

Conductive Adhesive Mounting Gasket, P/N: 12345G-3M-0.9GC (Item 549vs) for 0.9G and 1.2G Antenna Series

Stainless Steel: DFARS 252-225-7014/316 Passivated; Chem. Film (MIL-C-5541F, Class 1A); Anodizing (MIL-A-8625F, Type II Class II)

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3M 9713

Electrical Conductive Tape

Electrical Properties

Contact Resistance:

		Substrate Tested (Foil/Rigid Plate)			
Aluminum/Aluminum	Aluminum/Stainless Steel	Copper/Stainless Steel	Copper/Copper		
< 2.5 Ω	< 2.0 Ω	< 1.0 Ω	< 0.5 Ω		

Based upon four wire (Kelvin probe) resistance measurements made with crossed pieces of Foil/9713/Rigid plate construction using a 1.0 in x 1.0 in square piece of 9713. Room temperature aged for 1 year. The rigid metal surface was prepared with a Scotch-Brite™ pad to roughen the surface and cleaned with isopropyl alcohol.

Outgassing: (ASTM E-595)
Total Mass Loss (TML): 1.60%
Collected Volatile Condensed Materials (CVCM): 0.03%
Water Vapor Recovered (WVR): 0.36%

Minimum Overlap Length: 1/4 in. (6 mm)
Minimum Overlap Width: 1/8 inch (3 mm)

Adhesion Properties

Adhesion in oz/in (g/cm)

Substrate	15 min at		1 hr at		24 hr at	
	72°F (22°C)	72°F (22°C)	72°F (22°C)	158°F (70°C)	158°F (70°C)	158°F (70°C)
Stainless Steel	> 30 (335)	> 45 (502)	> 50 (558)	> 50 (558)	> 55 (613)	> 55 (613)
Aluminum	> 20 (223)	> 35 (390)	> 40 (446)	> 40 (446)	> 55 (613)	> 55 (613)
Copper	> 20 (223)	> 40 (446)	> 45 (502)	> 40 (446)	> 60 (669)	> 60 (669)

Based upon a 90 degree peel sample, following ASTM D3330 test method. Aluminum foil (2 mil thick) was used as the flexible backing to the tape 9713. The substrates listed are all rigid metal plates. The 158°F (70°C) aged peel samples are indicative of the typical long term adhesion build expected at room temperature.

Operative Temperature Range and Shelf Life

Short Term Exposure (minutes, hours)	Long Term (days, weeks)
250°F (121°C)	158°F (70°C)

Shelf Life of Tape in Roll Form: 24 months from date of manufacture when stored in original cartons at 70°F (21°C) and 50% relative humidity.

P/N: 12345G-3M-0.9GC
for 0.9G and 1.2G
Antenna Series

Material: 3M Conductive Tape, 9713, Thickness=0.003"

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCE	
FINISHES	± 1/64	ANGLES	± 1°
TOLERANCE SYSTEM PER ANSI Y14.5		DESIGN	
REMOVE ALL BURRS		DESIGNER	
INTERNAL EXTERNAL EDGES TO 0.015		APPROVED	S. Huynh
SELECT TO USE TO 0.005		DATE	July-28-09
SOFTEN TOLERANCE PER MIL-STD-883C		SCALE	1/1
DO NOT SCALE DRAWING		SHEET	1 OF 1