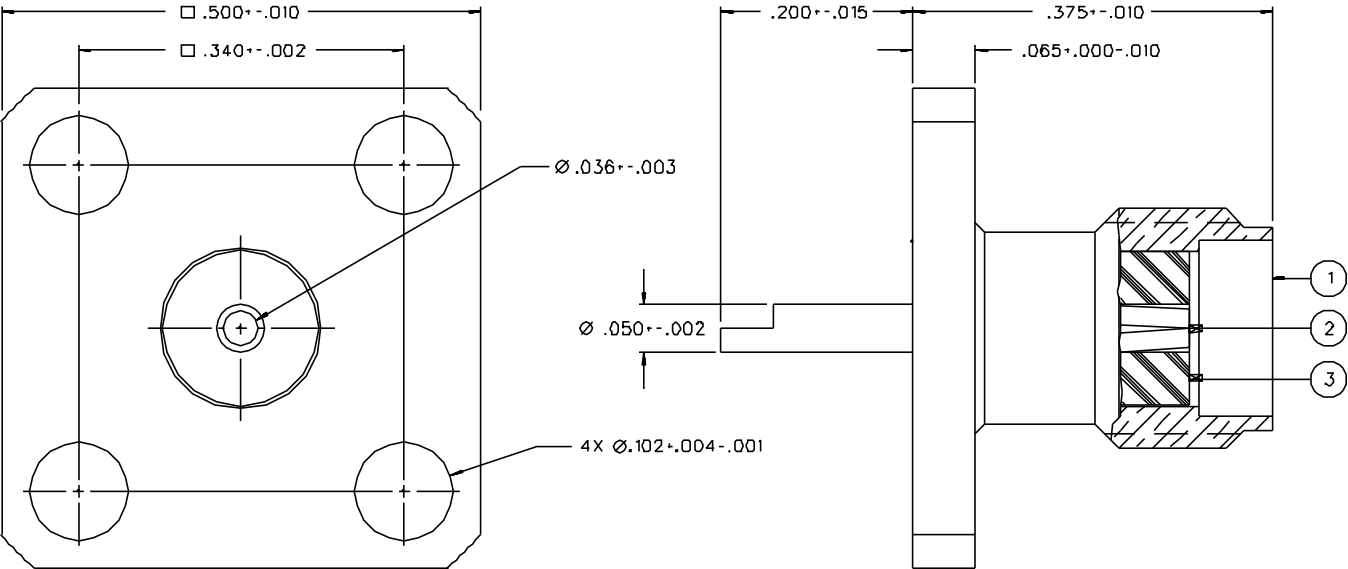


| PART NUMBER  | ITEM ①<br>BODY                                                                        | ITEM ②<br>CONTACT                                                                                | ITEM ③<br>INSULATOR |
|--------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------|
| 142-07D1-631 | BRASS<br>GOLD PL .00001 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER PL .00005 MIN | BERYLLIUM COPPER<br>GOLD PL .00003 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER PL .00005 MIN | TEFLON              |
| 142-07D1-636 | BRASS<br>NICKEL PL .0001 MIN OVER<br>COPPER PL .00005 MIN                             | BERYLLIUM COPPER<br>GOLD PL .00003 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER PL .00005 MIN | TEFLON              |



# NOTES:

## 1. SPECIFICATIONS:

IMPEDANCE: 50 OHMS  
FREQUENCY RANGE: 0-18 GHZ  
VSWR: NOT APPLICABLE  
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 3.0 MILLIOHM MAX, AFTER ENVIRONMENTAL 4.0 MILLIOHM MAX  
OUTER CONDUCTOR - INITIAL 2.0 MILLIOHM MAX AFTER ENVIRONMENTAL NOT APPLICABLE  
BRAID TO BODY - NOT APPLICABLE  
CORONA LEVEL: 250 VOLTS MIN AT 70,000 FEET  
INSERTION LOSS: NOT APPLICABLE  
RF LEAKAGE: NOT APPLICABLE  
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: NOT APPLICABLE  
COUPLING NUT RETENTION: NOT APPLICABLE  
CONTACT RETENTION: 6 LBS MIN AXIAL FORCE  
CABLE ACCEPTABILITY: NOT APPLICABLE  
CABLE HEX CRIMP SIZE: NOT APPLICABLE  
CABLE RETENTION: NOT APPLICABLE  
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 200 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 - 142-0701-631/640                                                                                                                 |           |                                                                                                                   |                      |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |
| 0                                                                                                                                    | REVISIONS |                                                                                                                   |                      |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |
| ENGINEERING RELEASE                                                                                                                  |           |                                                                                                                   |                      |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |
| 01                                                                                                                                   | 06-27-88  | EJ RRF/RJB                                                                                                        | 6-30-88<br>ECO 23459 |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |
| ADDED: MOISTURE RESISTANCE SPEC,<br>HIGH TEMP SPEC TO THERMAL<br>SHOCK                                                               |           |                                                                                                                   |                      |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |
| CHANGED: UPDATED GRAPHICS                                                                                                            |           |                                                                                                                   |                      |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |
| .340+/-0.002 WAS --.D10, DIA .036+/-<br>.003 WAS .025+/-0.003, DIA .02+/-0.004<br>-.001 WAS --.003, .065+/-0.000-.D10<br>WAS --.D10. |           |                                                                                                                   |                      |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |
| 2                                                                                                                                    | 7-16-90   | <table><tr><td>1</td><td>1</td><td>1</td><td>1</td></tr><tr><td>1</td><td>1</td><td>1</td><td>1</td></tr></table> | 1                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | <table><tr><td>1</td><td>1</td><td>1</td><td>1</td></tr><tr><td>1</td><td>1</td><td>1</td><td>1</td></tr></table> | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1                                                                                                                                    | 1         | 1                                                                                                                 | 1                    |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |
| 1                                                                                                                                    | 1         | 1                                                                                                                 | 1                    |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |
| 1                                                                                                                                    | 1         | 1                                                                                                                 | 1                    |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |
| 1                                                                                                                                    | 1         | 1                                                                                                                 | 1                    |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |
| CHANGED: DIA .050+/-0.002 WAS .050+/-<br>.001, RF HIGH POT 4 AND 7 MHZ<br>WAS 5                                                      |           |                                                                                                                   |                      |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |
| 3                                                                                                                                    | 3-10-92   | R H                                                                                                               | 3-14-92<br>ECO 40876 |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |
| CHANGED: UPDATED GRAPHICS                                                                                                            |           |                                                                                                                   |                      |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |
| *****                                                                                                                                |           |                                                                                                                   |                      |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |
| * REVISION NUMBER FOLLOWED BY AN ALPHA *                                                                                             |           |                                                                                                                   |                      |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |
| * CHARACTER INDICATES DRAWING CLASS *                                                                                                |           |                                                                                                                   |                      |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |
| * CATION OR PART NUMBER ADDITION ONLY *                                                                                              |           |                                                                                                                   |                      |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |
| *****                                                                                                                                |           |                                                                                                                   |                      |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |
| 3a                                                                                                                                   | 8-21-96   | R H                                                                                                               | ECN 44137            |   |   |   |   |   |   |   |                                                                                                                   |   |   |   |   |   |   |   |   |

## CUSTOMER DRAWING

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

"μSTATION"

## COMPANY CONFIDENTIAL

|                                      |    |                         |                 |                                                            |                                     |
|--------------------------------------|----|-------------------------|-----------------|------------------------------------------------------------|-------------------------------------|
| TOLERANCE UNLESS OTHERWISE SPECIFIED |    | DRAWN BY<br>EJ          | DATE<br>8-5-87  | 299 Johnson Ave.<br>P.O. Box 1732<br>Waseca, MN 56093-0832 |                                     |
| DECIMALS<br>.XX                      | mm | CHECKED BY<br>RRF       | DATE<br>6-27-88 | TITLE<br>JACK ASSEMBLY,<br>FLANGE MOUNT<br>SMA             |                                     |
| XXX                                  |    | APPROVED BY<br>RJB      | DATE<br>6-27-88 | CODE NO.                                                   | DRAWING NO.<br>C - 142-0701-631/640 |
| MATL                                 |    | RELEASE DATE<br>6-30-88 |                 | SCALE 10:1                                                 | U/N INCH SHEET 2 OF 2               |
| FINISH                               |    |                         |                 |                                                            |                                     |