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SPECIFICATIONS

ELECTRICAL

FREQUENCY RANGE \_\_\_\_\_ DC TO 53 GHz

VSWR(MAX)

DC - 18 GHz \_\_\_\_\_ 1.25:1  
18 - 43.5 GHz \_\_\_\_\_ 1.35:1  
43.5 - 53 GHz \_\_\_\_\_ 1.45:1

POWER

AVG \_\_\_\_\_ 1 WATT  
DERATED LINERARLY TO 10% AT +125 °C

PEAK \_\_\_\_\_ 10 WATTS  
100 US PULDE WIDTH AND 0.1% DUTY CYCLE

IMPEDANCE \_\_\_\_\_ 50 OHMS

MECHANICAL:

OPERATING TEMP RANGE \_\_\_\_\_ -55 TO +125°C  
NON OPERATING TEMP RANGE \_\_\_\_\_ -55 TO +150°C

MATERIAL:

OUTER CONDUCTOR \_\_\_\_\_ STAINLESS STEEL IAW ASTM-A484 & ASTM A582, ALLOY 303, COND. A

CENTER CONDUCTOR \_\_\_\_\_ BERYLLIUM COPPER ALLOY C17200 OR C17300 IAW ASTM B196, COND 1/2 H

DIELECTRIC \_\_\_\_\_ PTFE (VIRGIN TEFLON) IAW ASTM-D1710-91a, TYPE 1, GRADE 1, CLASS A

FINISHES:

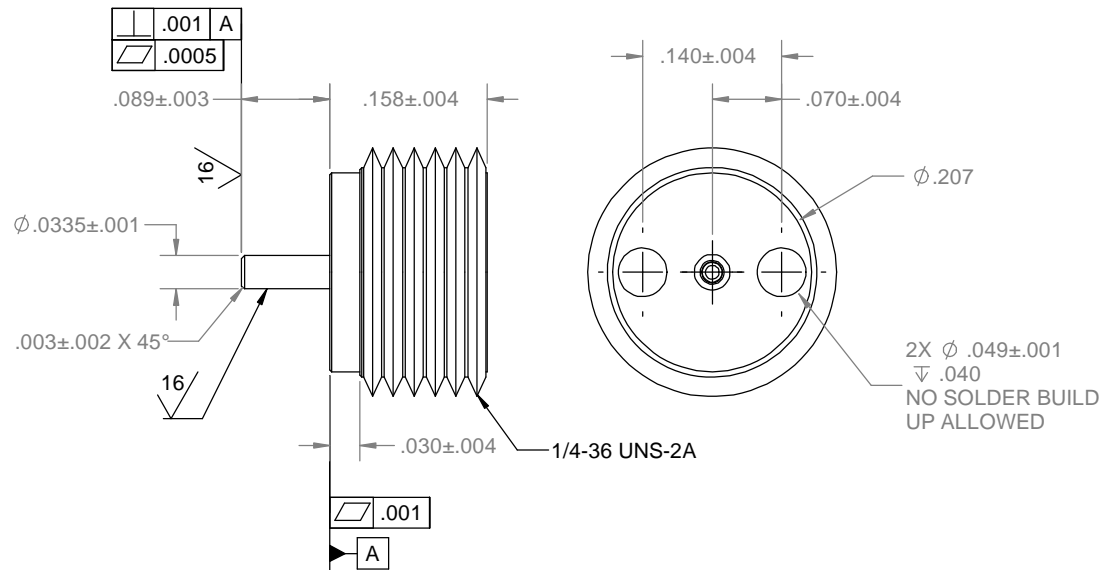
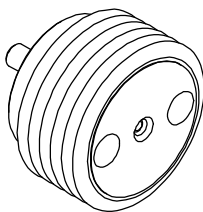
OUTER CONDUCTOR \_\_\_\_\_ NICKEL PLATE PER QQ-N-290, CLASS 2, .000100/.000150 THICK OVER COPPER FLASH PER MIL-C-14550.

CENTER CONDUCTOR \_\_\_\_\_ GOLD PLATE PER ASTM-B488 OR MIL-G-45204, TYPE II, GRADE C, .00010/.000150 THICK OVER NICKEL PLATE PER QQ-N-290, CLASS 2, .000100/.000150 THICK OVER COPPER FLASH PER MIL-C-14550 (COPPER FLASH OPTIONAL)

MARKING

PART IS UNMARKED

TEST DATA REQUIRED WITH EACH SHIPMENT. TAKE A RANDOM SAMPLE EQUAL TO 2% OF THE LOT QUANTITY. INCLUDE PRINTED TEST DATA IN BAG WITH EACH UNIT FROM THE 2% SAMPLE.



REVISIONS				
REV	DESCRIPTION	ECO #	DATE	APPROVED
X4	ADDED PEAK POWER TO SPECS	20-ER015	7/20/20	JIM W
X5	REVISED VSWR	20-ER015	8/11/20	JIM W
X6	REVISED VSWR PER CUSTOMER REQ.	20-ER015	2/11/21	JIM W
X7	ADDED TEST DATA REQUIREMENT	20-NP014	3/29/21	JIM W

QTY.	PART NUMBER	DESCRIPTION	ITEM NO.
X	9501-5300-10	TERMINATION, THREAD-IN, 1.85mm, 53 GHz, 1W	
1	TA-9501-5300-10U	ASSY, TERMINATION, THREAD-IN, 1.85mm, 53 GHz, 1W, UNMARKED	1

DRAWING PRACTICES PER ANSI-Y-14.5 MIL-STD-100 & 1000  
 DIMENSIONS ARE IN INCHES AND APPLY BEFORE / AFTER PROCESSING  
 SURFACE ROUGHNESS  $\mu$ INCHES 63  
 FINISH:  
 SEE NOTES  
 MATERIAL:  
 SEE NOTES  
 NOTE:  
 THIS DRAWING INCORPORATES THIRD ANGLE PROJECTION.  
 INTERPRET IAW ANSI Y14.5-1982

UNLESS OTHERWISE SPECIFIED TOLERANCES IN:  
 DECIMALS INCH [MM]  
 .X" .05" [1.27]  
 .XX" .03" [.76]  
 .XXX" .010" [.25]  
 ANGLES  $\pm 0^{\circ}30'$   
 REMOVE ALL BURRS/SHARP W/ BREAK / R OF .003" TO .0005" UNLESS OTHERWISE NOTED DIAS CONCENTRIC <.003 T.I.R.  
 DO NOT SCALE PRINT

DRAWN DATE  
 MCCORMICK 5/14/20  
 CHECKED DATE  
 MCCORMICK 5/14/20  
 ENG. APPR. DATE  
 T.KUHN 5/14/20

**XMA** Omni Spectra  
 Phone: 603-222-2256 Fax: 603-222-2259  
 7 Perimeter Road, Manchester, NH 03103  
 TITLE

TERMINATION, THREAD-IN, 1.85mm, 53 GHz, 1W

SIZE	CAGE CODE	DRAWING NUMBER	REV
B	3HT76	9501-5300-10	X7

SCALE PLATED AREA SQ. IN SHEET 1 OF 1

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