

NOTES:

1. MATERIALS AND FINISHES:

- BODY & NUT
- STAINLESS STEEL,PASSIVATED
- CONTACT
- BeCu,GOLD PLATING
- INSULATOR
- PTFE,NATURAL
- GASKET
- SILICONE RUBBER,RED
- RETAINER RING
- SUS303,NATURAL

2. ELECTRICAL:

- A. IMPEDANCE:
- 50 OHM
- B. FREQUENCY RANGE:
- DC - 6 GHz
- C. AVERAGE INPUT POWER:
- 2W MAX AT +25°C
- (DERATED LINEARLY TO 0.5W MAX AT +125°C)
- D. ATTENUATION:
- XX dB ±(SEE TABLE 2D)
- [FOR ADDITIONAL VALUES, CONSULT FACTORY]
- E. VSWR:
- (SEE TABLE 2E)

3. MECHANICAL:

- A. MATING ENGAGEMENT: MIL-STD-348A,SERIES: TYPE N
- B. MATING TORQUE: 6-10 IN-LBS MAX.
- C. COUPLING PROOF TORQUE: 15 IN-LBS MIN.
- D. COUPLING NUT RETENTION: 100 LBS MIN.
- E. DURABILITY: 500 CYCLES MIN.

4. ENVIRONMENTAL:

- A. OPERATING TEMPERATURE: -55°C TO +125°C
- B. THERMAL SHOCK: MIL-STD-202, METHOD 107,CONDITION B
- (EXCEPT HIGH TEMP +100°C)
- C. SHOCK: MIL-STD-202, METHOD 213,CONDITION 1
- D. VIBRATION: MIL-STD-202, METHOD 204,CONDITION B

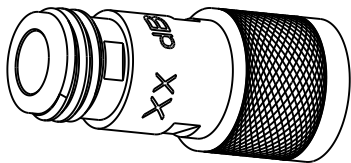
5. PACKAGING:

- A. QUANTITY: SINGLE PACK
- B. BAG TO BE MARKED: AMPHENOL RF
- PART NUMBER (SEE TABLE 5B)
- DATE CODE

THIRD ANGLE PROJ.

REVISIONS

| REV | DESCRIPTION     | DATE    | ECO   | APPR   |
|-----|-----------------|---------|-------|--------|
| A   | RELEASE TO MFG. | 6/30/15 | 50593 | JN/BCG |



SCALE 1.000

| dB    | DC-18 GHz |
|-------|-----------|
| 1-6   | ±0.3      |
| 7-20  | ±0.5      |
| 21-40 | ±1.0      |
| 41-60 | ±1.5      |

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  |

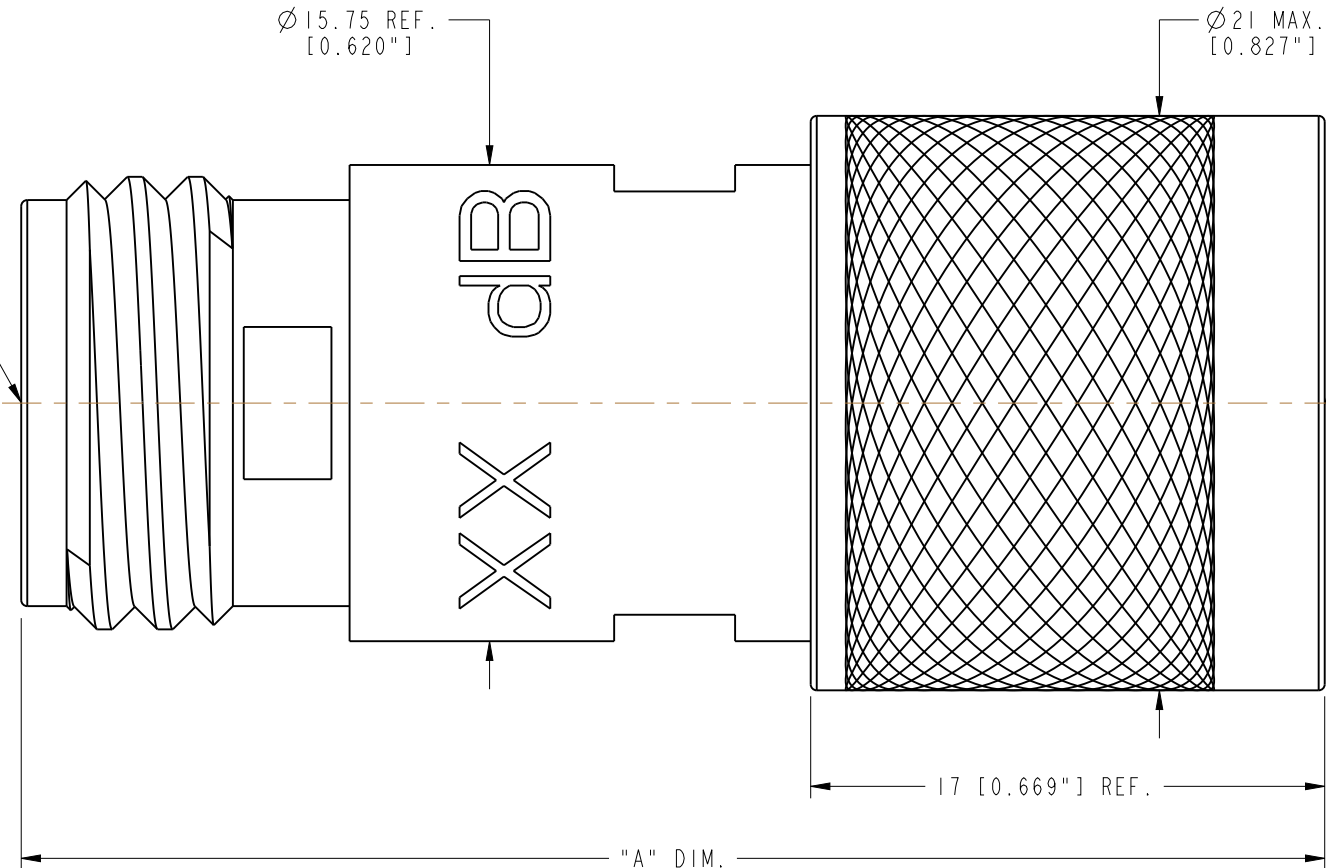
TABLE 2E  
VSWR MAX.

| PART NUMBER     | ATTENUATION VALUE<br>[dB] | "A" DIM.          |
|-----------------|---------------------------|-------------------|
| ATS-1M1F-03DB2W | 3                         | 45.0 [1.77"] REF. |
| ATS-1M1F-06DB2W | 6                         | 45.0 [1.77"] REF. |
| ATS-1M1F-10DB2W | 10                        | 45.0 [1.77"] REF. |
| ATS-1M1F-15DB2W | 15                        | 45.0 [1.77"] REF. |
| ATS-1M1F-20DB2W | 20                        | 45.0 [1.77"] REF. |
| ATS-1M1F-30DB2W | 30                        | 53.1 [2.09"] REF. |

TABLE 5B  
PART NUMBER  
IDENFICATION

INTERFACE PER  
MIL-STD-348  
TYPE N FEMALE

INTERFACE PER  
MIL-STD-348  
TYPE N MALE



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<br>TYPE N, PLUG TO JACK<br>FIXED ATTENUATOR<br>(2 WATT) |  | Amphenol RF<br><br>www.amphenolrf.com |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SEE NOTES | ENGINEER    | DATE      |                                                               |  |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | B.GLEISSNER | 05-Mar-15 |                                                               |  |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | REFERENCE | APPROVED    | DATE      | SCALE: 8.0:1.0                                                |  |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | EAR #6507 | K. CAPOZZI  | 6/30/15   | DWG SIZE                                                      |  | REV                                   |
| CONFIGURATION LEVEL: In Work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CAD FILE  | B           |           | A                                                             |  |                                       |
| FINISH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |             |           |                                                               |  | DRAWING NO.ATS-2M2F-XXDB2W            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |             |           |                                                               |  | ITEM NO.    ATS-2M2F-XXDB2W           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |             |           |                                                               |  | PART NO.    ATS-2M2F-XXDB2W           |