

ATTENUATOR CHIP

DATA SHEET

PART SERIES: TS09XXSMT

SHEET 1 OF 3
Dwg 1012955

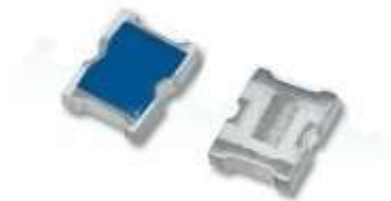
EN 19-0520
Revision C

FEATURES

- Small Footprint
- High Power
- Surface Mount
- Low VSWR
- Easy Installation
- Wide Attenuation Offering

APPLICATIONS

- Mobile Networks
- Broadcast
- High Power Amplifiers
- Isolators/Circulators
- Military
- Instrumentation



GENERAL DESCRIPTION

EMC Technology offers the widest selection of chip attenuators worldwide. Chip components are offered in Alumina, Aluminum Nitride, Beryllium Oxide, and CVD diamond for maximum performance.

ORDERING INFORMATION

Part Identifier: TS09XXSMT
(XX) – dB Value

SPECIFICATIONS

1.0 ELECTRICAL

Nominal Impedance: 50 ohms
Frequency Range: DC – 20 GHz
Attenuation Values Available: 1 – 10 in 1 dB increments
Attenuation Accuracy:

ATTENUATION ACCURACY @25°C		
dB	DC – 15 GHz	15-20 GHz
0 – 4	±0.5	±0.5
5 – 10	±0.5	±0.75

VSWR @ 25°C: DC – 20 GHz - 1.40:1 Typical
DC – 20 GHz - 1.70:1 Max

Input Power CW:

Input Power CW	
Attenuation (dB)	Power (W)
0 - 1	4.00
2 - 3	1.50
4 - 6	1.25
7 - 10	1.00
Full Rated Power at 100 C. Power is derated linearly to 0 Watts at 150 C	



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2.0 ENVIRONMENTAL

Operating Temperature: -55°C to +150°C

3.0 MARKING

Unit Marking: None

4.0 QUALITY ASSURANCE

Sample Inspect Per MIL-STD-105, Level II, 1.0% AQL₂

Visual and Mechanical Inspection for Conformance to Outline Drawing

Measure Attenuation and VSWR

Data Retention - Standard

5.0 PACKAGING

Standard Packaging: Tape and Reel

6.0 MECHANICAL

Resistive Film: Thick Film

Terminal Material: Thick Film, Nickel Barrier, Solder Plated

Metric Dimensions: Provided for reference only

Workmanship PER MIL-R-55342

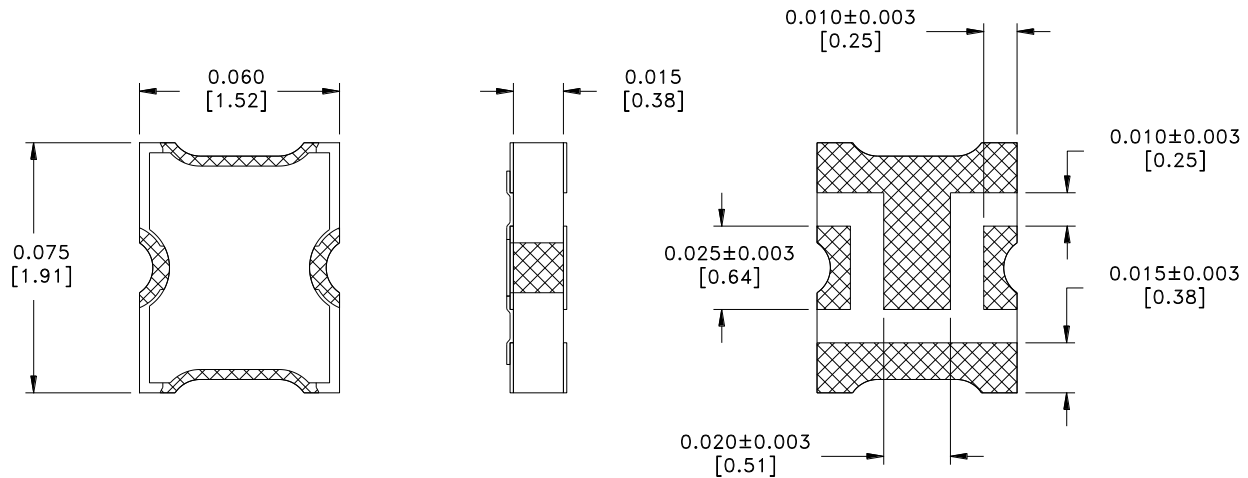
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Unless Otherwise Specified: TOLERANCE: X.XXX = ± 0.005

7.0 SUGGESTED MOUNTING FOOTPRINT

Part Number	Inches						mm					
	A	B	C	D	S	W	A	B	C	D	S	W
TS09XXSMT	0.019	0.011	0.012	0.041	0.012	0.070	0.48	0.28	0.30	1.04	0.30	1.78

