

SMX Series — Power Metal Oxide Resistors

Features

- Economical SMT 2 and 3 watt
- Resistance range from 0.1Ω to 470K
- Flex termination for absorbing Thermal Expansion/ Vibration
- RoHS compliant/ lead-free
- Excellent heat dissipation
- Superior surge and pulse handling
- High temp mold encapsulation which provides protection from harsh environments
- Lower values available, contact factory



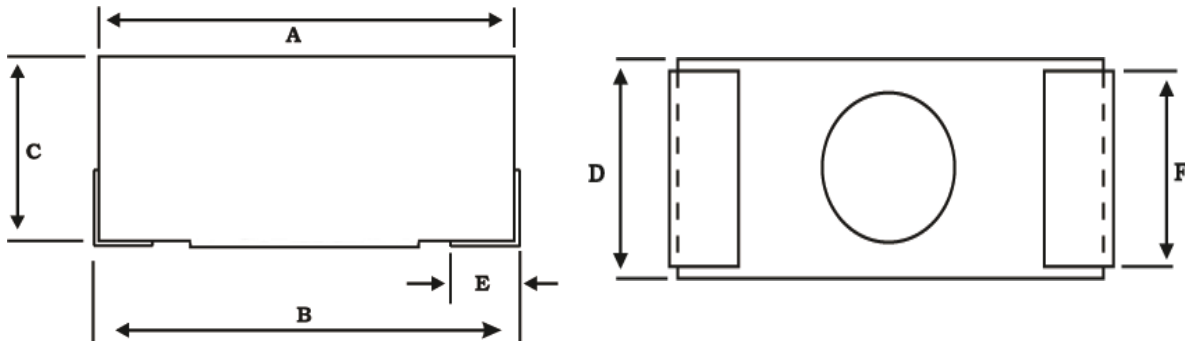
Electrical Specifications

Type	Power Rating (Watts) @ 70°C	Maximum Working Voltage*	Maximum Pulse Voltage	Resistance Temperature Coefficient	Ohmic Range and Tolerance	
					1%	5%
SMX 2	2	350	600	±200 ppm/°C	2.0K – 100K	2.0K – 470K
SMX 3	3	500	800	±200 ppm/°C	3.01K – 118K	3.01K – 470K

* Lesser of \sqrt{PR} or maximum working voltage.

Mechanical Specifications

Type	A Body Length	B Body Diameter	C Lead Length	D Lead Diameter	E Termination Width	F Termination Length	Units
SMX 2	0.41	0.435	0.18	0.24	0.10	0.115	inches
	10.4	11.1	4.6	6.1	2.5	2.9	
SMX 3	0.629	0.708	0.256	0.276	0.11	0.115	inches
	16.0	18.0	6.5	7.0	2.5	2.9	



Performance Characteristics

Test	Test Results
Moisture Resistance	±1.5%
Thermal Shock	±1.0%
Load Life @70°C – 1,000 hrs.	±5.0%

How to Order

SMX	2	10K	5%	R
SEI Type	Code	Nominal Resistance	Tolerance	Packaging
	Code	Tolerance	Values	Code
	2	1%	E96	R
	3	5%	E24	R
				T
				T
				A
				Description
				SEI Types
				Pkg Qty
				SMX 2
				SMX 3
				SMX 2
				SMX 3
				All
				2,500
				1,000
				1,000
				500
				1,000

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Performance Characteristics

Test	Test Results
Shock and Vibration	±1.0%
Resistance to Soldering Heat	±1.0
Terminal Strength	±0.5%
Dielectric Withstanding Voltage	±0.001%/V
Short Time Overload	±0.75%
Low Temperature Operation	±0.5%
Operating Temperature Range	-55°C to +165°C