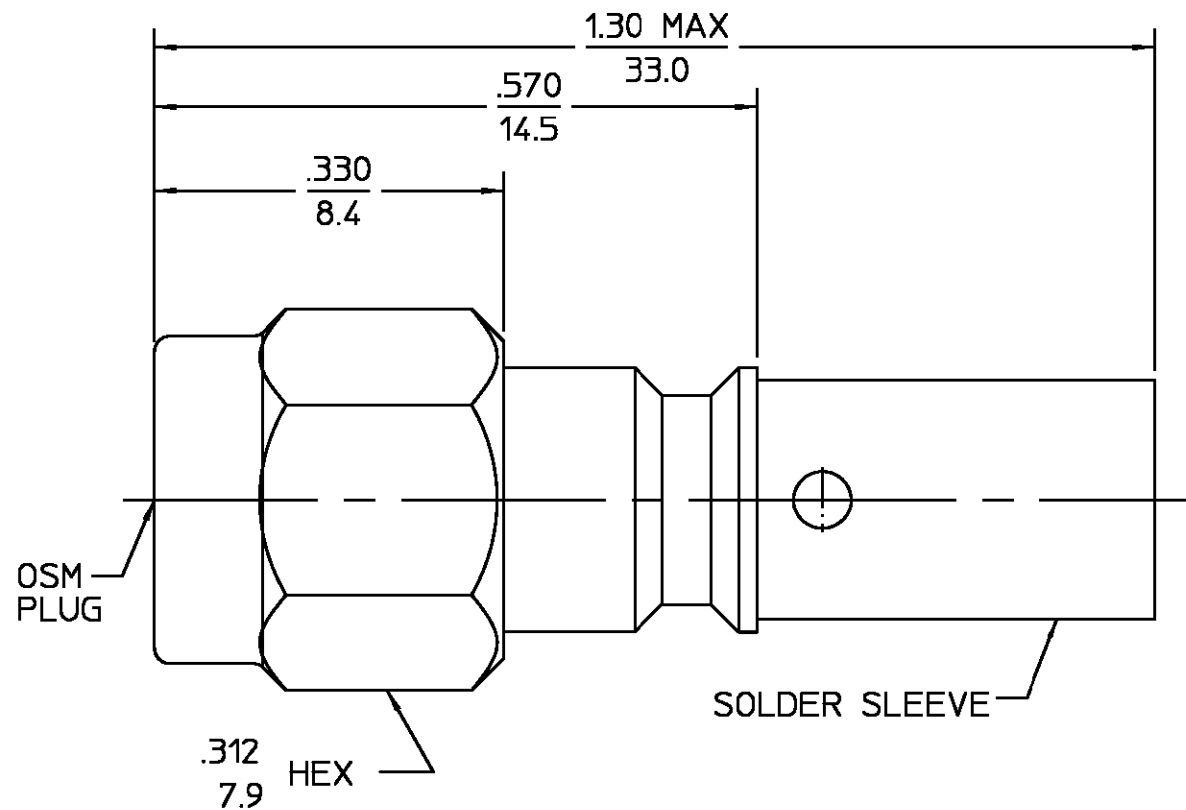


|  |      |
|--|------|
| DESIGNED FOR USE WITH<br>RG142/U OR EQUIVALENT |      |
| CABLE ENTRY DIAMETER<br>MINIMUM                | 010  |
| CONTACT  | .040 |
| HOUSING  | .121 |
| FERRULE  | .216 |

| REVISIONS |             |        |           |
|-----------|-------------|--------|-----------|
| REV       | DESCRIPTION | DATE   | APPROVED  |
| 010       | RELEASED    | 6/9/95 | <i>RA</i> |



| COMPONENT      | MATERIAL   | FINISH                     |
|----------------|--|----------------------------|
| HOUSING        | STAINLESS STEEL PER ASTM-A484 AND ASTM-A582, TYPE 303      | GOLD PLATE PER MIL-G-45204 |
| COUPLING NUT   | STAINLESS STEEL PER ASTM-A484 AND ASTM-A582, TYPE 303      | PASSIVATE PER ASTM-A380    |
| DIELECTRIC     | TFE FLUOROCARBON PER ASTM-D-1457                           | N/A                        |
| CENTER CONTACT | BERYLLIUM COPPER PER ASTM B 196, ALLOY C17300, CONDITION H | GOLD PLATE PER MIL-G-45204 |
| RETAINING RING | BERYLLIUM COPPER PER ASTM B 194, ALLOY C17200, CONDITION H | N/A                        |
| GASKET         | SILICONE RUBBER PER ZZ-R-765                               | N/A                        |
| FERRULE        | COPPER OR BRASS ALLOY ROCKWELL F65 MAXIMUM                 | GOLD PLATE PER MIL-G-45204 |

| ELECTRICAL  | MECHANICAL   | ENVIRONMENTAL   |
|---|--|---|
| Nominal Impedance (Ohms) <u>50</u>                                  | Interface Dimensions MIL-STD-348A, Fig. <u>310.1</u>   | Temperature Rating <u>-65°C to +165°C</u>                       |
| Frequency Range (GHz) DC to <u>12.4</u>                             | Recommended Mating Torque <u>7 - 10 in-lbs</u>         | Vibration MIL-STD-202, Method 204, Condition D.                 |
| Volt Rating (VRMS MAX) @ Sea Level <u>335</u>                       | Mating Characteristics: Insertion (MAX Lbs) <u>N/A</u> | Shock MIL-STD-202, Method 213, Condition I.                     |
| VSWR <u>1.15 + .01 f(GHz)</u>                                       | Withdrawal (MIN Oz) <u>N/A</u>                         | Thermal Shock MIL-STD-202, Method 107, Condition B.             |
| Insertion Loss (dB MAX) <u>.06 √f(GHz)</u>                          | Force to Engage and Disengage (In-Lbs MAX) <u>2.0</u>  | Except High Temp +200°C   |
| RF Leakage (dB MIN) <u>-60 @ 2-3 GHz</u>                            | Center Contact Captivation Axial (Lbs) <u>6.0</u>      | Moisture Resistance MIL-STD-202, Method 106                     |
| Corona, 70,000 Ft (VRMS MIN) <u>250</u>                             | Radial (In-Oz) <u>N/A</u>                              | Corrosion - MIL-STD-202, Method 101, Condition B, 5% salt spray |
| Dielectric Withstanding Voltage (VRMS MIN) @ Sea Level <u>1,000</u> | Cable Retention Axial Force (Lbs MIN) <u>40</u>        |   |
| Contact Resistance (Milliohms MAX) Center Contact <u>3.0</u>        | Torque (In-Oz) <u>N/A</u>                              |   |
| Outer Contact <u>2.0</u>  | Weight (Grams) <u>TBD</u>                              |   |
| Cable to Housing <u>0.5</u>   |  |   |
| RF High Potential @ Sea Level (VRMS MIN @ 5 MHz) <u>670</u>         |  |   |
| LR.(Megohms MIN) <u>5,000</u>                                       |  |   |

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE ON

|        |       |        |
|--------|-------|--------|
| FRAC.  | DEC.  | ANGLES |
| ± 1/64 | ±.005 | ± °    |

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DRAWN BY *RA* DATE 6/9/95  
 CHECKED BY *RA*  
 APPD BY *RA* DATE 6/9/95

USE ASS'Y PROCEDURE  
 NO. AP. 408-04969 (20-511)

AMP Incorporated  
 140 Fourth Avenue  
 Waltham, MA 02451-7599

**AMP**

TITLE OSM STRAIGHT CABLE PLUG SOLDER ATTACHMENT M39012/55-3109 CAT. A

|        |                      |              |         |
|--------|----------------------|--------------|---------|
| SIZE B | CODE IDENT NO. 26805 | 2031-8109-92 | REV 010 |
|--------|----------------------|--------------|---------|

SCALE 10 : 1 SHEET 1 OF 1