

NOTES:

1. MATERIALS AND FINISHES:

BODY & NUT

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

XX dB ±(SEE TABLE 2D)

(SEE TABLE 2E)

3. MECHANICAL:

A. MATING ENGAGEMENT:

B. MATING TORQUE:

C. COUPLING PROOF TORQUE:

D. COUPLING NUT RETENTION:

E. DURABILITY:

MIL-STD-348A,SERIES: TYPE N

6-10 IN-LBS MAX.

15 IN-LBS MIN.

100 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

MIL-STD-202, METHOD

MIL-STD-202, METHOD

5. PACKAGING:

A. QUANTITY:

B. BAG TO BE MARKED:

SINGLE PACK

AMPHENOL RF

PART NUMBER (SEE TABLE 5B)

DATE CODE

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

TABLE 2D
ATTENUATION
ACCURACY

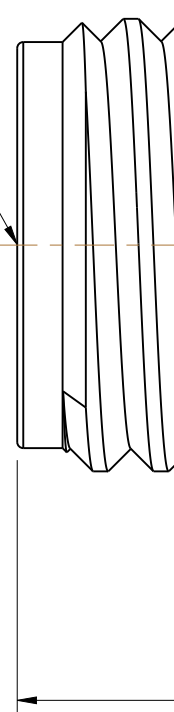
| | | | |
|------|------------|-----------|---------|
| dB | DC-2.5 GHz | 2.5-4 GHz | 4-6 GHz |
| 1-3 | 1.15:1 | 1.20:1 | 1.25:1 |
| 4-6 | 1.15:1 | 1.20:1 | 1.25:1 |
| 7-10 | 1.15:1 | 1.25:1 | 1.30:1 |

TABLE 2E
VSWR MAX.

| PART NUMBER | ATTENUATION VALUE [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
IDENTIFICATION

INTERFACE PER
MIL-STD-348
TYPE N FEMALE



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN METRIC AND TOLERANCES ARE:

<0.5mm

0.5 - 6mm

6 - 30mm

30 - 120mm

ANGLES

± 0.05mm

±0.1mm

±0.2mm

± 0.3mm

±1°

MATERIAL

SEE NOTES

DRAWN
J. NERI

THIRD ANGLE PROJ.

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

07, CONDITION B
+100°C)
13, CONDITION I
04, CONDITION B

SCALE 1.000

Ø 15.75 REF.
[0.620"]

Ø 21 MAX.
[0.827"]

INTERFACE PER
MIL-STD-348
TYPE N MALE

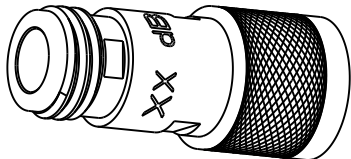
17 [0.669"] REF.

"A" DIM.

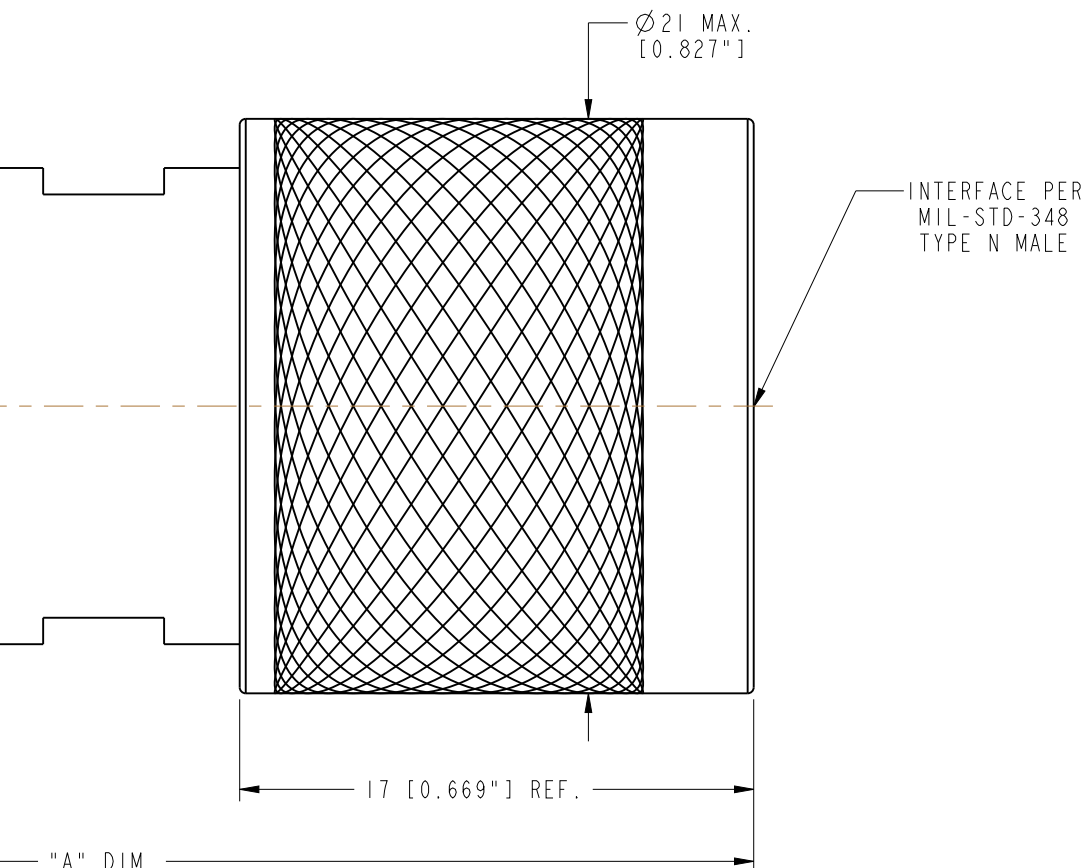
CUSTOMER OUTLINE DRAWING
ALL OTHER SHEETS ARE FOR INTERNAL USE ONLY

| | | |
|-------------------|-------------------------------|-------------|
| DATE 05-Mar-15 | TITLE TYPE N. PLUG TO JACK | Amphenol RF |
|-------------------|-------------------------------|-------------|

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



SCALE 1.000



Ø21 MAX.
[0.827"]

INTERFACE PER
MIL-STD-348
TYPE N MALE

17 [0.669"] REF.

"A" DIM.

CUSTOMER OUTLINE DRAWING

ALL OTHER SHEETS ARE FOR INTERNAL USE ONLY

| | |
|-------------------------------|-------------|
| TITLE TYPE N. PLUG TO JACK | Amphenol RF |
|-------------------------------|-------------|



TABLE 2D
ATTENUATION
ACCURACY

| TABLE 2E | |
|-----------|------|
| VSWR MAX. | |
| 1 | 1.00 |
| 2 | 1.05 |
| 3 | 1.10 |
| 4 | 1.15 |
| 5 | 1.20 |
| 6 | 1.25 |
| 7 | 1.30 |
| 8 | 1.35 |
| 9 | 1.40 |
| 10 | 1.45 |
| 11 | 1.50 |
| 12 | 1.55 |
| 13 | 1.60 |
| 14 | 1.65 |
| 15 | 1.70 |
| 16 | 1.75 |
| 17 | 1.80 |
| 18 | 1.85 |
| 19 | 1.90 |
| 20 | 1.95 |
| 21 | 2.00 |
| 22 | 2.05 |
| 23 | 2.10 |
| 24 | 2.15 |
| 25 | 2.20 |
| 26 | 2.25 |
| 27 | 2.30 |
| 28 | 2.35 |
| 29 | 2.40 |
| 30 | 2.45 |
| 31 | 2.50 |
| 32 | 2.55 |
| 33 | 2.60 |
| 34 | 2.65 |
| 35 | 2.70 |
| 36 | 2.75 |
| 37 | 2.80 |
| 38 | 2.85 |
| 39 | 2.90 |
| 40 | 2.95 |
| 41 | 3.00 |
| 42 | 3.05 |
| 43 | 3.10 |
| 44 | 3.15 |
| 45 | 3.20 |
| 46 | 3.25 |
| 47 | 3.30 |
| 48 | 3.35 |
| 49 | 3.40 |
| 50 | 3.45 |
| 51 | 3.50 |
| 52 | 3.55 |
| 53 | 3.60 |
| 54 | 3.65 |
| 55 | 3.70 |
| 56 | 3.75 |
| 57 | 3.80 |
| 58 | 3.85 |
| 59 | 3.90 |
| 60 | 3.95 |
| 61 | 4.00 |
| 62 | 4.05 |
| 63 | 4.10 |
| 64 | 4.15 |
| 65 | 4.20 |
| 66 | 4.25 |
| 67 | 4.30 |
| 68 | 4.35 |
| 69 | 4.40 |
| 70 | 4.45 |
| 71 | 4.50 |
| 72 | 4.55 |
| 73 | 4.60 |
| 74 | 4.65 |
| 75 | 4.70 |
| 76 | 4.75 |
| 77 | 4.80 |
| 78 | 4.85 |
| 79 | 4.90 |
| 80 | 4.95 |
| 81 | 5.00 |
| 82 | 5.05 |
| 83 | 5.10 |
| 84 | 5.15 |
| 85 | 5.20 |
| 86 | 5.25 |
| 87 | 5.30 |
| 88 | 5.35 |
| 89 | 5.40 |
| 90 | 5.45 |
| 91 | 5.50 |
| 92 | 5.55 |
| 93 | 5.60 |
| 94 | 5.65 |
| 95 | 5.70 |
| 96 | 5.75 |
| 97 | 5.80 |
| 98 | 5.85 |
| 99 | 5.90 |
| 100 | 5.95 |
| 101 | 6.00 |
| 102 | 6.05 |
| 103 | 6.10 |
| 104 | 6.15 |
| 105 | 6.20 |
| 106 | 6.25 |
| 107 | 6.30 |
| 108 | 6.35 |
| 109 | 6.40 |
| 110 | 6.45 |
| 111 | 6.50 |
| 112 | 6.55 |
| 113 | 6.60 |
| 114 | 6.65 |
| 115 | 6.70 |
| 116 | 6.75 |
| 117 | 6.80 |
| 118 | 6.85 |
| 119 | 6.90 |
| 120 | 6.95 |
| 121 | 7.00 |
| 122 | 7.05 |
| 123 | 7.10 |
| 124 | 7.15 |
| 125 | 7.20 |
| 126 | 7.25 |
| 127 | 7.30 |
| 128 | 7.35 |
| 129 | 7.40 |
| 130 | 7.45 |
| 131 | 7.50 |
| 132 | 7.55 |
| 133 | 7.60 |
| 134 | 7.65 |
| 135 | 7.70 |
| 136 | 7.75 |
| 137 | 7.80 |
| 138 | 7.85 |
| 139 | 7.90 |
| 140 | 7.95 |
| 141 | 8.00 |
| 142 | 8.05 |
| 143 | 8.10 |
| 144 | 8.15 |
| 145 | 8.20 |
| 146 | 8.25 |
| 147 | 8.30 |
| 148 | 8.35 |
| 149 | 8.40 |
| 150 | 8.45 |
| 151 | 8.50 |
| 152 | 8.55 |
| 153 | 8.60 |
| 154 | 8.65 |
| 155 | 8.70 |
| 156 | 8.75 |
| 157 | 8.80 |
| 158 | 8.85 |
| 159 | 8.90 |
| 160 | |

TABLE 5B
PART NUMBER
IDENTIFICATION



INTERFACE PER
MIL-STD-348
TYPE N MALE

ALL OTHER SHEETS ARE FOR INTERNAL USE ONLY

| | | | | | | |
|--|---------------------------|------------------------------|------------------------|---|---|-----------------------------|
| UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN METRIC AND TOLERANCES ARE: <0.5mm 0.5 - 6mm 6 - 30mm 30 - 120mm ANGLES ± 0.05mm ±0.1mm ±0.2mm ± 0.3mm ±1° 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 SEE NOTES | DRAWN J. NERI | DATE 05-Mar-15 | TITLE TYPE N, PLUG TO JACK FIXED ATTENUATOR (2 WATT) | Amphenol RF www.amphenolrf.com | |
| | | ENGINEER B.GLEISSNER | DATE 05-Mar-15 | | DRAWING NO. ATS-2M2F-XXDB2W | |
| | | REFERENCE EAR #6507 | APPROVED K. CAPOZZI | DATE 6/30/15 | SCALE: 8.0:1.0 | SHEET 2 OF 2 |
| | | CONFIGURATION LEVEL: In Work | CAD FILE | | DWG SIZE B | REV A |
| | FINISH | | | | | PART NO. ATS-2M2F-XXDB2W |

Mouser Electronics

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[ATS-1M1F-03DB2W](#) [ATS-1M1F-06DB2W](#)