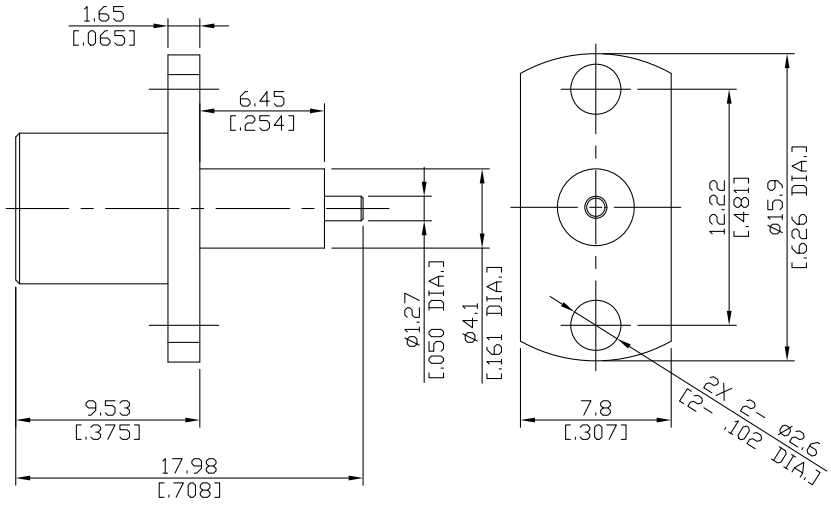
ROSNOL®
RF/Microwave Interconnect

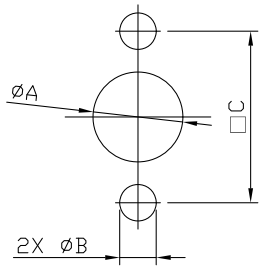
Technical Data Sheet

BMA Jack (Female) Slide-On Panel Connector Solder Attachment
2 Hole Flange Mount Stub Terminal, 12.22mm [.481] Hole Spacing DC-22 GHz VSWR1.25

BMA2GTA50-1798A / 9X



Mounting Dimensions



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

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

Interface

According to	IEC 61169-33; MIL-STD-348B/321

Electrical Data

Impedance	50± 2 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 GΩ
Test voltage (at sea level)	1000 V rms
Working voltage (at sea level)	400 V rms

-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	Mechanical
Environmental Data	
Temperature Range	-65°C to +165°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106
RoHS	compliant
Packing	
	Single or 100

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