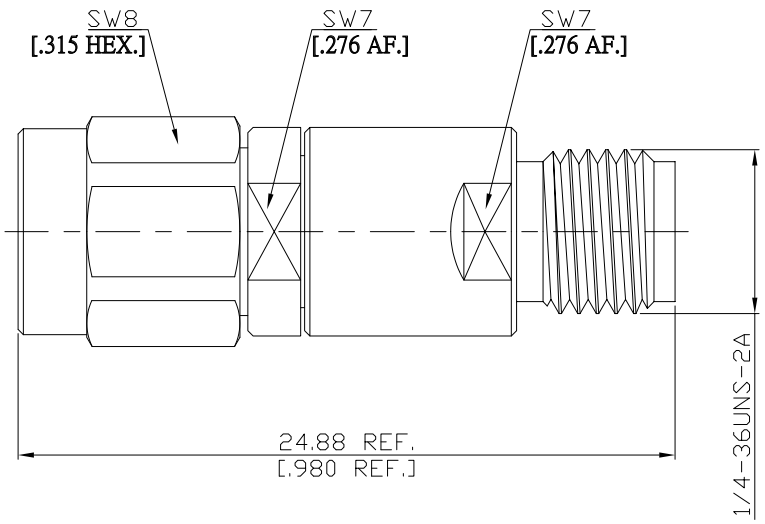
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

DC Block on Inner Conductor Precision SMA Plug (Male) to Precision SMA Jack (Female) 100 MHz-27GHz VSWR 1.20 Working Voltage: 50Vdc Max.

DB-PCA1PCA25A-27G50V / 9XX-9X



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

Interface

Mechanically compatible with	2.92mm, 3.5mm
According to	IEC 60169-15, MIL-STD-348B/310

Electrical Data

Impedance	50 Ω
Frequency	100 MHz to 27 GHz
VSWR (Return Loss)	≤ 1.20 (≥ 23.13 dB)
Insertion Loss	≤ 0.14 x √F (GHz) dB
Insulation Resistance	≥ 5 GΩ
Center Conact Resistance	≤ 3.0 mΩ
Outer Conact Resistance	≤ 2.0 mΩ
Working Voltage	50 Vdc Max.
Block Type	Inner

Material And Plating

Piece Parts (SMA)	Material	Plating
Centre Contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Stainless Steel	Passivated
Insulator	PTFE/PEI	

Piece Parts (SMA)	Material	Plating
Centre Contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Stainless Steel	Passivated
Insulator	PTFE/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

DC Block on Inner Conductor Precision SMA Plug (Male) to Precision SMA Jack (Female)
100 MHz-27GHz VSWR 1.20 Working Voltage: 50Vdc Max.

DB-PCA1PCA25A-27G50V / 9XX-9X

Mechanical Data

Coupling mechanisms	Screw-lock
Mating Cycles	≥ 500
Coupling Nut Retention	≥ 180 N
Center Contact Captivation: axial	≥ 20 N
radial	≥ 1 Ncm
Weight	0.0040 kg
Coupling Test Torque	1.70 Nm max.
Recommended Torque	0.9 Nm

Environmental Data

Temperature Range	-45°C to +85°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

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