

# ATTENUATOR CHIP

## 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: TS09XXWB2**  
(XX) – dB Value

## SPECIFICATIONS

### 1.0 ELECTRICAL

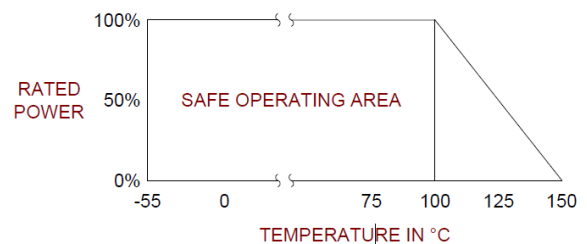
Nominal Impedance: 50 ohms  
Frequency Range: DC – 20 GHz  
Attenuation Values Available: 1 – 10 in 1 dB increments  
Attenuation Accuracy:

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 – 10 GHz - 1.25:1 Max  
10 – 20 GHz - 1.45:1 Max

Input Power CW:

Input Power CW	
Attenuation	Power
( dB )	( 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
Non-operating Temperature:	-65°C to +150°C

## 3.0 MARKING

Unit Marking:	None
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## 4.0 QUALITY ASSURANCE

**Sample Inspect Per MIL-STD-105, Level II, 1.0% AQL<sub>2</sub>**

Visual and Mechanical Inspection for Conformance to Outline Drawing

Measure Attenuation and VSWR

Data Retention - Standard

## 5.0 PACKAGING

Standard Packaging:	Tape and Reel
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## 6.0 MECHANICAL

Resistive Film:	Thick Film
Terminal Material:	Thick Film, Bondable Gold
Ground Material:	Thick Film, Solderable
Metric Dimensions:	Provided for reference only
Workmanship	PER MIL-R-55342

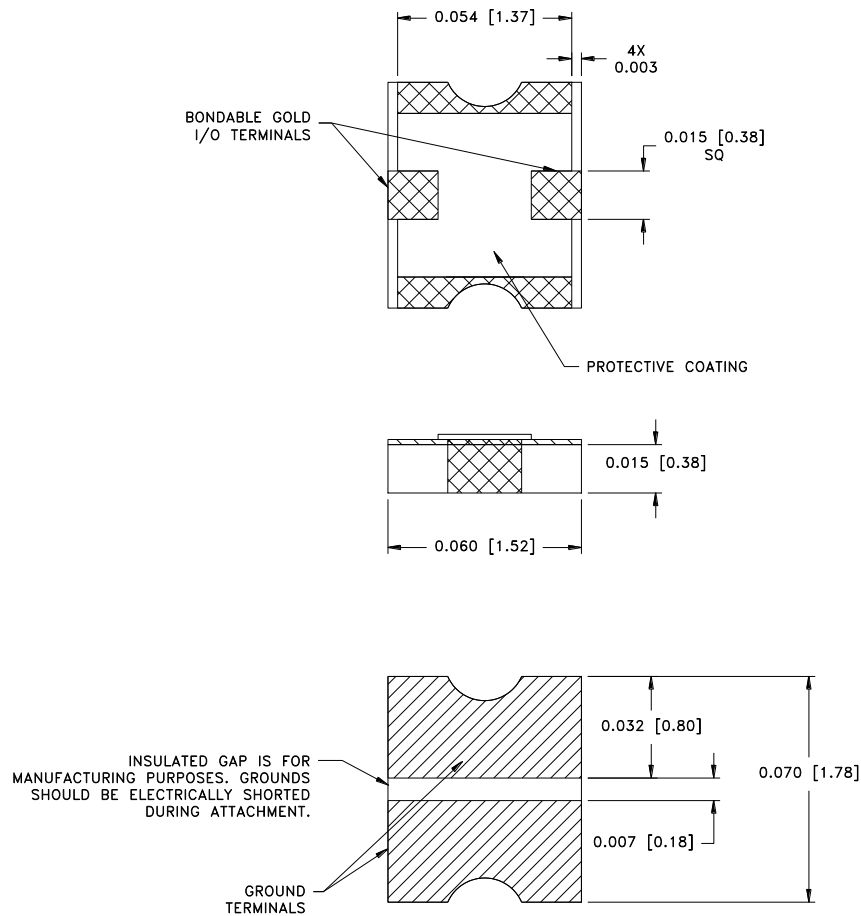
# ATTENUATOR CHIP

DATA SHEET

PART SERIES: TS09XXWB2

SHEET 3 OF 3  
Dwg 1012675

EN 19-0520  
Revision C



Unless Otherwise Specified: TOLERANCE: X.XXX =  $\pm 0.005$