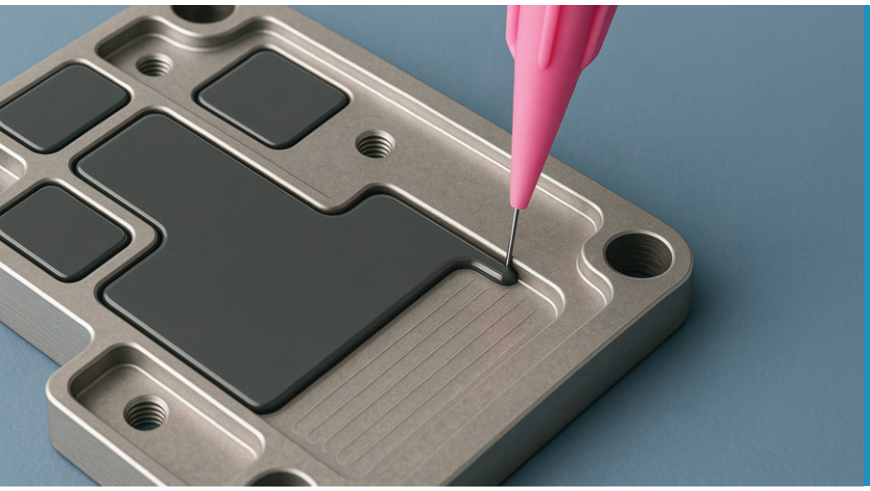
1-40 GHZ

AC-001 Series

Dispensable RF Absorbers



MATERIAL

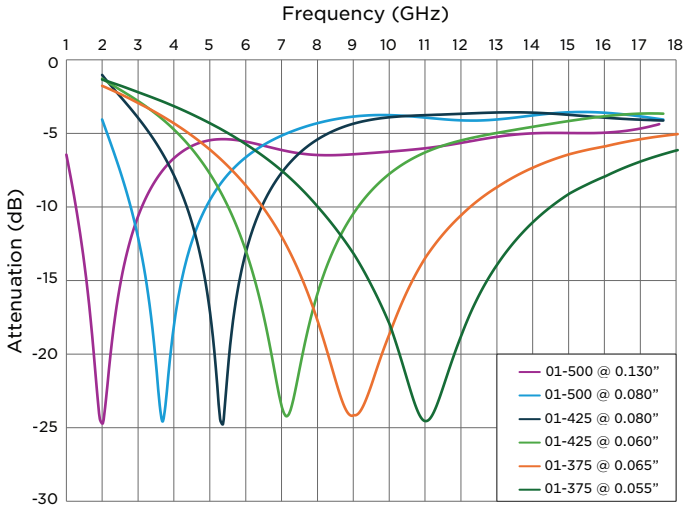
Iron-loaded liquid silicone rubber (LSR)

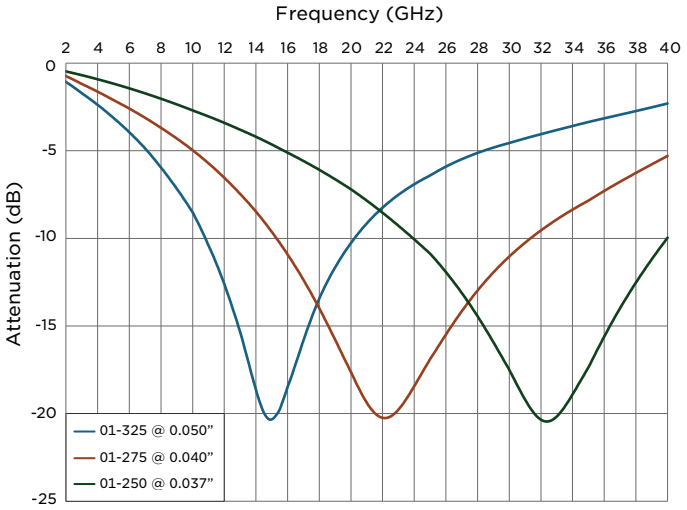
FEATURES & BENEFITS

- Superior cavity resonance reduction
- Two-part, self-leveling formulations
- 10:1 mix ratio (by volume)
- Heat-accelerated cure (45 min @ 85°C)
- Low outgassing per ASTM E595
- Excellent primed adhesion to metals
- Alternative to sheets and die-cut parts

PROPERTIES	01-500	01-425	01-375	01-325	01-275	01-250
Elastomer Type	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone
Thickness Min (in)	0.070	0.050	0.050	0.045	0.038	0.035
Thickness Max (in)	0.165	0.100	0.070	0.055	0.042	0.039
Density (g/cm³)	4.449	3.947	3.627	3.354	3.062	2.919
Frequency Range (GHz)	1.0 - 4.0	4.0 - 8.0	8.0 - 12.0	12.0 - 18.0	18.0 - 27.0	27.0 - 40.0
Frequency Band	S, C Band	C, X Band	X Band	K_u Band	K Band	K_a Band
Operating Temp. (°C)	-55 to 200	-55 to 200	-55 to 200	-55 to 200	-55 to 200	-55 to 200

ELECTRICAL PERFORMANCE





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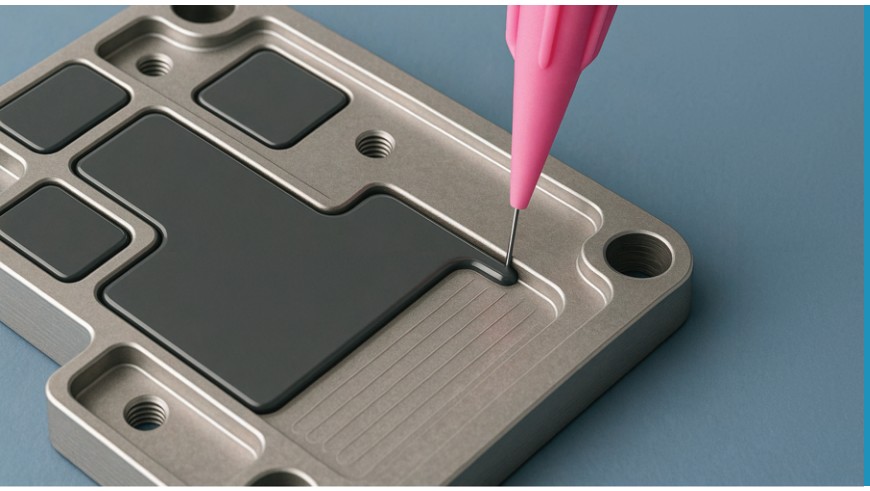

MATERIAL

Iron-loaded liquid silicone rubber (LSR)

FEATURES & BENEFITS

- Superior cavity resonance reduction
- Two-part, self-leveling formulations
- Custom mix ratios and viscosities
- Heat-accelerated cure available
- Low outgassing per ASTM E595
- Excellent primed adhesion to metals
- Alternative to sheets and die-cut parts

MIXING INSTRUCTIONS

Step 1: Note the mix ratio(s) listed on the individual product datasheet and/or label.

Step 2: Open Part A and mix Part A thoroughly by itself for 3-5 minutes.

Step 3: Weigh and transfer desired amount of Part A to a secondary container.

Step 4: Degas transferred Part A under vacuum (>28 mmHg) for 10 minutes.

NOTE: Significant bubbling may occur during degassing. Ensure the container being degassed is at least 3 times the volume of the material to avoid overflowing.

Step 5: Calculate Part B required based on listed mix ratio(s) from Step 1.

Step 6: Introduce desired amount of Part B to degassed Part A.

Step 7: Mix Parts A and B thoroughly for 5-7 minutes.

Step 8: Degas admixed material under vacuum (>28 mmHg) for 10 minutes.

NOTE: If you are ultimately transferring admixed material to a dispensing cartridge you may transfer admixed material into the cartridge first and perform the final degassing step in the cartridge itself to minimize material transfer loss.

NOTE: Significant bubbling may occur during degassing. Ensure the container being degassed is at least 3 times the volume of the material to avoid overflowing.

POT LIFE

60 to 90 minutes

CURE PROFILES

85°C	45 minutes
100°C	30 minutes
150°C	20 minutes

COMPATIBILITY

Platinum-catalyzed cure systems may be inhibited by contact with sulfur-containing compounds, primary or secondary amines, organotin salts, and certain plasticizers, adhesives, or condensation-cure silicone residues. Wood and wood-based materials can also interfere due to natural tannins, sulfur compounds, or processing additives, and should be avoided or sealed prior to use.