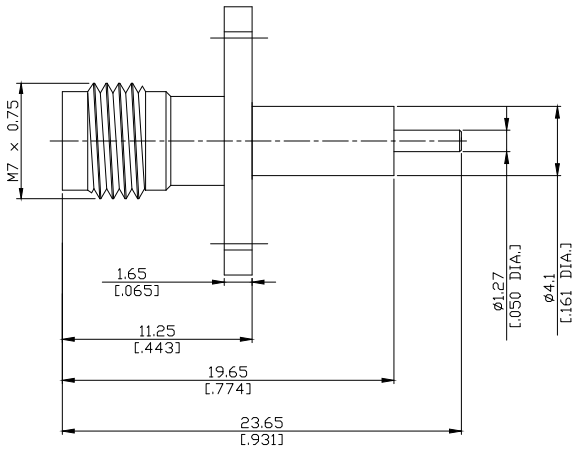
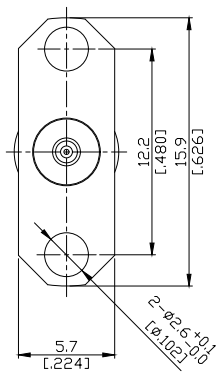
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

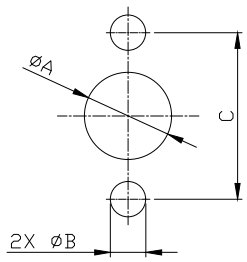
1.85mm jack (female) Connector Solder Attachment 2 Hole Flange Mount Stub Terminal, 12.2mm (.480 inch) Hole Spacing DC-67GHz VSWR1.2

V2GTA50-2365A / 9X





Mounting Dimensions



	mm		inch	
	Max.	Min.	Max.	Min.
A	4.3	4.2	.169	.165
B	2.8	2.7	.110	.106
C	12.25	12.15	.482	.478

All dimensions are in mm [inch]
Tolerances according to DIN ISO 2768-mH

Interface

According to	IEC 61169-40, IEEE Std 287-2007
Mechanically compatible with	1.85mm

Electrical Data

Impedance	50 Ω
Frequency	DC to 67 GHz
VSWR (Return Loss)	≤ 1.2 (≥ 20.8 dB)
Insertion Loss	≤ 0.05 x √F (GHz) dB
Insulation Resistance	≥ 5 GΩ
Center conduct resistance	≥ 4 GΩ
Outter conduct resistance	≥ 2.5 GΩ
Test Voltage	500 V rms
Working Voltage (at sea level)	150 V rms
Power Handling (at 20 °C, sea level, VSWR 1.0)	≤ 100 W @ 1 GHz

Material And Plating

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

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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

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