

### Microwave Absorber Material

#### DESCRIPTION

**CHO-MUTE™ 9000** elastomer microwave absorber is designed to offer wide band attenuation within operating frequencies of 500MHz to 18GHz. CHO-MUTE 9000 incorporates a high tech silicone polymer system that offers the benefit of wide band absorption and high permeability in a lightweight and flexible product form. CHO-MUTE 9000 is an efficient cavity and surface current absorber.

#### BENEFITS

- Microwave absorption material covering a wide range of frequency.
  - CHO-MUTE 9000 “500MHz to 18GHz”
- High performance RF absorption - Up to 25 dB
- Available in several thicknesses:
  - 0.010” (0.25mm) through 0.125” (3.2mm)
- Flexible
- Environmental Friendly
- User friendly
- Global product availability

#### MICROWAVE ABSORPTION

CHO-MUTE 9000 exhibits high permeability and magnetic loss tangents. CHO-MUTE 9000 is an excellent cavity resonant absorber and provides broadband free space absorption from 500MHz to 18GHz.

#### APPLICATIONS

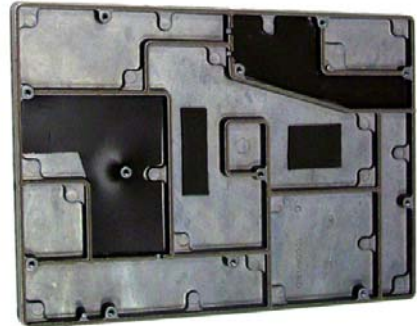
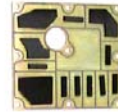
CHO-MUTE 9000 is effective in many applications to eliminate EMI/EMC problems in, transmitters, transceivers, microcontrollers, microprocessors etc.

*Potential applications include:*

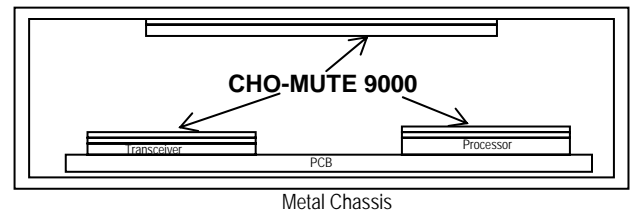
- Hand held electronics, wireless voice or data telecommunication, infotainment, testing equipment, PDAs
- Military electronics, C<sup>3</sup>I, navigation, GPS, ruggedized computers, night vision
- Antenna performance, surface current reduction
- Office and telecommunication infrastructure equipment, computing, switch gear, power amplifiers, routers

#### AVAILABILITY

CHO-MUTE 9000 material is available globally in sheets, die cut or molded parts. Sheets are available with or with out PSA and thickness ranging from 0.01” (0.25mm) to 0.125” (3.0mm).



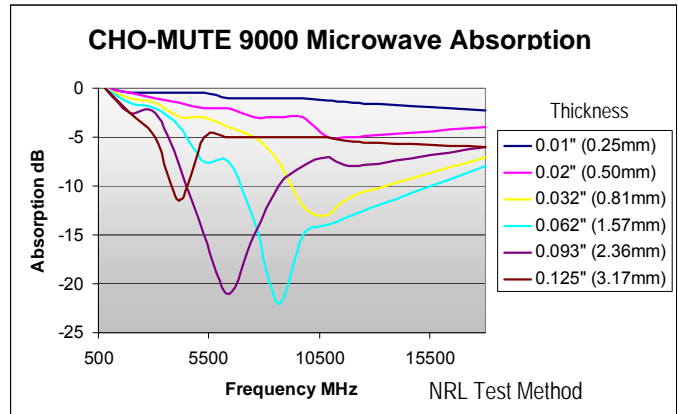
Typical Application



**Standard Sheet Stock Part Number**

46-TA-1020-9000

<b>T</b> hickness, inch (mm)	<b>A</b> dhesive (PSA)
1. 0.020 (0.51)	0. No Adhesive
2. 0.032 (0.81)	1. Adhesive Backing
3. 0.062 (1.57)	
4. 0.093 (2.36)	
5. 0.125 (3.18)	
7. 0.010 (0.25)	



Custom shapes available. Contact Parker Chomerics for quote  
 Standard sheet dimension is 10" (25.4cm) x 20" (50.8cm)

TYPICAL PROPERTIES		
Property	Units	CHO-MUTE 9000
<b>COMPOSITION</b>		
Ferrous filled silicone		
<b>ELECTRICAL</b>		
Surface Resistance Initial	Ω/square	>1M
Bulk Volume Resistivity Initial	Ω•cm	>1M
<b>MECHANICAL</b>		
Operating Temperature Range		-50°C to 160°C
Tensile Strength	PSI (MPa)	500 (3.44)
Elongation	(% min)	200
Hardness "Shore A"	Shore A	55
Tear Strength	Lb/in (N/m)	60 (10.5k)
<b>THERMAL</b>		
Thermal Conductivity	W/m-K	0.56
<b>PHYSICAL</b>		
Specific Gravity		3.4

**BASICS OF SHEET USAGE**

