

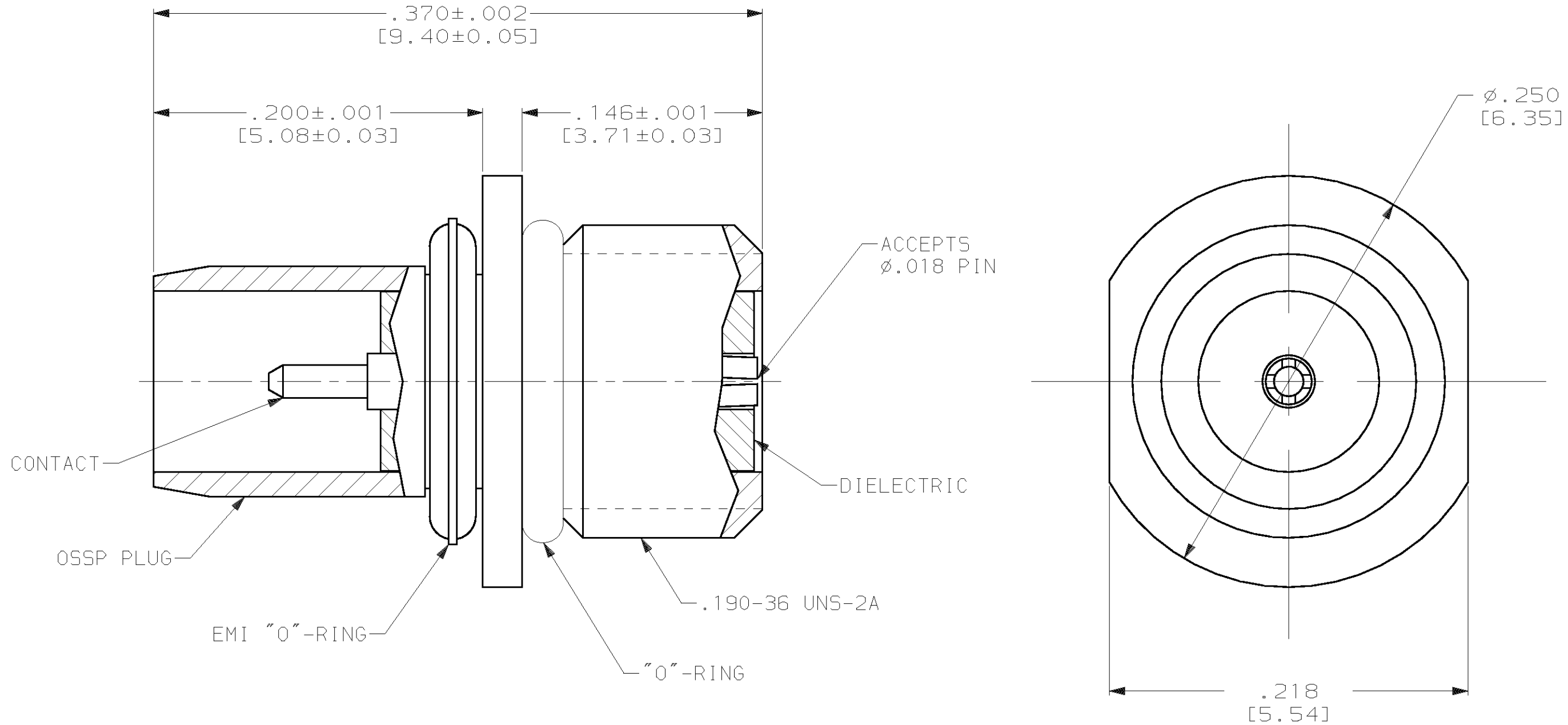
|                                                          |                          |      |
|----------------------------------------------------------|--------------------------|------|
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| COMPONENT                | MATERIAL                                                                      | FINISH                             |
|--------------------------|-------------------------------------------------------------------------------|------------------------------------|
| HOUSING                  | STAINLESS STEEL PER<br>ASTM-A-484 OR ASTM-A-582<br>TYPE 303                   | PASSIVATED<br>PER QQ-P-35<br>-     |
| -<br>DIELECTRIC<br>-     | PTFE FLUORCARBON<br>PER ASTM-D-1457<br>-                                      | -<br>-<br>-                        |
| -<br>CENTER CONTACT<br>- | BERYLLIUM COPPER PER<br>ASTM-B-196 OR ASTM-B-197<br>ALLOY C17300, CONDITION H | GOLD PLATED PER<br>ASTM-B-488<br>- |
| "O"-RING<br>-            | FLUORSILICONE PER<br>MIL-R-25988<br>-                                         | -<br>-<br>-                        |
| EMI "O"-RING<br>-        | CONDUCTIVE SILVER<br>FILLED FLUORSILICONE<br>MIL-G-83528 TYPE F               | -<br>-<br>-                        |

| ENVIRONMENTAL                                       |
|-----------------------------------------------------|
| TEMPERATURE RATING: -65°C TO +105°C                 |
| VIBRATION: MIL-STD-202, METHOD 204, CONDITION D     |
| SHOCK: MIL-STD-202, METHOD 213, CONDITION 1         |
| MOISTURE RESISTANCE: MIL-STD-202, METHOD 106        |
| CORROSION: MIL-STD-202, METHOD 101, CONDITION B.    |
| THERMAL SHOCK: MIL-STD-202, METHOD 107, CONDITION B |
| -                                                   |

| <b>MECHANICAL</b>                                     |                                                      |
|-------------------------------------------------------|------------------------------------------------------|
| INTERFACE DIMENSIONS: MIL-STD-348A FIG. 321-1         |                                                      |
| RECOMMENDED MATING TORQUE: NA                         |                                                      |
| FORCE TO ENGAGE & DISENGAGE (IN-LBS MAX): 3.0 AND 1.5 |                                                      |
| WEIGHT (GRAMS): TBD                                   |                                                      |
| MATING CHARACTERISTICS:                               | INSERTION (MAX LBS): 3.0<br>WITHDRAWAL (MIN OZ): 0.5 |
| CABLE RETENTION:                                      | AXIAL FORCE (LBS): N/A<br>TORQUE (IN-OZ): N/A        |
| CENTER CONTACT CAPTIVATION:                           | AXIAL (LBS): 4.0<br>RADIAL (IN-OZ): N/A              |

| ELECTRICAL                                               |                                            |
|----------------------------------------------------------|--------------------------------------------|
| NORMAL IMPEDANCE (OHMS):                                 | 50±1                                       |
| FREQUENCY RANGE (GHz):                                   | DC TO 28                                   |
| VOLT RATING @ SEA LEVEL (VRMS MAX):                      | 335                                        |
| VSWR:                                                    | 1.07±.01F (GHz)                            |
| INSERTION LOSS: (dB MAX):                                | 05x √F (GHz)                               |
| RF LEAKAGE (dB MIN):                                     | -(90-F (GHz)) (INTERFACE ONLY FULLY MATED) |
| CORONA 70,000 FT (VRMS MIN):                             | 250                                        |
| DIELECTRIC WITHSTANDING VOLTAGE (VRMS MIN) AT SEA LEVEL: | 675                                        |
| I.R. (MEGOHMS MIN):                                      | 5000                                       |
| RF HIGH POTENTIAL AT SEA LEVEL (VRMS MIN @ 5 MHz):       | 675                                        |
| CONTACT RESISTANCE (MILLIOHMS MAX):                      |                                            |
|                                                          | CENTER CONTACT: 6.0                        |
|                                                          | OUTER CONTACT: 3.0                         |
|                                                          | CABLE TO HOUSING: N/A                      |



|     |      |           |     |                          |       |     |      |
|-----|------|-----------|-----|--------------------------|-------|-----|------|
| LOC | DIST | REVISIONS |     |                          |       |     |      |
| DF  | XO   | P         | LTR | DESCRIPTION              | DATE  | DWN | APVD |
|     |      |           | A   | REV PER 063D-0113-02 DBK | 10-02 | CT  | -    |

|                                                                                       |  |                              |  |                                                                         |  |
|---------------------------------------------------------------------------------------|--|------------------------------|--|-------------------------------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWN<br>C.C. THOMAS<br>3-9-01 |  | <b>AMP</b><br>TYCO Electronics Corporation<br>Harrisburg, PA 17105-3608 |  |
| DIMENSIONS:<br>INCHES (mm)                                                            |  | CHK<br>R. GROSS<br>3-9-01    |  |                                                                         |  |
| TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:                                             |  | APVD<br>R. GROSS<br>3-9-01   |  | NAME                                                                    |  |
|  |  | PRODUCT SPEC                 |  | 05SP PLUG RECEPTACLE, RF                                                |  |
|                                                                                       |  | —                            |  |                                                                         |  |
|                                                                                       |  | APPLICATION SPEC             |  |                                                                         |  |
| 0 PLC ±—<br>1 PLC ±—<br>2 PLC ±—<br>3 PLC ±.005 (0.13)<br>4 PLC ±—<br>ANGLES ±—       |  | —                            |  | SIZE                                                                    |  |
| MATERIAL                                                                              |  | FINISH                       |  | CAGE CODE                                                               |  |
| SEE TABLE                                                                             |  | SEE TABLE                    |  | DRAWING NO                                                              |  |
|                                                                                       |  | WEIGHT                       |  | RESTRICTED TO                                                           |  |
|                                                                                       |  | —                            |  | —                                                                       |  |
| CUSTOMER DRAWING                                                                      |  |                              |  | REF: 4757-5038-02                                                       |  |
|                                                                                       |  |                              |  | SCALE 15:1                                                              |  |
|                                                                                       |  |                              |  | SHEET 1 OF 1                                                            |  |
|                                                                                       |  |                              |  | REV A                                                                   |  |

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