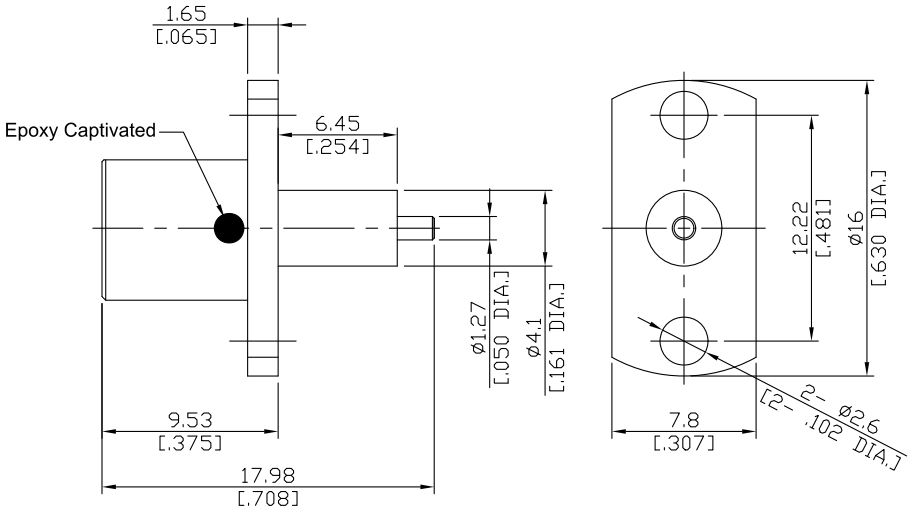
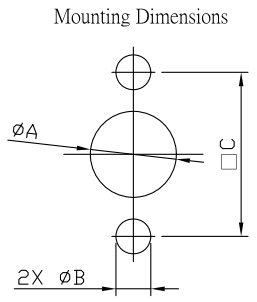
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

BMA Jack (Female) Connector Solder Attachment 2 Hole Flange Mount Stub Terminal, 12.22mm (.481 inch) Hole Spacing Epoxy Captivated DC-22GHz VSWR1.25

BMA2GTA50-1798A-EC / 9X





	mm		inch	
	Max.	Min.	Max.	Min.
A	4.3	4.2	.169	.165
B	2.8	2.7	.110	.106
C	12.27	12.17	.483	.479

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

Interface

According to	MIL-STD-348B/321; IEC 60169-33

Electrical Data

Impedance	50 Ω
Frequency	DC to 22 GHz
VSWR (Return Loss)	≤ 1.25 (≥ 19.08 dB)
Insertion Loss	≤ 0.07 x √F (GHz) dB
Insulation Resistance	≥ 5 x10³ MΩ
Center Contact Resistance	≤ 2 mΩ
Outer Contact Resistance	≤ 2 mΩ
Test Voltage	1000 V rms
Working voltage	400 V rms
RF-leakage	≥ 85 dB up to 1 GHz

-VSWR in application depends decisive on PCB layout or cavity design-

Material And Plating

Piece Parts	Material	Plating
Centre contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Stainless Steel	Passivated
Insulator	PTFE	

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Mechanical Data	
Coupling Mechanisms	Slide-on
Mating Cycles	≥ 1000
Center Contact Captivation	≥ 27 N
Engagement Force	≤ 13.5 N
Disengagement Force	≥ 2 N
Centre Contact	Soldered
Terminal Type	Stub
Captivated Type	Epoxy Captivation
Environmental Data	
Temperature Range	-65°C to +165°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond.D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture Resistance	MIL-STD-202, Meth. 106
RoHS	compliant
Packing	
	Single or 100

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