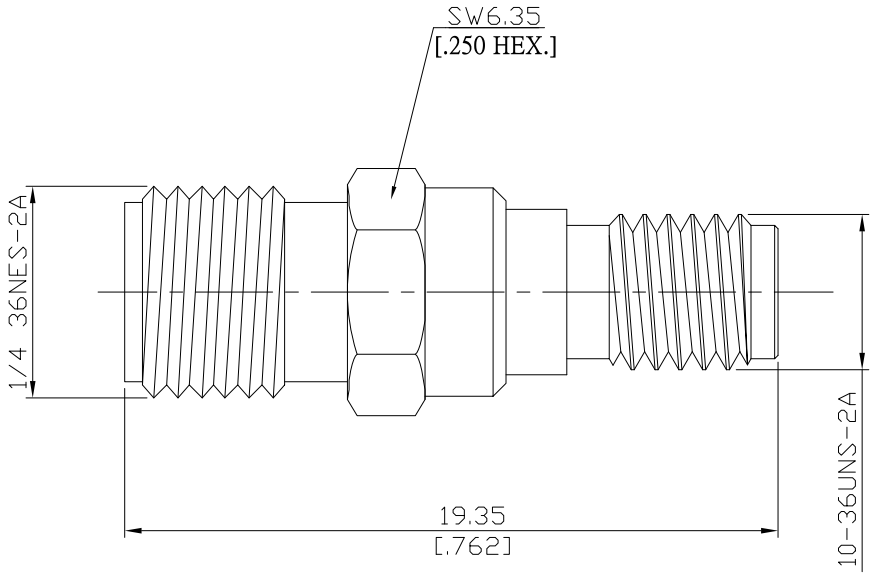
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

Precision SMA jack (female) / SSMA jack (female)
Adapter DC-26.5GHz VSWR1.25

AD-PCA2SA25A / 9X-9X



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

Interface

Precision SMA according to	IEC 60169-15;CECC 22110; MIL-PRF-39012 SMA; MIL-STD-348/310
SSMA according to	IEC 60169-23;MIL-PRF-39012;SSMA interface MIL-STD-348

Electrical Data

Impedance	50 Ω	
Frequency	DC to 24 GHz	
VSWR (Return Loss)	≤ 1.25(≥ 19.08 dB)	
Insertion Loss	≤ 0.05 x √F (GHz) dB	
Insulation Resistance	≥ 5 GΩ	
Center Contact Resistance	≤ 3.0 mΩ, Precision SMA Side	≤ 3.0 mΩ, SSMA Side
Outer Contact Resistance	≤ 2.5 mΩ, Precision SMA Side	≤ 5.0 mΩ, SSMA Side
Test Voltage (at sea level)	1000 V rms , Precision SMA Side	750 V rms , SSMA Side
Working Voltage (at sea level)	480 V rms , Precision SMA Side	250 V rms , SSMA Side

Material And Plating

Piece Parts (Precision SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Stainless steel	Passivated
Insulator	PTFE	
Piece Parts (SSMA)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Stainless steel	Passivated
Insulator	PTFE	

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

Precision SMA jack (female) / SSMA jack (female) Adapter DC-26.5GHz VSWR1.25

AD-PCA2SA25A / 9X-9X

Mechanical Data

	Precision SMA Side	SSMA Side
Coupling mechanisms	Screw-lock	Screw-lock
Mating Cycles	≥ 500	≥ 500
Center Contact Captivation: axial	≥ 27 N	≥ 27 N
radial	≥ 2.8 Ncm	≥ 2.8Ncm
Coupling Test Torque	1.7 Nm max.	1.1 Nm max.
Recommended Torque	0.8 Nm to 1.1 Nm	0.8 Nm to 0.9 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, Conditon 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