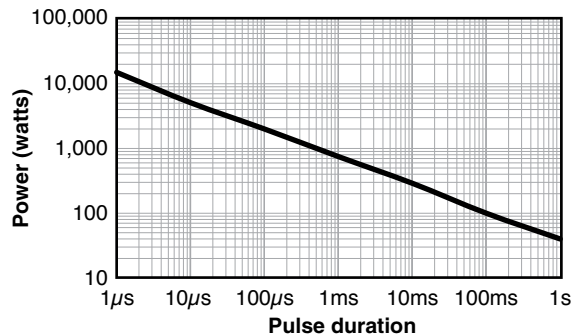
| | |
|----------------------------------|---|
| Resistor Type | Thick Film, Epoxy Molded |
| Power Rating | 2W at 70°C 3W at 25°C |
| Resistance Range | Metal Glaze: 1.5KΩ to 5MΩ Metal Oxide: 15Ω to <1.5KΩ |
| Tolerance | 1%, 2%, 5% |
| Temp. Coeff. Resistance | Metal Glaze: 100/200ppm Metal Oxide: 350ppm Not all tolerances and TCR values available throughout entire resistance range |
| Construction | Metal glaze 100/200 ppm Metal oxide 350 ppm |
| Max. Working Voltage | RCWV or 1000 V whichever lesser. (RCWV = rated DC or RMS AC continuous working voltage at commercial line frequency and waveform (volt)) |
| Diel. With-standing Volt. | 1000 VRMS |
| Terminals | Copper Wire, Solder Coated axial, RoHS composition |
| Oper. Temp. | -55° to +155°C |

| Characteristic | Test Method | ΔR limits |
|-------------------------------------|---|-----------|
| Moisture Resistance | MIL-STD-202, Method 106G | ±0.20% |
| Humidity | MIL-STD-202, Method 103, Condition B | ±0.25% |
| Shock | MIL-STD-202, Method 213, Condition I | ±0.10% |
| Vibration | MIL-STD-202, Method 204, Condition D | ±0.10% |
| Terminal Strength | MIL-STD-202, Method 211A, Condition A or B | ±0.10% |
| Short Term Overload | DC test potential 2.5 time the rated continuous working voltage but not exceeding twice the maximum voltage specified | ±0.5% |
| Load Life | 1000 hrs at RCWV duty cycle 1.5hr ON, 0.5 hr OFF at 70°C ±2°C | ±2% |
| Temperature Cycling | -65° to +125°C | ±0.10% |
| Resistance to soldering heat | Temp 350°C ±10°C for 3 ±0.5 sec | ±1% |
| Surge Immunity | IEC61000-4-5, waveform 1.2/50μS, 10 Pulses applied. Does not include values under 1KΩ. | <±1% |

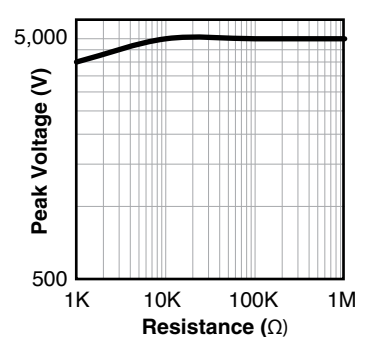
Derating



Single Impulse Test



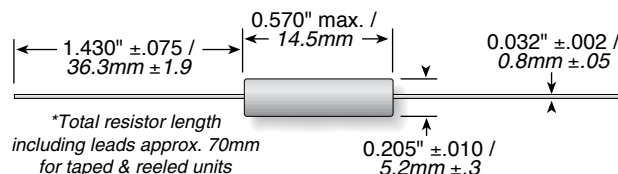
Surge Immunity Test



Resistors are tested in accordance with IEC61000-4-5, waveform 1.2/50μS, 10 Pulses applied. Limit of acceptance is a shift in resistance of less than 1% from the initial value. Graph data shows values equal or greater than 1KΩ.

DIMENSIONS

in./mm

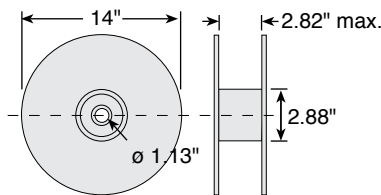
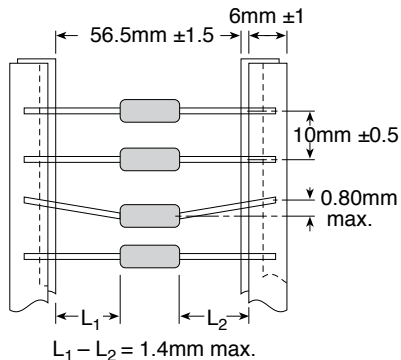


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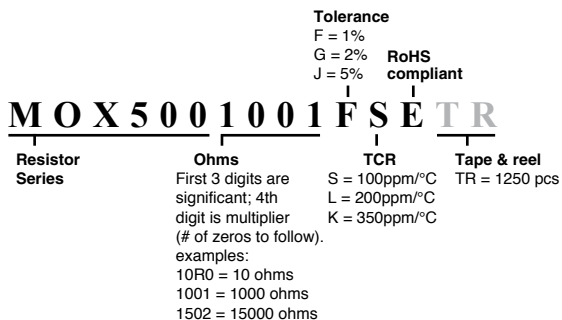
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TAPE & REEL

EIA-296 standard



ORDERING INFORMATION



Standard part numbers for MOX500 Series

| Resistance | 2% tolerance | 5% tolerance |
|------------|---------------|---------------|
| 100 | | MOX500100RJSE |
| 150 | | MOX500150RJSE |
| 270 | | MOX500270RJSE |
| 1K | | MOX5001001JSE |
| 1.5K | | MOX5001501JSE |
| 2.7K | MOX5002701GSE | |
| 3.3K | | MOX5003301JSE |
| 4.3K | | MOX5004301JSE |
| 6.8K | | MOX5006801JSE |
| 7.5K | MOX5007501GSE | |
| 10K | | MOX5001002JSE |
| 15K | | MOX5001502JSE |
| 18K | | MOX5001802JSE |
| 20K | MOX5002002GSE | |
| 27K | MOX5002702GSE | |
| 33K | | MOX5003302JSE |
| 47K | MOX5004702GSE | |
| 66K | | MOX5006602JSE |
| 100K | MOX5001003GSE | |
| 150K | MOX5001503GSE | |
| 220K | MOX5002203GSE | |
| 270K | MOX5002703GSE | |
| 330K | MOX5003303GSE | |
| 1M | MOX5001004GSE | |