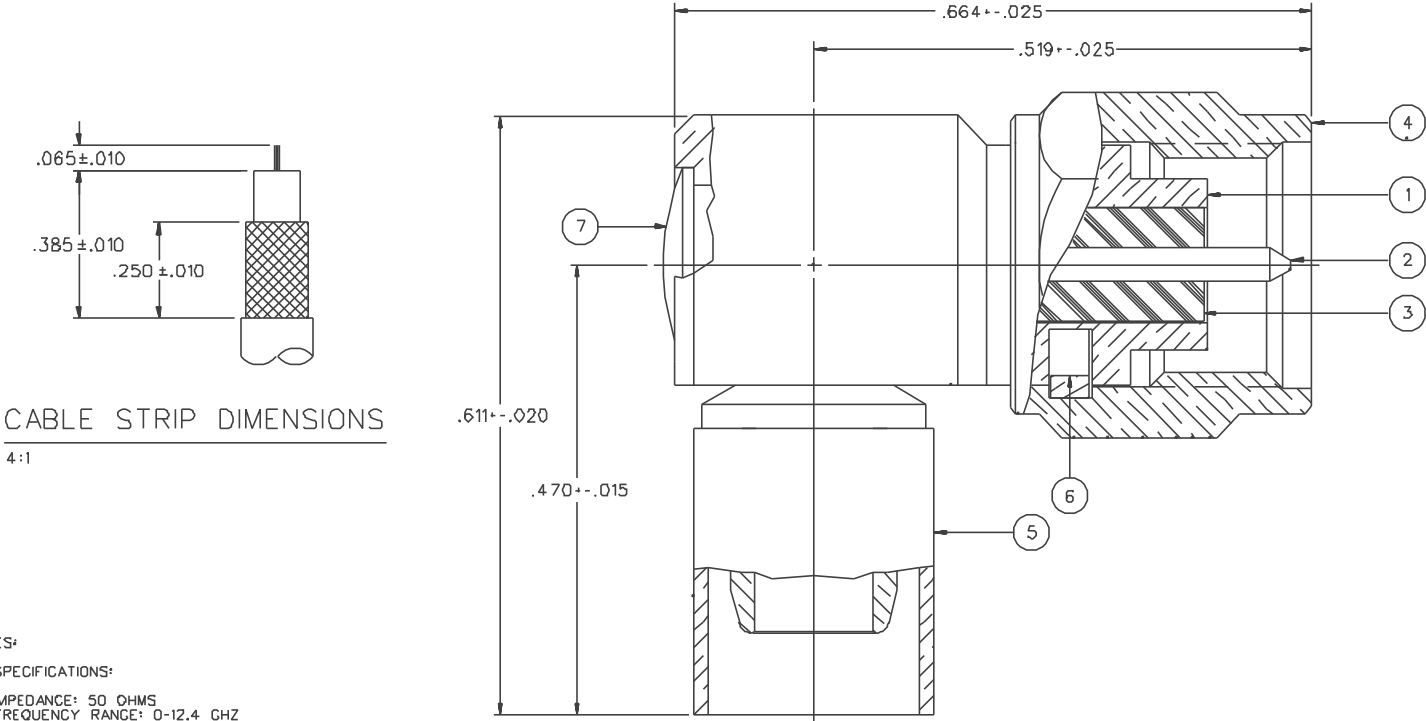


PART NUMBER	ITEM ① BODY	ITEM ② CONTACT	ITEM ③ INSULATOR	ITEM ④ HEX NUT	ITEM ⑤ CRIMP SLEEVE	ITEM ⑥ RETENTION SPRING	ITEM ⑦ END CAP
142-D407-101	BRASS GOLD PL .00001 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	BRASS GOLD PL .00003 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	TEFLON	BRASS GOLD PL .00001 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	COPPER GOLD PL .00001 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	BERYLLIUM COPPER UNPLATED	BRASS GOLD PL .00001 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN
142-D407-104	COPPER SILVER PL .00005 MIN OVER COPPER PL .000075 MIN	COPPER SILVER PL .00005 MIN OVER COPPER PL .000075 MIN	TEFLON	COPPER SILVER PL .00005 MIN OVER COPPER PL .000075 MIN	COPPER SILVER PL .00005 MIN OVER COPPER PL .000075 MIN	BERYLLIUM COPPER UNPLATED	BRASS SILVER PL .00005 MIN OVER COPPER PL .000075 MIN
142-D407-106	BRASS NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN	BRASS GOLD PL .00003 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	TEFLON	BRASS NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN	COPPER NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN	BERYLLIUM COPPER UNPLATED	BRASS NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN



CABLE STRIP DIMENSIONS

4:1

NOTES:

1. SPECIFICATIONS:

IMPEDANCE: 50 OHMS
 FREQUENCY RANGE: 0-12.4 GHZ
 VSWR: 1.15-.02F MAX (F IN GHZ)
 WORKING VOLTAGE: 335 VRMS MAX AT SEA LEVEL
 DIELECTRIC WITHSTANDING VOLTAGE: 1000 VRMS MIN AT SEA LEVEL
 INSULATION RESISTANCE: 5000 MEGOHM MIN
 CONTACT RESISTANCE:
 CENTER CONTACT - INITIAL 4.0 MILLIOHM MAX, AFTER ENVIRONMENTAL 6.0 MILLIOHM MAX
 OUTER CONDUCTOR - INITIAL 2.0 MILLIOHM MAX, AFTER ENVIRONMENTAL NOT APPLICABLE
 BODY TO CABLE - 0.5 MILLIOHM MAX (GOLD PLATED), 5.0 MILLIOHMS MAX (NICKEL PLATED)
 CORONA LEVEL: 250 VOLTS MIN AT 70,000 FEET
 INSERTION LOSS: .15 V/F (F IN GHZ) AT 6 GHZ
 RF LEAKAGE: -60 DB MIN AT 2.5 GHZ
 RF HIGH POTENTIAL WITHSTANDING VOLTAGE: 670 VRMS MIN AT 4 AND 7 MHZ

MECHANICAL:

ENGAGE/DISENGAGE TORQUE: 2 INCH-POUNDS MAX
 MATING TORQUE: 7-10 INCH POUNDS
 COUPLING PROOF TORQUE: 15 INCH-POUNDS MIN
 COUPLING NUT RETENTION: 60 LBS MIN
 CONTACT RETENTION: 6 LBS MIN
 CABLE ACCEPTABILITY: RG 58, RG 141, RG 303
 CABLE HEX CRIMP SIZE: .213
 CABLE RETENTION: 40 LBS MIN AXIAL FORCE
 DURABILITY: 500 CYCLES MIN

ENVIRONMENTAL:

(MEETS OR EXCEEDS THE APPLICABLE PARAGRAPH OF MIL-C-39012)
 THERMAL SHOCK: MIL-STD-202, METHOD 107, CONDITION B, EXCEPT -B5 DEG C HIGH TEMP
 OPERATING TEMPERATURE: -65 DEG C TO 165 DEG C
 CORROSION: MIL-STD-202, METHOD 101, CONDITION B
 SHOCK: MIL-STD-202, METHOD 213, CONDITION I
 VIBRATION: ML-STD-202, METHOD 204, CONDITION D
 MOISTURE RESISTANCE: MIL-STD-202, METHOD 106

DRAWING NO. C - 142-0407-101/110	
0	REVISIONS
ENGINEERING RELEASE	
01	03-08-89 E J R B D4-10-89 ECO 23621
CHANGED: .664 ± .025 WAS .675 ± .010, .519 ± .025 WAS .520 ± .010, .611 ± .020 WAS .626 ± .010, .470 ± .015 WAS .470 ± .010, REVISED SPECS.	
02	11-11-90 R B B H 11-20-90 ECO 24983
ADDED: P/N 142-0407-101	
3	1-5-92 R B B H 1-9-92 ECO 40802
CHANGED: DRAWING WAS "D" SIZE, RF LEAK 2.5 GHZ WAS 2 TO 3 GHZ, RF HIGH POT 4 AND 7 MHZ WAS 5 TO 7.5 MHZ	
4	4-9-92 R B B H 4-20-92 ECO 40915
CHANGED: CABLE STRIP DIMENSION .065 ± .010 WAS .062 ± .010, .385 ± .010 WAS .355 ± .010 AND .250 ± .010 WAS .200 ± .010, UPDATED GRAPHICS	
5	12-3-93 R B B H 12-22-93 ECO 42113
CHANGED: 142-0407-104, COPPER BODY CONTACT AND NUT WERE BRASS	
***** REVISION NUMBER FOLLOWED BY AN ALPHA ***** * CHARACTER INDICATES DRAWING CLARIFICATION * * CATION OR PART NUMBER ADDITION ONLY. *	
5a	2-16-00 R B B H ECO 46426

CUSTOMER DRAWING

THIS DRAWING TO BE INTERPRETED PER ANSI Y 14.5M - 1982

"μSTATION"

COMPANY CONFIDENTIAL

TOLERANCE UNLESS OTHERWISE SPECIFIED		DRAWN BY E J	DATE 8-12-87	299 Johnson Ave. P.O. Box 1732 Waseca, MN 56093-0832	
DECIMALS .XX	mm	CHECKED BY	DATE		
XXX		APPROVED BY TAK	DATE 3-10-89	TITLE PLUG ASSEMBLY, RA CABLED SMA, RG 58	
MATL		APPROVED BY RJB	DATE 3-13-89		
FINISH		RELEASE DATE	4-10-89	CODE NO.	DRAWING NO. C - 142-0407-101/110
				SCALE 10:1	U/N INCH SHEET 2 OF 2