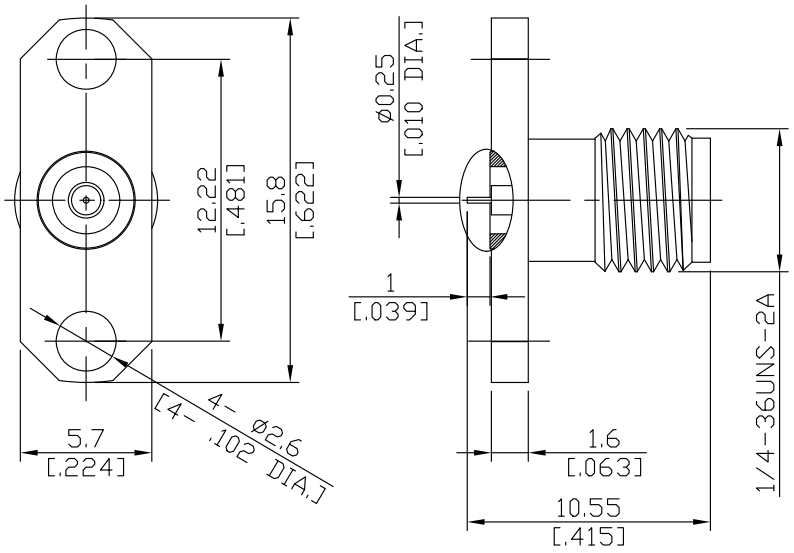
ROSNOL®
RF/Microwave Interconnect

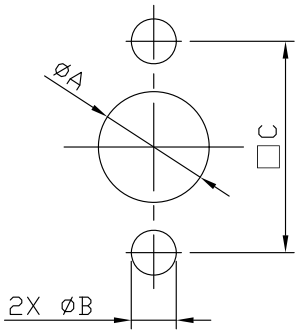
Technical Data Sheet

2.92mm jack (female) Connector Solder Attachment 2 Hole Flange Mount Stub Terminal, 12.22mm (.481 inch) Hole Spacing DC-40GHz VSWR1.25

K2GTA50-1050A / 9X



Mounting Dimension



	mm		inch	
	Max.	Min.	Max.	Min.
A	4.2	4.1	.165	.161
B	2.7	2.6	.106	.102
C	12.25	12.15	.482	.478

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

Interface

According to	IEC 61169-35; IEEE Std 287
Mechanically compatible with	3.50mm and SMA

Electrical Data

Impedance	50 Ω
Frequency	DC to 40 GHz
VSWR (Return Loss)	≤ 1.25 (≥ 19.08 dB)
Insertion Loss	≤ 1.0 x √F (GHz) dB
Insulation Resistance	≥ 5 GΩ
Center contact resistance	≤ 3.0 mΩ
Outer contact resistance	≤ 2.0 mΩ
Test Voltage	750 V rms
Working Voltage (at sea level)	250 V rms
Power Handling	≤ 100 W @ 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	PEI	

Rosnol RF/Microwave Technology Co., Ltd.
www.rosnol.com; info@rosnol.com
Phone: +886-3-463-5095 / Fax: +886-3-463-5952
N-CAGE Code: SFKK0 / ISO9001 Certified

2.92mm jack (female) Connector Solder Attachment 2 Hole Flange Mount Stub Terminal, 12.22mm (.481 inch) Hole Spacing DC-40GHz VSWR1.25

K2GTA50-1050A / 9X

Mechanical Data

Coupling mechanisms	Screw-lock
Mating Cycles	≥ 500
Centre Contact	Soldered
Terminal Type	Stub
Captivated Type	Mechanical
Center contact captivation	≥ 20 N
Coupling test torque	1.70 Nm
Recommended torque	0.80 Nm to 1.10 Nm
Recommended torque fastening screws	0.3 Nm

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

Rosnol RF/Microwave Technology Co., Ltd.
www.rosnol.com; info@rosnol.com
Phone: +886-3-463-5095 / Fax: +886-3-463-5952
N-CAGE Code: SFKK0 / ISO9001 Certified