

|                                                        |  |                   |           |                            |          |       |        |
|--------------------------------------------------------|--|-------------------|-----------|----------------------------|----------|-------|--------|
| NOTES:                                                 |  | THIRD ANGLE PROJ. | REVISIONS |                            |          |       |        |
| 1. MATERIALS AND FINISHES:                             |  |                   | REV       | DESCRIPTION                | DATE     | ECO   | APPR   |
| BODY & SHELL - STAINLESS STEEL,PASSIVATED              |  |                   | A         | RELEASE TO MFG.            | 12/15/14 | 50303 | CL/BCG |
| CONTACT - BeCu,GOLD PLATING                            |  |                   | B         | ADDED PART NUMBER TABLE 5B | 6/3/15   | 50413 | JN     |
|                                                        |  |                   |           |                            |          |       |        |
| 4. ENVIRONMENTAL:                                      |  |                   |           |                            |          |       |        |
| A. OPERATING TEMPERATURE: -55°C TO +125°C              |  |                   |           |                            |          |       |        |
| B. THERMAL SHOCK: MIL-STD-202. METHOD 107. CONDITION B |  |                   |           |                            |          |       |        |

1. MATERIALS AND FINISHES:

BODY & SHELL

CONTACT

INSULATOR

GASKET

RETAINER RING

- STAINLESS STEEL,PASSIVATED

- BeCu,GOLD PLATING

- PTFE,NATURAL

- SILICONE RUBBER,RED

- SUS303,NATURAL
2. ELECTRICAL:

A. IMPEDANCE:

B. FREQUENCY RANGE:

C. AVERAGE INPUT POWER:

D. ATTENUATION:

E. VSWR:

50 OHM

DC - 6 GHz

2W MAX AT +25°C

DERATED LINEARLY TO 0.5W MAX AT +125°C

XX dB ±(SEE TABLE 2D)

[FOR ADDITIONAL VALUES, CONSULT FACTORY]

(SEE TABLE 2E)
3. MECHANICAL:

A. MATING ENGAGEMENT:

B. ENGAGE/DISENGAGE FORCE:

C. MATING TORQUE:

D. COUPLING PROOF TORQUE:

E. COUPLING NUT RETENTION:

F. DURABILITY:

MIL-STD-348A,SERIES SMA

2 IN-LBS MAX

8 IN-LBS MAX

15 IN-LBS MIN

60 LBS MIN

500 CYCLES MIN.
4. ENVIRONMENTAL:

A. OPERATING TEMPERATURE:

B. THERMAL SHOCK:

C. SHOCK:

D. VIBRATION:

-55°C TO +125°C

MIL-STD-202, METHOD 107,CONDITION B

(EXCEPT HIGH TEMP +100°C)

MIL-STD-202, METHOD 213,CONDITION I

MIL-STD-202, METHOD 204,CONDITION ID
5. PACKAGING:

A. QUANTITY:

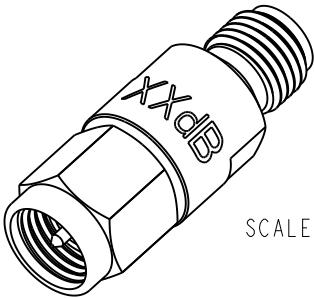
B. BAG TO BE MARKED:

SINGLE PACK

AMPHENOL RF

PART NUMBER (SEE TABLE 5B)

DATE CODE



SCALE 2.000

| dB   | DC-4 GHz | 4-6 GHz |
|------|----------|---------|
| 1-3  | ±0.3     | ±0.5    |
| 4-6  | ±0.4     | ±0.5    |
| 7-10 | ±0.5     | ±0.5    |

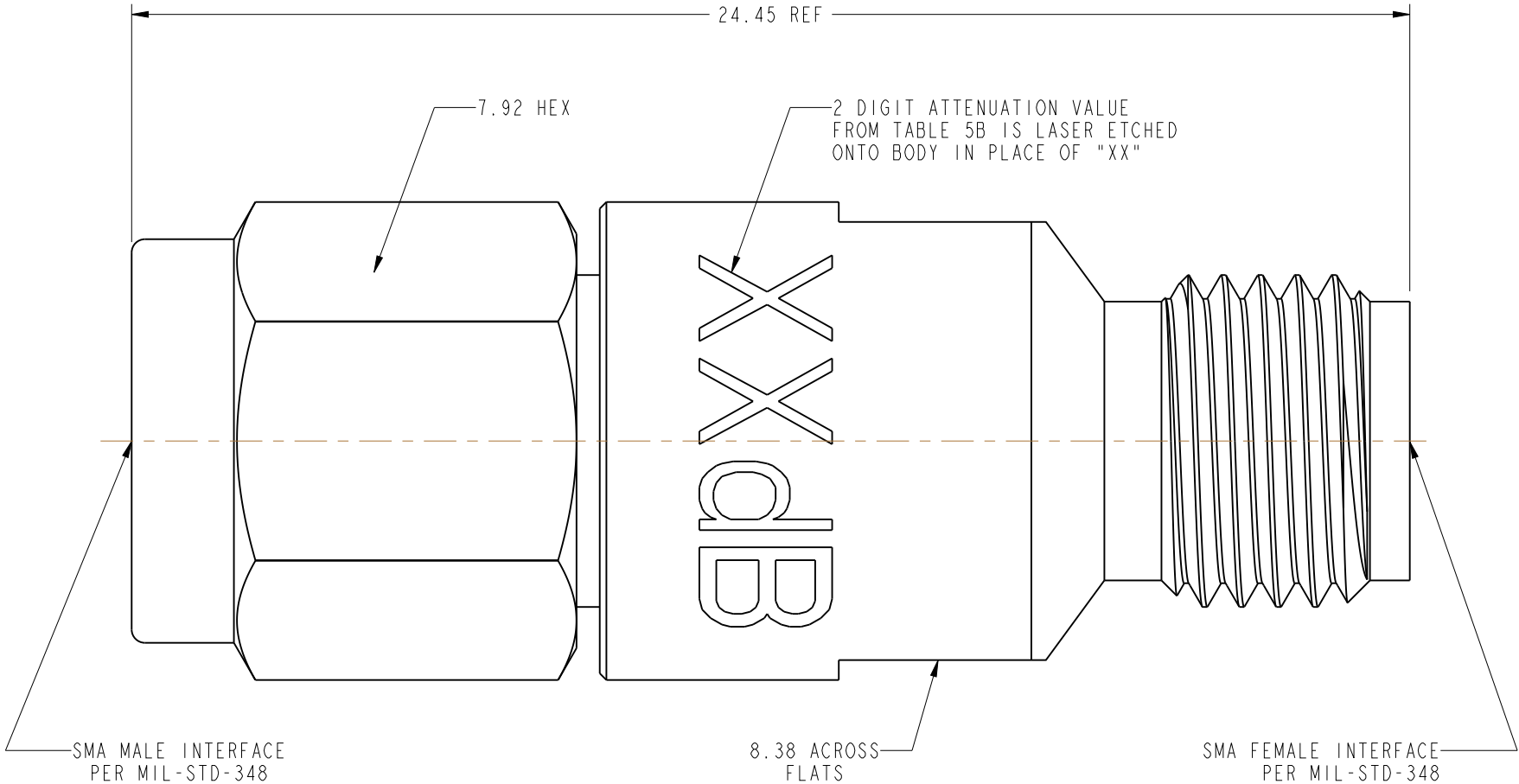
TABLE 2D  
ATTENUATION  
ACCURACY

| dB   | DC-2.5 GHz | 2.5-4 GHz | 4-6 GHz |
|------|------------|-----------|---------|
| 1-3  | 1.15:1     | 1.20:1    | 1.25:1  |
| 4-6  | 1.15:1     | 1.20:1    | 1.25:1  |
| 7-10 | 1.15:1     | 1.25:1    | 1.30:1  |

TABLE 2E  
VSWR MAX.

| PART NUMBER     | ATTENUATION VALUE [dB] |
|-----------------|------------------------|
| ATS-IMIF-01DB2W | 01                     |
| ATS-IMIF-02DB2W | 02                     |
| ATS-IMIF-03DB2W | 03                     |
| ATS-IMIF-04DB2W | 04                     |
| ATS-IMIF-05DB2W | 05                     |
| ATS-IMIF-06DB2W | 06                     |
| ATS-IMIF-07DB2W | 07                     |
| ATS-IMIF-08DB2W | 08                     |
| ATS-IMIF-09DB2W | 09                     |
| ATS-IMIF-10DB2W | 10                     |

TABLE 5B  
PART NUMBER  
IDENTIFICATION



## CUSTOMER OUTLINE DRAWING

ALL OTHER SHEETS ARE FOR INTERNAL USE ONLY

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |             |           |                                          |   |                                       |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|-----------|------------------------------------------|---|---------------------------------------|-------------------------|
| UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN METRIC AND TOLERANCES ARE:<br><0.5mm    0.5 - 6mm    6 - 30mm    30 - 120mm    ANGLES<br>± 0.05mm    ±0.1mm    ±0.2mm    ± 0.3mm    ±1°<br><br>NOTICE - These drawings, specifications, or other data (1) are, and remain the property of Amphenol corp. (2) must be returned upon request; and (3) are confidential and not to be disclosed to any person other than those to whom they are given by Amphenol Corp. the furnishing of these drawings, specifications, or other data by Amphenol Corp., or to any other person to anyone for any purpose is not to be regarded by implication or otherwise in any manner licensing, granting rights to permitting such holder or any other person to manufacture, use or sell any product, process or design, patented or otherwise, that may in any way be related to or disclosed by said drawings, specifications, or other data. | MATERIAL   | DRAWN       | DATE      | TITLE                                    |   | Amphenol RF<br><br>www.amphenolrf.com |                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SEE NOTES  | CLEMENT     | 10-Nov-14 |                                          |   |                                       |                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | ENGINEER    | DATE      | SMA STR PLUG TO JACK<br>FIXED ATTENUATOR |   | DRAWING NO.ATS-IMIF-XXDB2W            |                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | B.GLEISSNER | 10-Nov-14 |                                          |   |                                       |                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | REFERENCE  | APPROVED    | DATE      | SCALE: 8.0:1.0                           |   | SHEET 2 OF 2                          |                         |
| EAR # 6465                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | K. CAPOZZI | 12/11/14    | DWG SIZE  |                                          |   |                                       |                         |
| CONFIGURATION LEVEL: In Work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CAD FILE   | B           |           |                                          | B |                                       |                         |
| FINISH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |             |           |                                          |   |                                       | PART NO.ATS-IMIF-XXDB2W |