

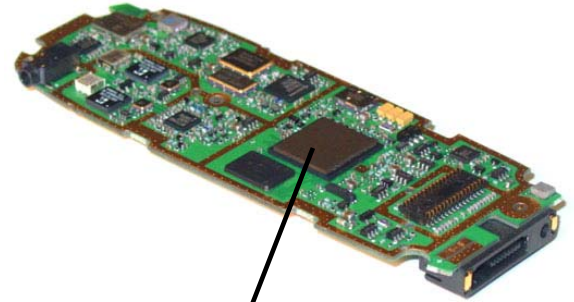
RF Absorber Material

DESCRIPTION

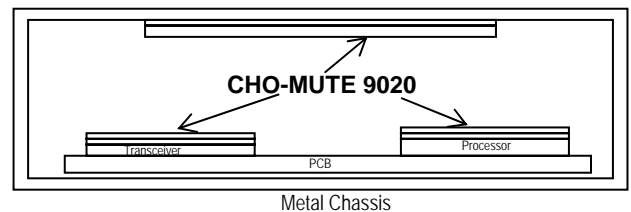
CHO-MUTE™ 9020 elastomer RF absorber is designed to offer wide band attenuation within operating frequencies of 30MHz to 12 GHz. Typical electronics systems operating within this band are personal computers, mobile phones and PDA's. CHO-MUTE 9020 incorporates a high tech silicone polymer system that offers the benefit of wide band absorption and high permeability in a lightweight and flexible product form. CHO-MUTE 9020 is extremely effective in absorbing surface currents along with free space electromagnetic fields.

BENEFITS

- RF absorption material covering a wide range of frequency.
 - CHO-MUTE 9020 Material "30MHz to 12GHz"
- High performance RF absorption - Up to 20 dB
- Available in several thicknesses:
 - 0.010" (0.25mm) through 0.125" (3.2mm)
- Flexible
- Environmentally friendly
- User friendly
- Global product availability



Typical Application



RF ABSORPTION

CHO-MUTE 9020 material exhibits high permeability and magnetic loss tangents. CHO-MUTE 9020 material is an excellent cavity resonant absorber and provides broadband free space absorption from 30MHz to 12GHz.

APPLICATIONS

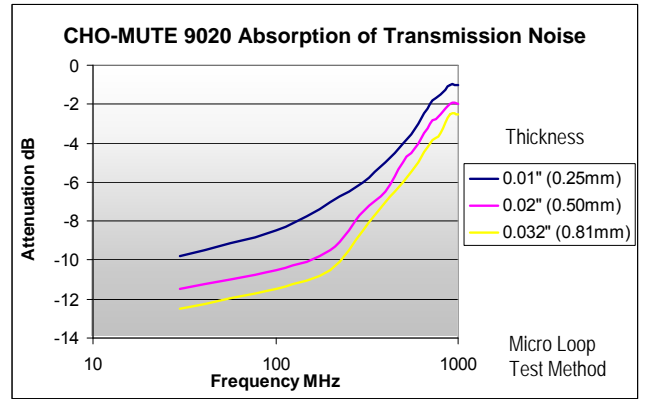
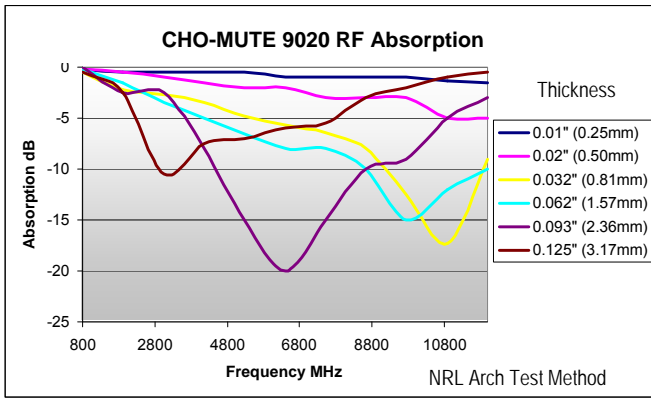
Cho-Mute 9020 material can be used on a variety of applications to eliminate problems EMI/EMC problems in, transmitters, transceivers, microcontrollers, microprocessors etc.

Potential applications include:

- Hand held electronics, wireless voice or data telecommunication, infotainment, testing equipment, PDAs
- Military electronics, C3I, navigation, GPS, ruggedized computers, night vision
- Antenna performance, surface current reduction
- Office and telecommunication infrastructure equipment, computing, switch gear, power amplifiers, and routers.

AVAILABILITY

CHO-MUTE 9020 material is available globally in sheets, die cut or molded parts. Sheets are available with or with out PSA and the thickness ranging from 0.01" (0.25mm) to 0.125" (3.0mm).



Standard Sheet Stock Part Number

46-**TA**-1020-9020

Thickness, inch (mm) **A**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 9020
COMPOSITION		
Ferrous filled silicone		
ELECTRICAL		
Surface Resistance Initial	Ω/square	>1M
Bulk Volume Resistivity Initial	Ω•cm	>1M
MECHANICAL		
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)
THERMAL		
Thermal Conductivity	W/m-K	0.56
PHYSICAL		
Specific Gravity		3.4

BASICS OF SHEET USAGE

No sheet

