

Conductive Adhesive Mounting Gasket, P/N: 12345G-3M-2GC & -1.5GC (Item 549) for 2G, S2, 1.5G, and S1.5 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)

ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . http://www.antcom.com

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3M 9713
Electrical Conductive Tape

Electrical Properties

D 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

C Substrate	Adhesion in oz/in (g/cm)				
	15 min at 72°F (22°C)	1 hr at 72°F (22°C)	24 hr at 72°F (22°C)	1 hr at 158°F (70°C)	24 hr at 158°F (70°C)
Stainless Steel	> 30 (335)	> 45 (502)	> 50 (558)	> 50 (558)	> 55 (613)
Aluminum	> 20 (223)	> 35 (390)	> 40 (446)	> 40 (446)	> 55 (613)
Copper	> 20 (223)	> 40 (446)	> 45 (502)	> 40 (446)	> 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-2GC
for 2G, and S2 Antenna Series

P/N: 12345G-3M-1.5GC
for 1.5G, and S1.5 Antenna Series

1.465 SQ.

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
		RELEASED TO PROD. PER DCN #1	00-12-19	

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Material: 3M Conductive Tape, 9713, Thickness=0.003"	
MATERIAL PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 ± .005 ± .1° ± .1°	ANTCOM CORP. TORRANCE CALIFORNIA
TOLERANCE 5th PER ANSI Y14.5 REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .010 FILE TO .001 TO R .000 SQUARE THREADS PER UNF-2-8879 DIA'S ON A DIAMETER ± .005 MACHINED SURFACES	2G/1.5G Conductive Adhesive Gasket
DO NOT SCALE DRAWING	PART NO: 12345G-3M-2GC/1.5GC SCALE: 1/1 SHEET: 1 OF 1