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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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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

ROHS Constant Constant Constant Constant Constant Constant Constant Constant

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 continuos working voltage at commercial line frequency and waveform (volt))	
Diel. Width- 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 con- tinuous working voltage but not exceed- ing 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 $\pm 10^{\circ}$ C for 3 ± 0.5 sec	±1%
Surge Immunity	IEC61000-4-5, waveform 1.2/50 μ S, 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 1.2/50 μ S, 10 Pulses applied. Limit of acceptance is a shift in resistance of less then 1% from the initial value. Graph data shows values equal or greather than 1K Ω .

DIMENSIONS



1-866-9-OHMITE • Int'l 1-847-258-0300 • Fax 1-847-574-7522 • www.ohmite.com • info@ohmite.com

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in./mm

MOX500 Series

Epoxy Molded, Metal Glaze-Metal Oxide Resistors

TAPE & REEL



ORDERING INFORMATION

<u>MOX500</u> <u>1001</u> FSE <u>TR</u>

Resistor Series

rev 10/17-1

Ohms First 3 digits are significant; 4th digit is multiplier (# of zeros to follow). examples: 10R0 = 10 ohms 1001 = 1000 ohms 1502 = 15000 ohms

TCR Tape & reel S = 100ppm/°C TR = 1250 pcs L = 200ppm/°C K = 350ppm/°C

Standard part numbers for MOX500 Series

100 MOX500100RJSE 150 MOX500150RJSE 270 MOX500150RJSE 1.5K MOX5001001JSE 1.5K MOX5001001JSE 2.7K MOX5002701GSE 3.3K MOX5003301JSE 4.3K MOX5004301JSE 6.8K MOX5004301JSE 7.5K MOX5007501GSE 10K MOX5001002JSE 15K MOX5001002JSE 16K MOX5001002JSE 20K MOX500202GSE 20K MOX5002702GSE 33K MOX50033032JSE 47K MOX5001003GSE 100K MOX500103GSE 100K MOX5002703GSE 220K MOX5002203GSE 100K MOX5002703GSE 220K MOX5002703GSE 220K MOX5002703GSE 220K MOX5002203GSE 270K MOX5003303GSE 330K MOX5003303GSE 330K MOX5003033GSE 1M MOX5001004GSE	Resistance	2% tolerance	5% tolerance
150 MOX500150RJSE 270 MOX500270RJSE 1K MOX5001001JSE 1.5K MOX50011JSE 2.7K MOX5002701GSE 3.3K MOX5003301JSE 4.3K MOX5004301JSE 6.8K MOX5006801JSE 7.5K MOX5007501GSE 10K MOX5001002JSE 15K MOX5001002JSE 15K MOX5001502JSE 20K MOX500202GSE 20K MOX5002702GSE 33K MOX5003302JSE 47K MOX5001003GSE 100K MOX500103GSE 100K MOX5002203GSE 220K MOX5003303GSE 1M MOX5001004GSE	100		MOX500100RJSE
270 MOX500270RJSE 1K MOX5001001JSE 1.5K MOX5001001JSE 2.7K MOX5002701GSE 3.3K MOX5003301JSE 4.3K MOX5004301JSE 6.8K MOX5006801JSE 7.5K MOX5007501GSE 10K MOX5001002JSE 15K MOX5001002JSE 20K MOX5002702GSE 20K MOX5002702GSE 33K MOX5001003GSE 100K MOX5001003GSE 100K MOX500103GSE 220K MOX500103GSE 150K MOX5002703GSE 220K MOX5002703GSE 220K MOX5002703GSE 220K MOX5002703GSE 220K MOX5002703GSE 220K MOX5003303GSE 330K MOX5003303GSE 330K MOX50030303GSE 1M MOX5001004GSE	150		MOX500150RJSE
1K MOX5001001JSE 1.5K MOX5001001JSE 2.7K MOX5002701GSE 3.3K MOX5003301JSE 4.3K MOX5004301JSE 6.8K MOX50006801JSE 7.5K MOX5007501GSE 10K MOX5001002JSE 15K MOX5001002JSE 20K MOX5002702GSE 27K MOX5002702GSE 33K MOX50030332JSE 47K MOX5004702GSE 100K MOX500103GSE 100K MOX500103GSE 220K MOX5002203GSE 220K MOX5002203GSE 230K MOX5003203GSE 330K MOX5003303GSE 1M MOX5001004GSE	270		MOX500270RJSE
1.5K MOX5001501JSE 2.7K MOX5002701GSE MOX5003301JSE 3.3K MOX5004301JSE MOX5004301JSE 4.3K MOX5004301JSE MOX5006801JSE 6.8K MOX5001002JSE MOX5001002JSE 10K MOX5001002JSE MOX5001002JSE 10K MOX5002002GSE MOX5001802JSE 20K MOX5002702GSE MOX5001802JSE 33K MOX5002702GSE MOX5003302JSE 100K MOX5001003GSE MOX5006602JSE 100K MOX5002703GSE MOX5006602JSE 220K MOX5002203GSE MOX5006602JSE 220K MOX5002703GSE MOX5003303GSE 220K MOX5002703GSE MOX5003303SE 220K MOX5003303SE MOX5003303SE 220K MOX5003303SE MOX5003303SE 330K MOX5003303SE MOX5003303SE 330K MOX5003033SE MOX5003303SE 30K MOX5001004GSE MOX500104GSE	1K		MOX5001001JSE
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3.3K MOX5003301JSE 4.3K MOX5004301JSE 6.8K MOX5004301JSE 7.5K MOX5007501GSE 10K MOX5001002JSE 15K MOX5001502JSE 15K MOX500102JSE 20K MOX500202GSE 27K MOX5002702GSE 33K MOX50033032JSE 47K MOX5004702GSE 66K MOX500103GSE 100K MOX500103GSE 150K MOX5002703GSE 220K MOX5002703GSE 230K MOX5003303GSE 330K MOX5003303GSE 1M MOX5001004GSE	2.7K	MOX5002701GSE	
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6.8K MOX5006801JSE 7.5K MOX5007501GSE 10K MOX5001002JSE 15K MOX5001502JSE 18K MOX5001002JSE 20K MOX500202GSE 27K MOX5002702GSE 33K MOX5003302JSE 47K MOX5001003GSE 100K MOX5001003GSE 150K MOX500203GSE 220K MOX5002703GSE 20K MOX5002703GSE 20K MOX5002703GSE 20K MOX5003303GSE 10M MOX5001004GSE	4.3K		MOX5004301JSE
7.5K MOX5007501GSE 10K MOX5001002JSE 15K MOX5001502JSE 18K MOX5001502JSE 20K MOX5002002GSE 27K MOX5002702GSE 33K MOX5003302JSE 47K MOX5004702GSE 66K MOX5006602JSE 100K MOX5001503GSE 150K MOX5002703GSE 220K MOX5002703GSE 230K MOX5003303GSE 1M MOX5001004GSE	6.8K	MOVEDOZEDIOOE	MOX5006801JSE
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20K MOX5002002GSE 27K MOX5002702GSE 33K MOX5003302JSE 47K MOX5004702GSE 66K MOX5006602JSE 100K MOX5001503GSE 150K MOX5002203GSE 220K MOX5002203GSE 270K MOX5003303GSE 330K MOX5003303GSE 1M MOX5001004GSE	18K		MOX5001802JSE
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	1M	MOX5001004GSE	

