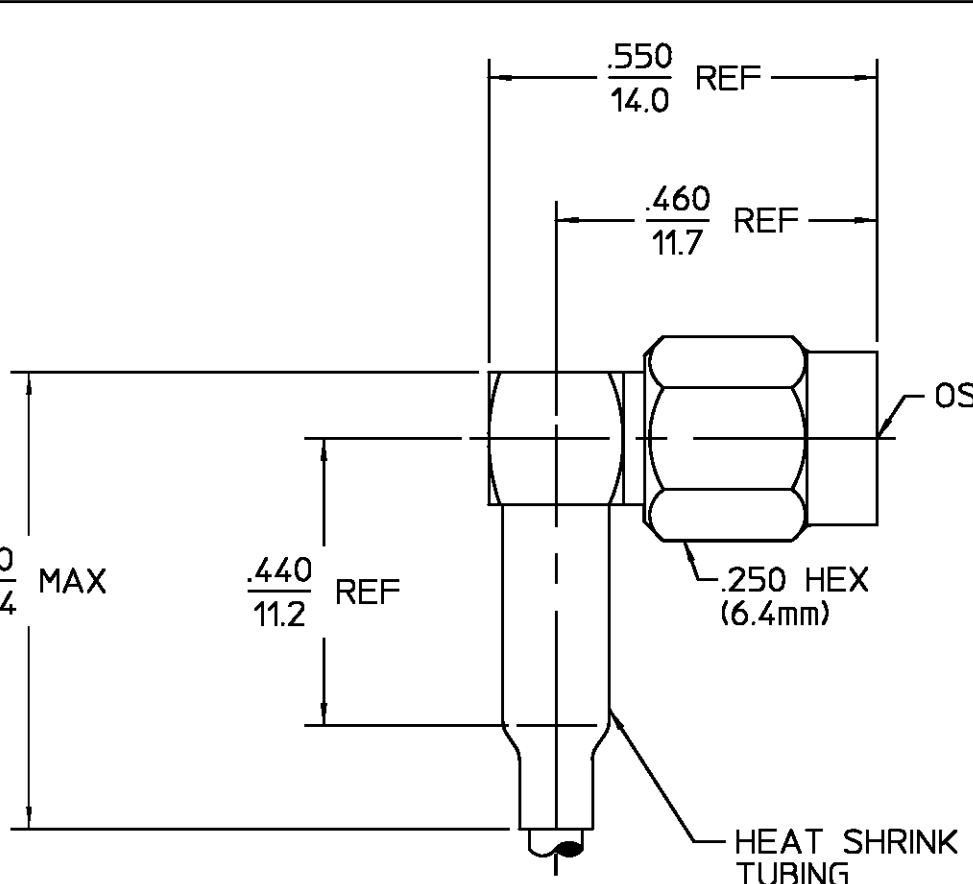


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                                          |                                                       | DESIGNED FOR USE WITH<br>RG174, 179, 187, 188 & 316 |  | REVISIONS                                                                  |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                              |  |                                   |  |                 |  |      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                                                                                                                             |                                                       | CABLE ENTRY DIAMETER<br>MINIMUM                     |  | REV                                                                        | DESCRIPTION |                 | DATE                       | APPROVED                    |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                 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                                                                                                                             |                                                       | HOUSING<br>SLEEVE<br>CONTACT                        |  | .067<br>.110<br>.025                                                       |             | 01 <sub>2</sub> | REDRAWN ON CAD ECN 94-0561 | 1/4/95                      | 1/5/95 |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                 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|
| <table><tr><td colspan="2">ELECTRICAL</td><td colspan="2">MECHANICAL</td><td colspan="2">ENVIRONMENTAL</td></tr><tr><td colspan="2">Nominal Impedance (Ohms) 50</td><td colspan="2">Interface Dimensions MIL-STD-348, Fig. 319.1</td><td colspan="2">Temperature Rating -65°C to +165°C</td></tr><tr><td colspan="2">Frequency Range (GHz) DC to 26.0</td><td colspan="2">Recommended Mating</td><td colspan="2">Vibration MIL-STD-202, Method 204, Condition D</td></tr><tr><td colspan="2">Volt Rating (VRMS MAX) @ Sea Level 250</td><td colspan="2">Torque (In/Lbs) 5</td><td colspan="2">Shock MIL-STD-202, Method 213, Condition I</td></tr><tr><td colspan="2">VSWR 1.10 +.015(f/GHz)</td><td colspan="2">Force to Engage and Disengage (In/Lbs MAX) 2.0</td><td colspan="2">Thermal Shock MIL-STD-202, Method 107, Condition B, Except High Temp +85°C</td></tr><tr><td colspan="2">Insertion Loss (dB MAX) .04√ f(GHz)</td><td colspan="2">Center Contact Captivation</td><td colspan="2">Moisture Resistance MIL-STD-202, Method 106,</td></tr><tr><td colspan="2">RF Leakage (dB MIN) -60 @ 2-3 GHz</td><td colspan="2">Axial (Lbs) 4.0</td><td colspan="2">Corrosion - MIL-STD-202, Method 101, Condition B, 5% salt spray</td></tr><tr><td colspan="2">Corona, 70,000 Ft (VRMS MIN) 190</td><td colspan="2">Radial (In/Oz) 2.0</td><td colspan="2"></td></tr><tr><td colspan="2">Dielectric Withstanding Voltage (VRMS MIN) @ Sea Level 750</td><td colspan="2">Cable Retention</td><td colspan="2"></td></tr><tr><td colspan="2">Contact Resistance (Milliohms MAX)</td><td colspan="2">Axial Force (Lbs) 20</td><td colspan="2"></td></tr><tr><td colspan="2">Center Contact 4.0</td><td colspan="2">Torque (InOz) 16</td><td colspan="2"></td></tr><tr><td colspan="2">Outer Contact 2.0</td><td colspan="2">Weight (Grams) 2.3</td><td colspan="2"></td></tr><tr><td colspan="2">Cable to Housing 0.5</td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2">RF High Potential @ Sea Level (VRMS MIN @ 5 MHz) 500</td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2">I.R.(Megohms MIN) 5000</td><td colspan="2"></td><td colspan="2"></td></tr></table> |                                                       | ELECTRICAL                                          |  | MECHANICAL                                                                 |             | ENVIRONMENTAL   |                            | Nominal Impedance (Ohms) 50 |        | Interface Dimensions MIL-STD-348, Fig. 319.1 |  | Temperature Rating -65°C to +165°C |  | Frequency Range (GHz) DC to 26.0 |  | Recommended Mating |  | Vibration MIL-STD-202, Method 204, Condition D |  | Volt Rating (VRMS MAX) @ Sea Level 250 |  | Torque (In/Lbs) 5 |  | Shock MIL-STD-202, Method 213, Condition I |  | VSWR 1.10 +.015(f/GHz) |  | Force to Engage and Disengage (In/Lbs MAX) 2.0 |  | Thermal Shock MIL-STD-202, Method 107, Condition B, Except High Temp +85°C |  | Insertion Loss (dB MAX) .04√ f(GHz) |  | Center Contact Captivation |  | Moisture Resistance MIL-STD-202, Method 106, |  | RF Leakage (dB MIN) -60 @ 2-3 GHz |  | Axial (Lbs) 4.0 |  | Corrosion - 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AP.</td><td colspan="2">SCALE 4:1 SHEET 1 OF 1</td></tr></table> |  |  |  | COMPONENT |  | MATERIAL |  | FINISH |  | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE ON |  | DRAWN BY RMK DATE 1/13/72 |  | AMP Incorporated |  | FRAC DEC ANGLES |  | CHECKED BY PRB 1/27/72 |  | 140 Fourth Avenue |  | ± 1/64 ±.005 ± 1° |  | APPROD BY BWC 1/27/72 |  | Waltham, MA 02451-7599 |  | These drawings and specifications are the property of Omni Spectra Incorporated and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of item(s) without written permission. |  | USE ASS'Y PROCEDURE |  | TITLE OSSM RIGHT ANGLE CABLE PLUG-SOLDER ATTACHMENT |  |  |  | 408-04798 (10-014) |  | SIZE B CODE IDENT NO. 26805 1037-5002-02 REV 01 <sub>2</sub> |  |  |  | NO. AP. |  | SCALE 4:1 SHEET 1 OF 1 |  |
| ELECTRICAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                       | MECHANICAL                                          |  | ENVIRONMENTAL                                                              |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                 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|
| Nominal Impedance (Ohms) 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                       | Interface Dimensions MIL-STD-348, Fig. 319.1        |  | Temperature Rating -65°C to +165°C                                         |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                 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|
| Frequency Range (GHz) DC to 26.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                       | Recommended Mating                                  |  | Vibration MIL-STD-202, Method 204, Condition D                             |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                 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|
| Volt Rating (VRMS MAX) @ Sea Level 250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                       | Torque (In/Lbs) 5                                   |  | Shock MIL-STD-202, Method 213, Condition I                                 |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                 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|
| VSWR 1.10 +.015(f/GHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                       | Force to Engage and Disengage (In/Lbs MAX) 2.0      |  | Thermal Shock MIL-STD-202, Method 107, Condition B, Except High Temp +85°C |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                 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|
| Insertion Loss (dB MAX) .04√ f(GHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                       | Center Contact Captivation                          |  | Moisture Resistance MIL-STD-202, Method 106,                               |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                 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|
| RF Leakage (dB MIN) -60 @ 2-3 GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                       | Axial (Lbs) 4.0                                     |  | Corrosion - MIL-STD-202, Method 101, Condition B, 5% salt spray            |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                              |  |                                   |  |                 |  |                                                                 |  |                                  |  |                    |  |  |  |                                                            |  |                 |  |  |  |                                    |  |                      |  |  |  |                    |  |                  |  |  |  |                   |  |                    |  |  |  |                      |  |  |  |  |  |                                                      |  |  |  |  |  |                        |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |              |                                                       |                          |             |                                                       |                            |            |                                  |     |                |                                                |                            |                |                                                |     |        |                              |     |         |                   |                            |               |                                                   |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |           |  |          |  |        |  |                                                                  |  |                           |  |                  |  |                 |  |                        |  |                   |  |                   |  |                       |  |                        |  |                                                                                                                                                                                                                                   |  |                     |  |                                                     |  |  |  |                    |  |                                                              |  |  |  |         |  |                        |  |
| Corona, 70,000 Ft (VRMS MIN) 190                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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|
| Dielectric Withstanding Voltage (VRMS MIN) @ Sea Level 750                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Contact Resistance (Milliohms MAX)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| Center Contact 4.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| Outer Contact 2.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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|
| Cable to Housing 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|
| RF High Potential @ Sea Level (VRMS MIN @ 5 MHz) 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|
| I.R.(Megohms MIN) 5000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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|
| COUPLING NUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | STAINLESS STEEL PER ASTM-A484 AND ASTM-A582, TYPE 303 | PASSIVATED PER ASTM-A380                            |  |                                                                            |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                 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|
| HOUSING CAP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | STAINLESS STEEL PER ASTM-A484 AND ASTM-A582, TYPE 303 | GOLD PLATE PER MIL-G-45204                          |  |                                                                            |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                 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|
| DIELECTRIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | TFE FLUOROCARBON PER ASTM-D-1457                      | N/A                                                 |  |                                                                            |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                 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| CENTER CONTACT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BERYLLIUM COPPER PER QQ-C-530, ASTM B196, B197        | GOLD PLATE PER MIL-G-45204                          |  |                                                                            |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                 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| RETAINING RING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BERYLLIUM COPPER PER QQ-C-530, ASTM B196, B197        | N/A                                                 |  |                                                                            |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                 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| GASKET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SILICONE RUBBER PER ZZ-R-765                          | N/A                                                 |  |                                                                            |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                 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| FERRULE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SOFT COPPER ALLOY                                     | GOLD PLATE PER MIL-G-45204                          |  |                                                                            |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                 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| SHRINK TUBING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | HEAT SHRINKABLE POLYOLEFIN COMPOUND MIL-I-23053/4     | N/A                                                 |  |                                                                            |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                 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| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE ON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| FRAC DEC ANGLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                       | CHECKED BY PRB 1/27/72                              |  | 140 Fourth Avenue                                                          |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                 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| These drawings and specifications are the property of Omni Spectra Incorporated and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of item(s) without written permission.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                       | USE ASS'Y PROCEDURE                                 |  | TITLE OSSM RIGHT ANGLE CABLE PLUG-SOLDER ATTACHMENT                        |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                 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                                                                                                                             |                                                       | 408-04798 (10-014)                                  |  | SIZE B CODE IDENT NO. 26805 1037-5002-02 REV 01 <sub>2</sub>               |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                 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AP.                                             |  | SCALE 4:1 SHEET 1 OF 1                                                     |             |                 |                            |                             |        |                                              |  |                                    |  |                                  |  |                    |  |                                                |  |                                        |  |                   |  |                                            |  |                        |  |                                                |  |                                                                            |  |                                     |  |                            |  |                                              |  |                                   |  |                 |  |                                                                 |  |                                  |  |                    |  |  |  |                                                            |  |                 |  |  |  |                                    |  |                      |  |  |  |                    |  |                  |  |  |  |                   |  |                    |  |  |  |                      |  |  |  |  |  |                                                      |  |  |  |  |  |                        |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |              |                                                       |                          |             |                                                       |                            |            |                                  |     |                |                                                |                            |                |                                                |     |        |                              |     |         |                   |                            |               |                                                   |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |           |  |          |  |        |  |                                                                  |  |                           |  |                  |  |                 |  |                        |  |                   |  |                   |  |                       |  |                        |  |                                                                                                                                                                                                                                   |  |                     |  |                                                     |  |  |  |                    |  |                                                              |  |  |  |         |  |                        |  |