Mox700 Series

High Precision Metal Film Axial Leaded Resistor



FEATURES

- Very tight tolerance down to ±0.02% available
- Extremely low TCR down to ±5PPM/
- High precision
- Excellent stability



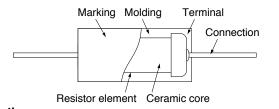
APPLICATIONS

- Precision equipment
- Measurement equipment
- Audio amplifiers
- Dispensing systems
- Imaging equipment

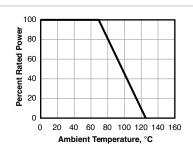
CHARACTERISTICS

Power Rating	0.25 watts @70°C			
Operating Temp. Range	-55 ~ +125°C			
Max. Operating Voltage	250V			
Max. Overload Voltage	500V			
Resistance Range	10Ω -1M			
Resistance Tolerance	±0.02%, ±0.05%, ±0.1%, ±1%			
TCR	10Ω - 500K: ±5			
	10Ω - 1M: ±10, ±15, ±25			
Storage	15~28°C; Humidity < 80%RH			
Rated continuous work- ing voltage	1 3			
Overload Voltage	2.5*√(P*R) or max. overload voltage, whichever is lower			
Packaging	50 pc packs; tape and reel optional			

Construction



Derating



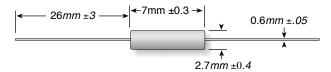
PERFORMANCE					
Item	Requirement	Test Method			
TCR	As Spec.	Resistance value at room temperature and room temperature+60°C			
Short Time Overload	$\pm (0.05\% + 0.05\Omega)$	JIS-C-5201-1 5.5; RCWV*2.5 or Max. overload voltage whichever is lower for 5 seconds			
Insulation Resistance	>1,000M	MIL-STD-202F Method 302 Apply 500VDC for 1 minute			
Endurance	$\pm (0.2\% + 0.05\Omega)$	MIL-STD-202F Method 108A; 70±2°C, RCWV for 1000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"			
Damp Heat with Load	±(0.2%+0.05Ω)	MIL-STD-202F Method 103B; 40±2°C, 90~95% R.H., RCWV for 1000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"			
Solderability	95% min. Coverage	MIL-STD-202F Method 208H; 245±5°C for 5 seconds			
Res. to Soldering Heat	±(0.05%+0.01Ω)	350±10°C for 3 seconds or 260±5°C for 10 seconds			
Terminal Strength	Tensile ≥2.5kg	Tensile strength: for 10 sec.; Torsional strength: Rotated through 360°, 5 rotations.			
Pulse Overload	±(0.1%+0.01Ω)	JIS-C-5201-1 5.8; 4 times RCWV for 10000 cycles with 1second "ON" and 25 second "OFF"			
Temperature Cycle	±(0.05%+0.05Ω)	-25°C (30min)/+85°C (30min), 5 cycles			
	No deterioration of coatings and markings	JIS-C-5201-1 6.9; Trichroethane for 3 min. with ultrasonic			



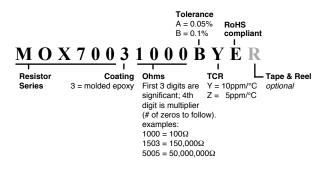
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DIMENSIONS



ORDERING INFORMATION



Standard Part Numbers MOX70031000BYE MOX70

MOX70031000BYE MOX70031200BZE MOX70032500BZE MOX70035000BYE MOX70037500BZE	MOX70031002AZE MOX70031002AYE MOX70031002BYE MOX70031002BZE MOX70032002BZE MOX70034002BYE
MOX70031001BYE MOX70031801BYE MOX70032001BYE MOX70032501BYE	MOX70031003BZE MOX70031003BYE MOX70032003BZE MOX70032003BYE
MOX70034001BYE MOX70034991AYE MOX70034991BYE MOX70034991AZE MOX70035761AZE	MOX70031004BYE



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Ohmite:

MOX70031000BYE	MOX70031001BYE	MOX70031001BZE	MOX70031002AYE	MOX70031002AZE
MOX70031002BYE	MOX70035761AZE	MOX70037500BZE	MOX70034001BYE	MOX70034002BYE
MOX70034991AYE	MOX70034991AZE	MOX70034991BYE	MOX70035000BYE	MOX70032001BYE
MOX70032002BZE	MOX70032003BYE	MOX70032003BZE	MOX70032500BZE	MOX70032501BYE
MOX70031002BZE	MOX70031003BYE	MOX70031003BZE	MOX70031004BYE	MOX70031200BZE
MOX70031801BYE				