

**COMPONENT SPECIFICATION
APPROVED SUPPLIERS**

Manufacturer	Address/Telephone	805-608	Manufacturer's Part No.
Tecom Industries, Inc.	9324 Topanga Canyon Boulevard Chatsworth, CA 91311 (888) 341-4010	-001	703780
		-002	703780 w/Kapton Tape Removed & P/N 813-154-001 Gasket Added
		-003	703780 w/Kapton Tape Removed, w/P/N 813-154-001 Gasket Added & P/N 754-765-001 Suppressor Added
		-004	703780 w/Kapton Tape Removed, w/P/N 813-154-001 Gasket Added & P/N 754-765-001 Suppressor Added & Bracket P/N 642-265-002
		-103	703780-002
		-104	703780-002 w/642-265-002 Bracket

1.0 Scope: This specification describes the requirements for a 2.45GHz, 0dB gain folded monopole antenna with custom base, supplied as follows:

Part No.	Description
-001	isolated version antenna, 642-265-001 bracket (Murata plug)
-002	grounded version antenna, 642-265-001 bracket (Murata plug)
-003	gnd version, 642-265-001 bracket w/suppressor (Murata plug)
-004	gnd version, 642-265-002 bracket w/suppressor (Murata plug)
-103	ground version, 642-265-001 bracket (Hirose/Amphenol plug)
-104	ground version, 642-265-002 bracket (Hirose/Amphenol plug)

2.0 Quality Assurance: Intermec Receiving Inspection reserves the right to use AQL sampling techniques when inspecting a lot.

3.0 Packaging: All antennas will be packaged in containers capable of protecting them from damage in common carrier shipping and handling.

4.0 Markings: Each container will be labeled or otherwise marked with the manufacturer's name or trademark, and the catalog designation. Additionally, each -103 & -104 part number assembly will be labeled with a green dot to distinguish it from the other assemblies. Major shipping cartons will be marked with the Intermec part number.

REVISION HISTORY

Rev.	File No.	Description of Change	Date	Approved
A	C3333	Release	6/10/02	J S
B	C3485	Add -002 part, Revise ¶1.0, Insert ¶7.5 thru ¶7.7, ¶8.0 Add adhesive, Add ¶8.3 & ¶8.4	10/07/02	J S
C	C4104	Add -003 part, Revise ¶1.0, Insert ¶7.8 & ¶8.1	1/21/04	J S
D	C4259	Add -103 part, Revise ¶1.0, ¶7.3 - ¶7.5 & ¶7.7, ¶8.1 Add tol & .055 dim, Insert ¶8.2	5/27/04	J S
E	C4401	Change mfr P/N, ¶4.0 Insert "Additionally, each -103 assy ...", ¶8.2 Add green dot ...	9/15/04	J S
F	C4504	Add -004 & -104 parts, Revise ¶1.0, ¶4.0 & ¶6.3, ¶8.2 L was 2.50 & Add parts tab	11/04/04	H R E

[illegible]

5.0 Antenna Specifications:

- 5.1 Nominal Frequency: 2.45 GHz
- 5.2 Frequency Range: 2400 MHz to 2485 MHz
- 5.3 Antenna Gain: 0 dBi nominal
-2 dBi minimum
- 5.4 VSWR: 2.0:1
- 5.5 Power: Not specified
- 5.6 Polarization: Linear
- 5.7 Nominal Impedance: 50 Ohms

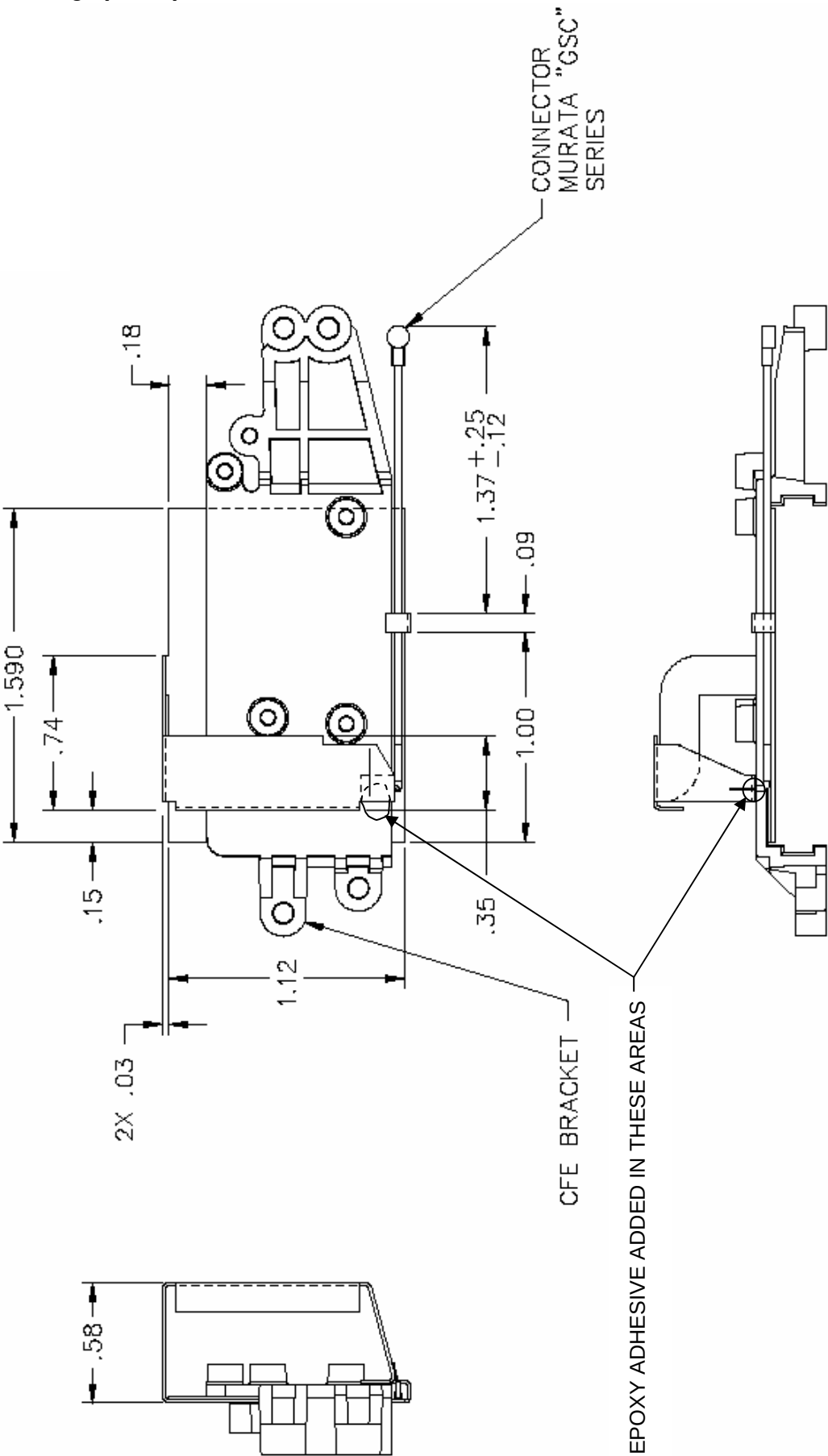
6.0 Mechanical Ratings:

- 6.1 Antenna Weight: Not specified
- 6.2 Ambient Operating Temperature: Not specified
- 6.3 Mounting Bracket: -001, -002, -003 & -103 parts use P/N 642-265-001
-004 & -104 parts use Intermec P/N 642-265-002
- 6.4 Antenna Interconnection Means: Miniature coaxial cable and plug

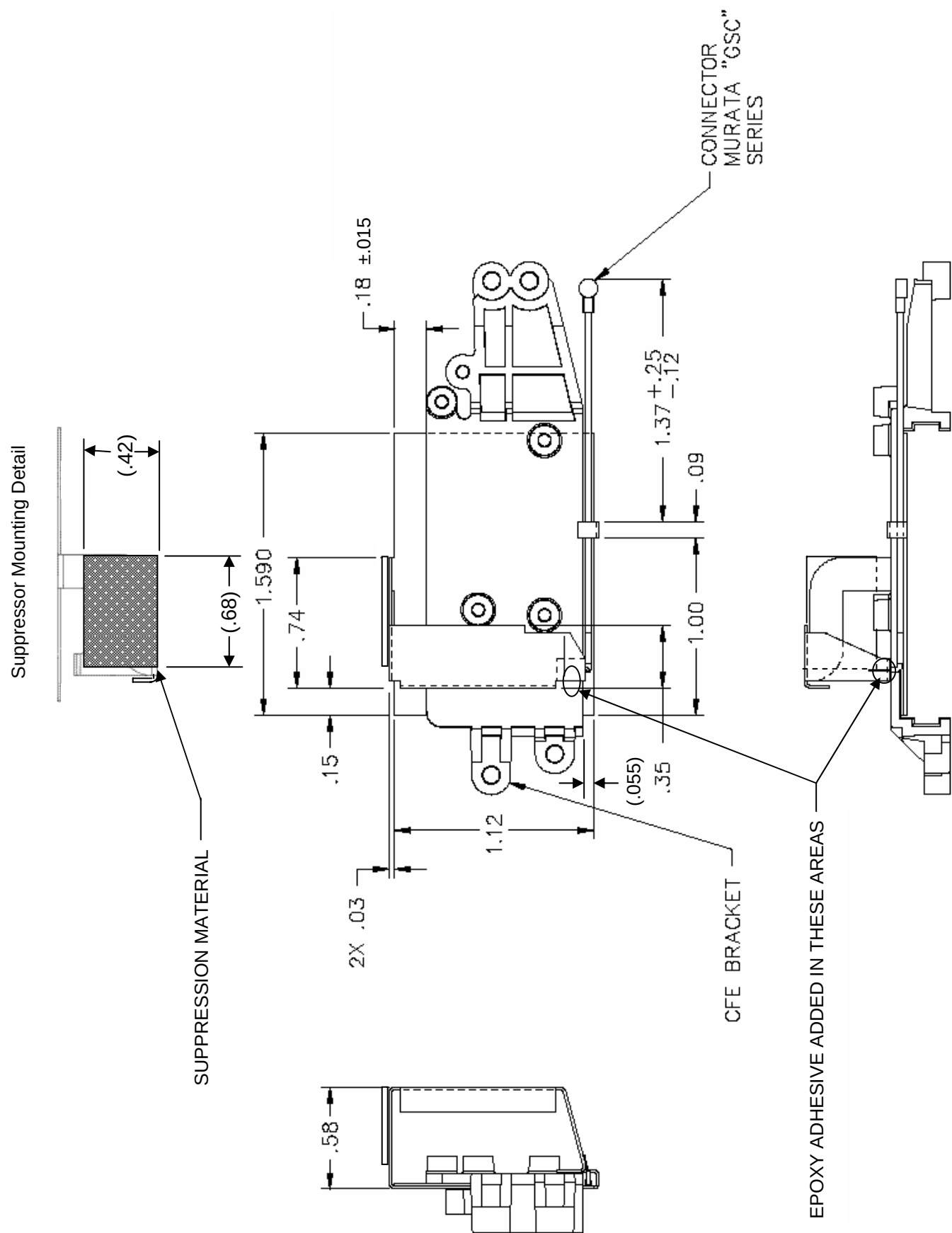
7.0 Materials:

- 7.1 Radiator Element: Stamped and formed brass, unplated
- 7.2 Mounting Bracket: Molded thermoplastic, Intermec blue color
- 7.3 Cable: Murata MXTK92 coaxial cable (-0XX parts only)
Hirose Type 5016 or Amphenol A-113 coaxial cable (-103 & -104 parts)
- 7.4 Coaxial Plug: Murata GSC series coaxial plug (-0XX parts only)
Hirose U.FL-LP-068 or Amphenol A-1PA-113 (-103 & -104 parts)
- 7.5 Adhesive: 3M Scotch-Weld acrylic adhesive, No. DP-820, two-part epoxy adhesive
- 7.6 Tape (-001 part only): Polyimide (a.k.a. Kapton) film with pressure sensitive adhesive on one side
- 7.7 Gasket Material (-002, -003, -103 & -104 parts only): EMI gasket consisting of conductive jacket over foam material, Intermec P/N 813-154-001 (ref. Chomerics P/N 82-122-74039-00156)
- 7.8 Suppression Material (-003 & -004 parts only): Radiation attenuating impregnated sheet stock (ref. P/N 520-114-001) laminated with acrylic foam transfer tape (ref. 3M P/N 4930), Intermec P/N 754-765-001, attached on adhesive side to antenna element per Paragraph 8.1

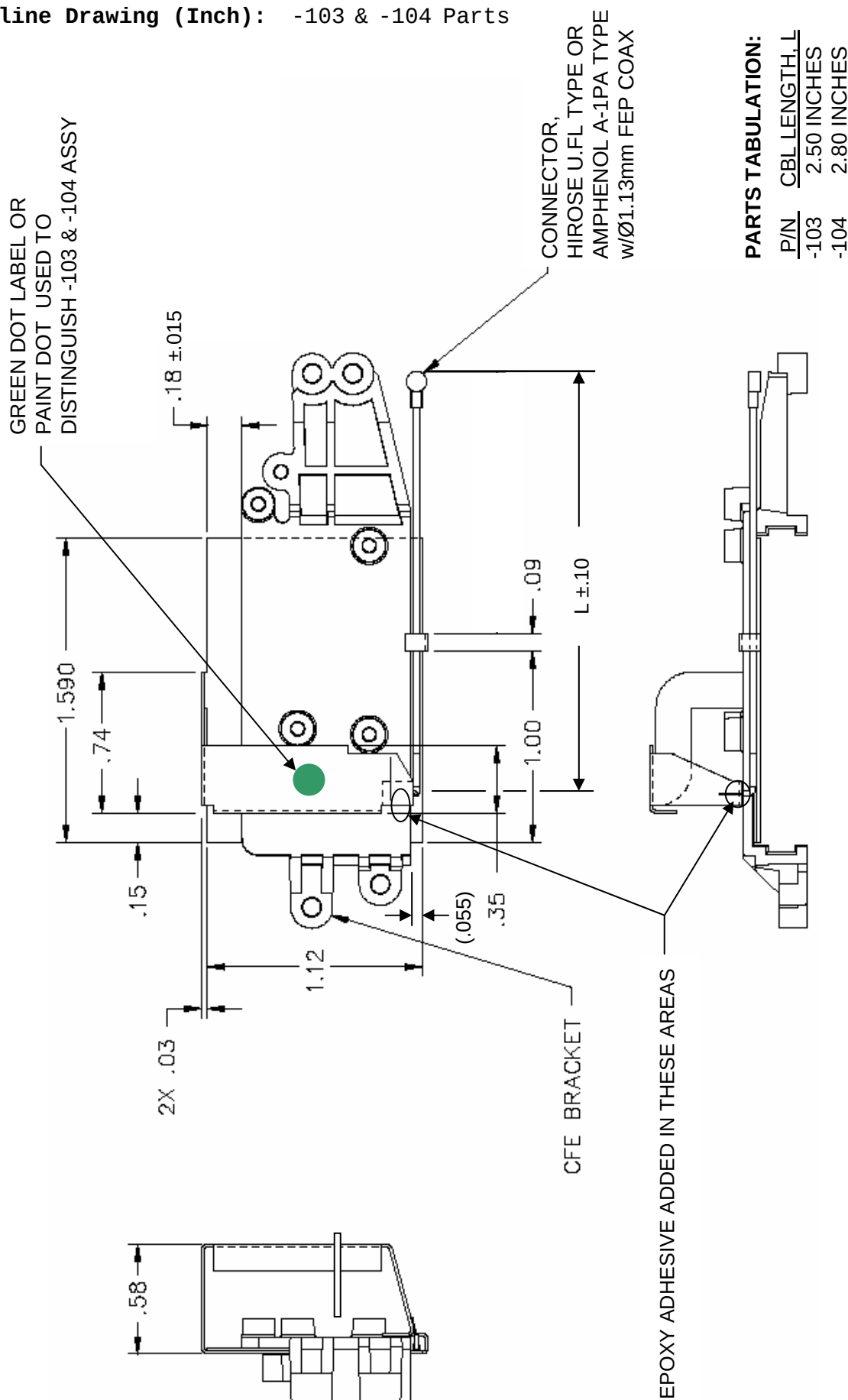
8.0 Outline Drawing (Inch): -001 & -002 Parts



8.1 Outline Drawing (Inch): -003 & -004 Parts



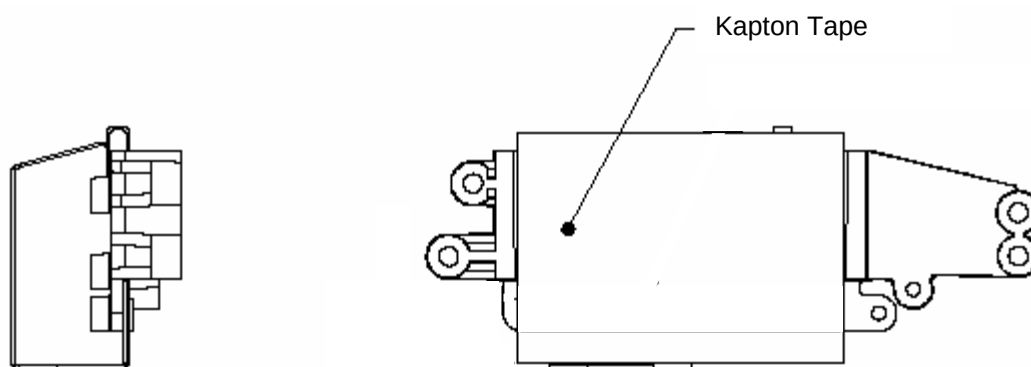
8.2 Outline Drawing (Inch): -103 & -104 Parts



PARTS TABULATION:

P/N	CBL LENGTH, L
-103	2.50 INCHES
-104	2.80 INCHES

8.3 Antenna Mounting Base: Isolated Version, -001 Part



8.4 Mounting Base: Grounded Version, -002, -003, -004, -103 & -104 Parts

