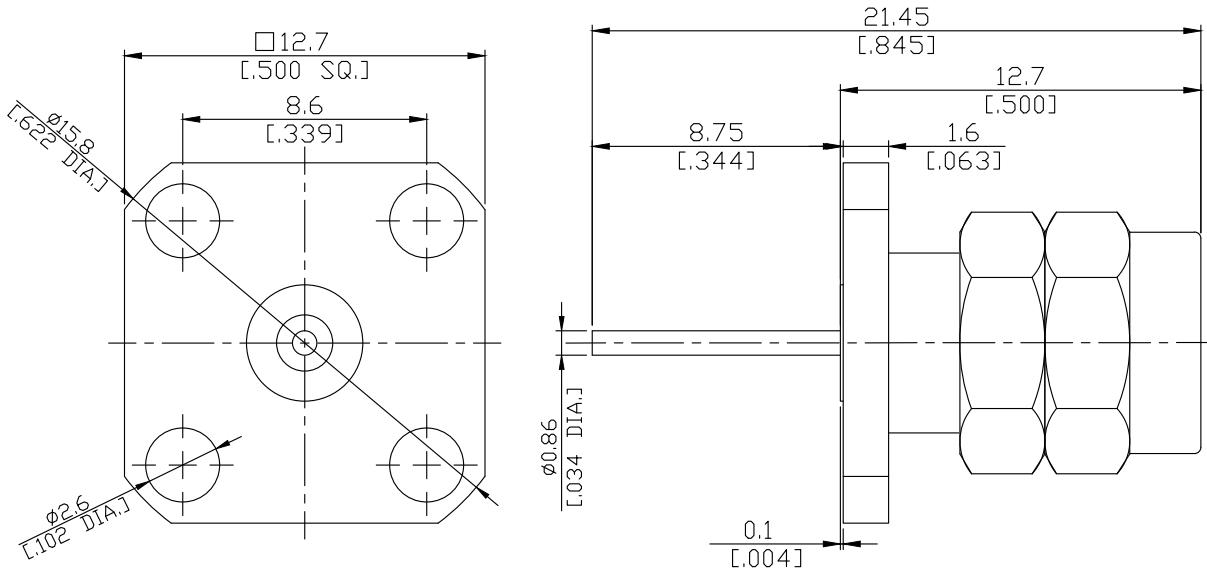


2.4mm plug (male) Connector Solder Attachment 4 Hole Flange Mount
Stub Terminal, 8.6mm (.339 inch) Hole Spacing DC-50GHz VSWR1.15

Q1GFA50-2145A / 9XX



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

According to IEC 61169-40

Mechanically compatible with 1.85mm

Electrical Data

Impedance 50 Ω

Frequency DC to 50 GHz

VSWR (Return Loss) $\leq 1.15 (\geq 23 \text{ dB})$

Insertion Loss $\leq 0.05 \times \sqrt{F} \text{ (GHz) dB}$

Insulation Resistance $\geq 5 \text{ GΩ}$

Test Voltage 500 V rms

Working Voltage (at sea level) 150 V rms

Power Handling (at 20 °C, sea level, VSWR 1.0) $\leq 100 \text{ W @ 1 GHz}$

Material And Plating

Piece Parts	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Body	Stainless Steel	Passivated
Insulator	PEI/PTFE	
Gasket	Silicone Rubber	
Coupling nut	Stainless Steel	Passivated

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Mechanical Data

Coupling mechanisms	Screw-lock
Mating Cycles	≥ 500
Centre Contact	Soldered
Terminal Type	Stub
Captivated Type	Mechanical Captivation
Center contact captivation	≥ 20 N
Coupling test torque	1.65 Nm
Recommended torque	0.80 Nm to 1.10 Nm

Environmental Data

Temperature Range	-55°C to +100°C
Thermal shock	IEC 61169-1, Subclause 9.4.4
Corrosion	IEC 61169-1, Subclause 9.4.6
Vibration	IEC 61169-1, Subclause 9.3.3
Shock	IEC 61169-1, Subclause 9.3.14
Moisture Resistance	IEC 61169-1, Subclause 9.4.3
RoHS	compliant

Packing

Single or 100