



ATTENUATOR CHIP 1 WATT

DATA SHEET

PART SERIES: AT5XXF

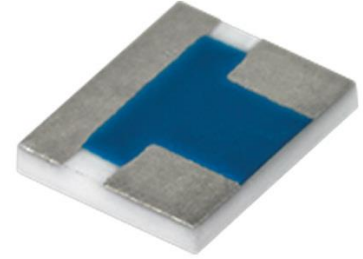
SHEET 1 OF 2
Dwg 1016305ECO-074828
Revision B

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

Smiths Interconnect 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: AT5XXF
(XX) – dB Value

SPECIFICATIONS

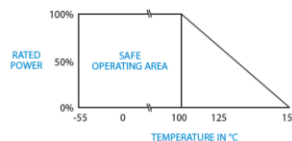
1.0 ELECTRICAL

Nominal Impedance: 50 Ω
Frequency Range: DC – 18 GHz
Attenuation Values Available: 0 – 6 dB in 1 dB increments and 10 dB
Attenuation Accuracy:

Attenuation Accuracy	
dB	DC – 18 GHz
0	-0, +0.5
1 – 3	± 0.5
4 – 6	± 0.75
10	± 1.0

Input Power CW: 1.0 watts

Power Derating Curve



Peak Power: 10 watts with a 10 μ s pulse width @ 1% duty cycle.
VSWR: DC – 18GHz - 1.50 Max



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2.0 ENVIRONMENTAL

Operating Temperature:	-55°C to +150°C
Non-operating Temperature:	-65°C to +150°C
Temperature Coefficient:	+/-200 PPM / °C max

3.0 MARKING

Unit Marking:	Marked with dB value
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4.0 QUALITY ASSURANCE

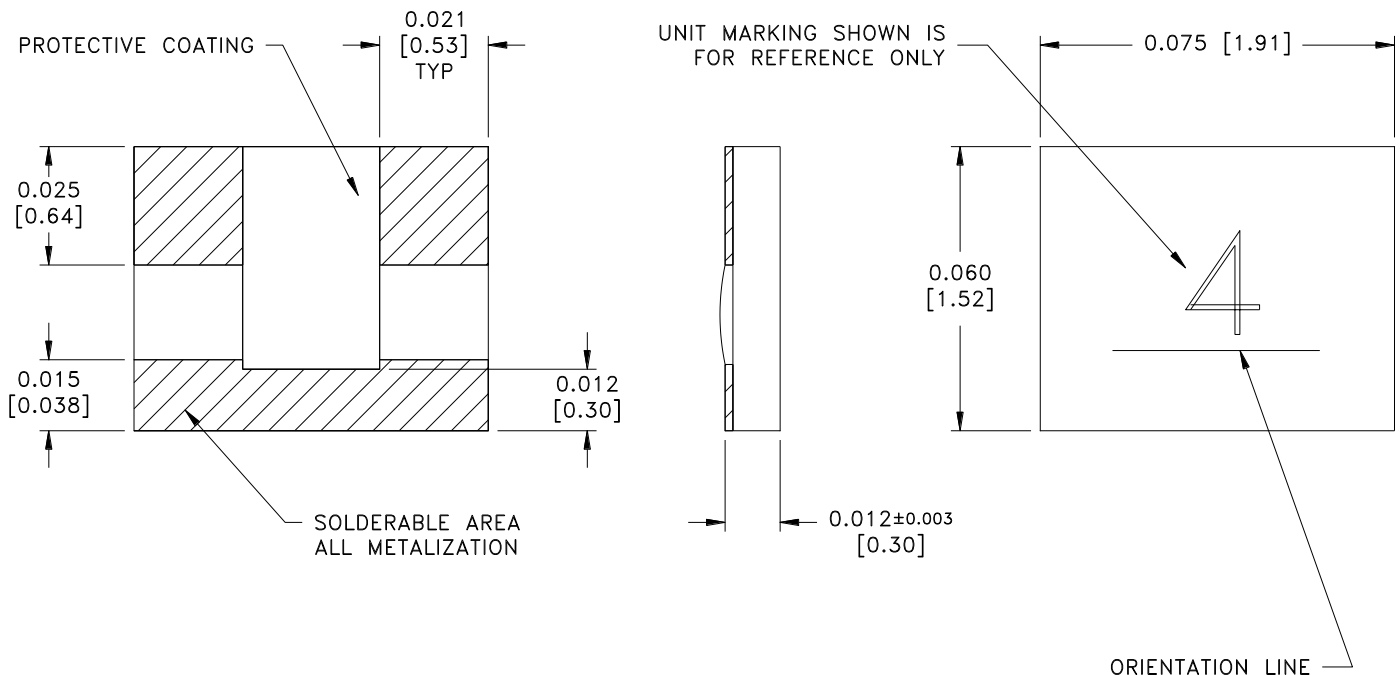
Sample inspect per ANSI/ASQC z1.4 general inspection, level II, AQL = 1.0.

Visual and mechanical examination for conformance to outline dwg requirements.

Standard Packaging:	Tape and Reel
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5.0 MECHANICAL

Resistive Film:	Thick Film
Terminal Material:	Thick Film, Lead free plating, RoHS compliant
Metric Dimensions:	Provided for reference only
Workmanship	PER MIL-PRF-55342



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