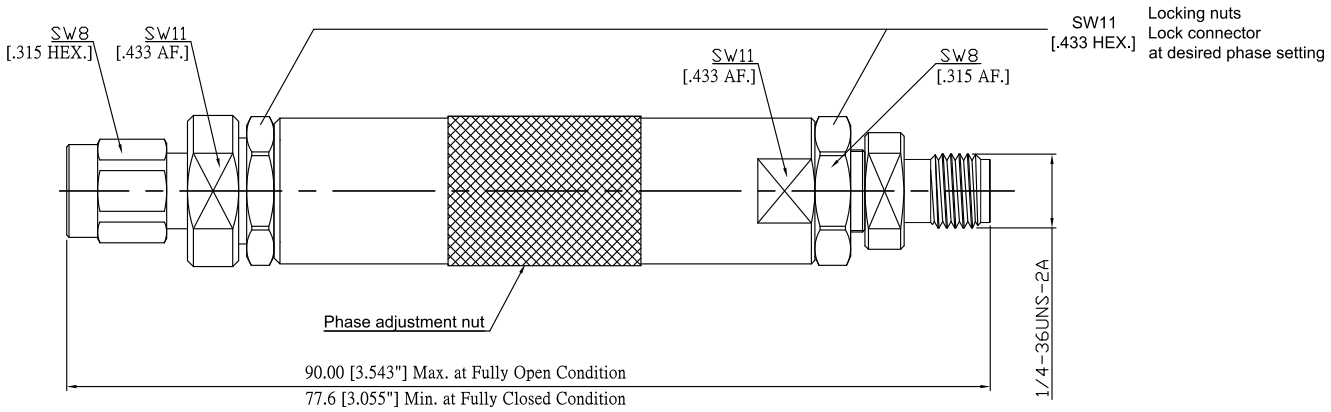
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

SMA Plug (Male) to SMA Jack (Female) Adjustable Phase Shifter DC-18GHz VSWR1.25 with

APS-A1A25A-18G23 / 9XX-9X



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

Interface

According to	IEC 60169-15;CECC 22110; MIL-PRF-39012 SMA; MIL-STD-348/310

Electrical Data

Impedance	50 Ω
Frequency	DC to 18 GHz
VSWR (Return Loss)	≤ 1.25 (≥ 19.08 dB)
Insertion Loss	≤ 0.1 x √F (GHz) dB
Phase Shift Range	23 ° x F (GHz)
Phase Shift Range per Rotation	0.6 ° x F (GHz)

Material And Plating

Piece Parts (SMA)	Material	Plating
Centre Contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Stainless Steel	Passivated
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling Nut	Stainless Steel	Passivated
Lock Nut	Stainless Steel	Passivated
Phase Adjustment Nut	Stainless Steel	Passivated

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

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

SMA Plug (Male) to SMA Jack (Female) Adjustable Phase Shifter DC-18GHz VSWR1.25 with

APS-A1A25A-18G23 / 9XX-9X

Mechanical Data	
Coupling mechanisms	Screw-lock
Mating Cycles	≥ 500
Coupling Test Torque	1.70 Nm max.
Recommended Torque	0.9 Nm
Environmental Data	
Temperature Range	-55°C to +155°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