



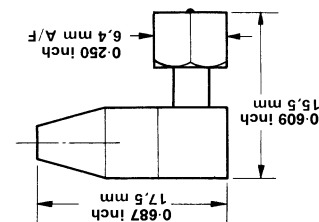
L1403 Series, coaxial, sub-miniature
Slightly smaller in size even than the Pattern 17 connectors described elsewhere in this section, a feature of the L1403 series is the positive locking which is achieved by means of the hexagonal clamping nut in co-operation with a silicone elastomer washer to obviate loosening under vibration.
Two versions of the straight-entry plug are available; the L1403/MFP with a mechanical clamp for connection to the braid of the cable, and L1403/FP where connection is made by soldering it to the body of the plug. PTFE is employed for the insulant providing excellent r.f. and thermal characteristics.
These connectors are compatible with the American Microdot series.

Impedance 50 Ω nominal
V.S.W.R. < 1:1 at 200 and 500 MHz
Breakdown voltage At sea level > 1 kV
At 100,000 ft (30,000 m) 300 V
Insulation resistance $\geq 10 \times 10^9 \Omega$
Contact resistance Creepage distance: 0.02 inch, 0.5 mm
and screen continuity $\leq 5 \text{ m}\Omega$ (mated pair)
 $\leq 4 \text{ pF}$
Capacitance —55 °C to +85 °C
Temperature range Will withstand short term exposure at 125 °C
Humidity H5 (DEF-5011)
Low air density Severity D2 (100,000 ft, DEF-5011)
Acceleration Severity A2 (50 g, DEF-5011)
Shock Severity S1 (50 g, DEF-5011)
Vibration Severity V3 (5–5,000 Hz, DEF-5011)
Panel thickness BS 0.046–0.062 inch 1.2–1.6 mm
CS 0.015–0.150 inch 0.4–3.4 mm
PCS 0.063 inch 1.6 mm

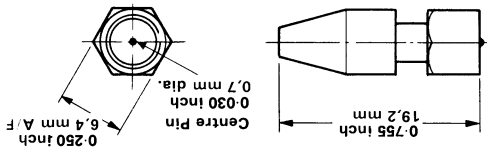
Fixing and locking torque 6 lbf in 0.67 Nm maximum
Cables, dimensions and suitable types Inner conductor 0.023 inch, 0.6 mm
Screen 0.071 inch 1.8 mm
UR 110 (except MFP unless sheath is removed)
Brass pins and bodies. Hidural 5 sockets, all gold-plated (bodies silver-plated to order). PTFE dielectric. Silicone rubber washer and sleeve

Weights (average) FP 1.5 g 0.053 oz
RFP 2.65 g 0.093 oz
MFP 1.65 g 0.058 oz
PCS 1.62 g 0.057 oz
BS 1.32 g 0.047 oz
CS 1.5 g 0.053 oz
FP Microdot 32–21 or 32–23
RFP Microdot 32–15
BS Microdot 33–53
CS Microdot 31–50
PCS Microdot 31–59

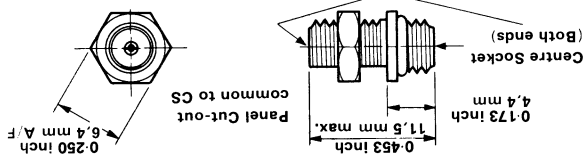
American equivalents



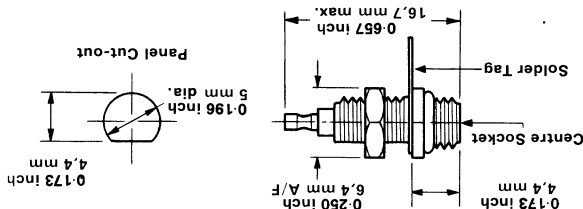
L1403/RFP/Au or Ag Right angle free plug



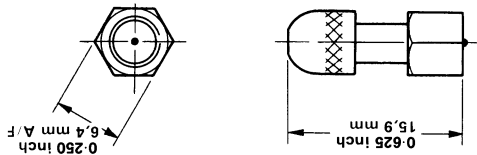
L1403/FP/Au or Ag Free plug



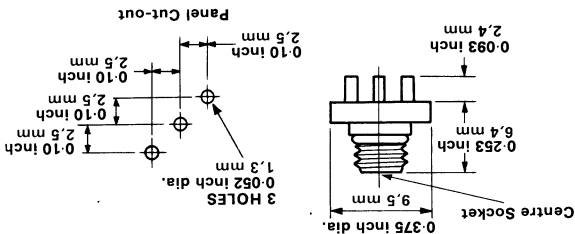
L1403/BS/Au or Ag Bulkhead adapter, plug-to-plug



L1403/CS/Au or Ag Bulkhead socket



L1403/MFP/Au or Ag Free plug with braid clamp



L1403/PCS/Au or Ag Printed circuit socket