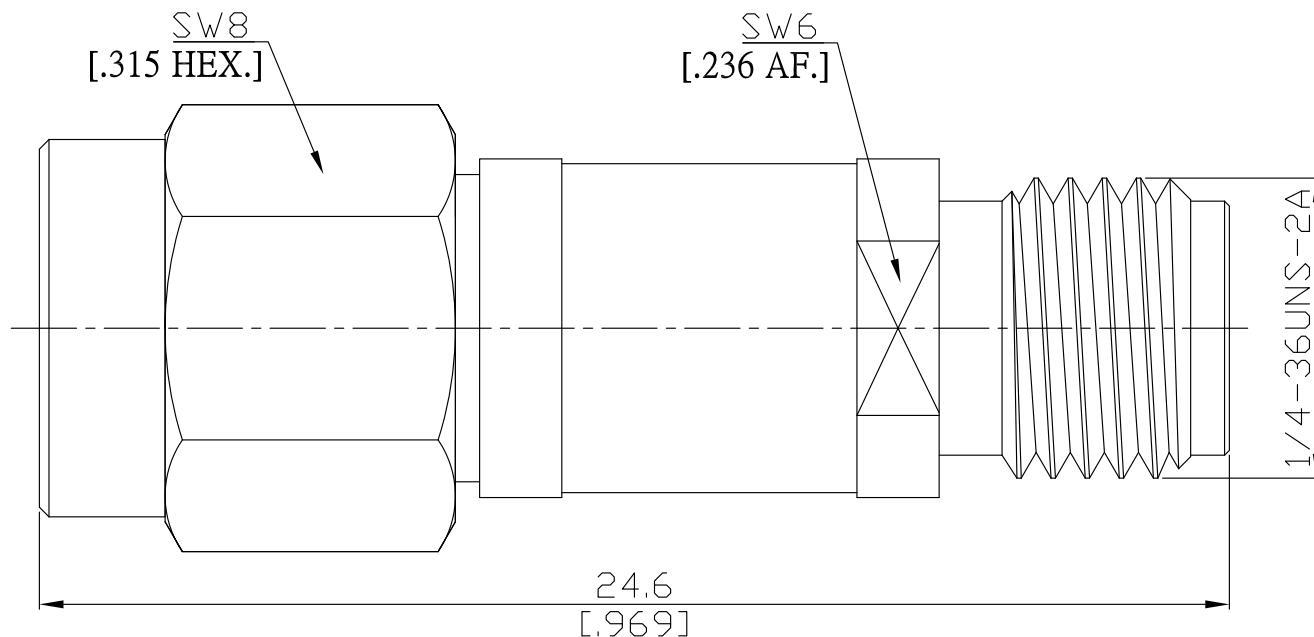


SMA Plug (Male) to SMA Jack (Female)
DC-BLOCK DC-3 GHz

DB-A1A25A-3G100V / H44-H4



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

Mechanically compatible with

SMA

According to

IEC 60169-19, MIL-STD-348B/310

Electrical Data

Impedance

50 Ω

Frequency

DC to 3 GHz

VSWR (Return Loss)

≤ 1.67 (≥ 12 dB)

Insertion Loss

≤ 1 dB

Insulation Resistance

≥ 5 GΩ

Voltage Rating

100 Volts

Electrical Specifications AT 25 °C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Units
Frequency Range		0.01		18	GHz
Insertion Loss	0.01-0.1	-	0.02	0.2	dB
	0.1-1.0	-	0.07	0.3	
	1.0-4.0	-	0.15	0.65	
	4.0-8.0	-	0.38	1.0	
	8.0-18	-	1.00		
Return Loss	0.01-0.1	20	26	-	dB
	0.1-1.0	20	36	-	
	1.0-4.0	20	24	-	
	4.0-8.0	15	18	-	
	8.0-18	-	12	-	

SMA Plug (Male) to SMA Jack (Female) DC-BLOCK DC-3 GHz

DB-A1A25A-3G100V / H44-H4

Material And Plating

Piece Parts (Plug)	Material	Plating
Centre Contact	Phosphor Bronze	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PEI	
Gasket	Silicone Rubber	
Coupling Nut	Brass	Copper-Tin-Zinc Alloy
Piece Parts (Jack)	Material	Plating
Centre Contact	Phosphor Bronze	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PEI	

Mechanical Data

Coupling mechanisms	Screw-lock
Mating Cycles	≥ 500
Coupling Nut Retention	N/A
Center Contact Captivation: axial	≥ 27 N
radial	≥ 3 Ncm
Weight	0.0040 kg
Coupling Test Torque	1.70 Nm max.
Recommended Torque	0.9 Nm

Environmental Data

Temperature Range	-60°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