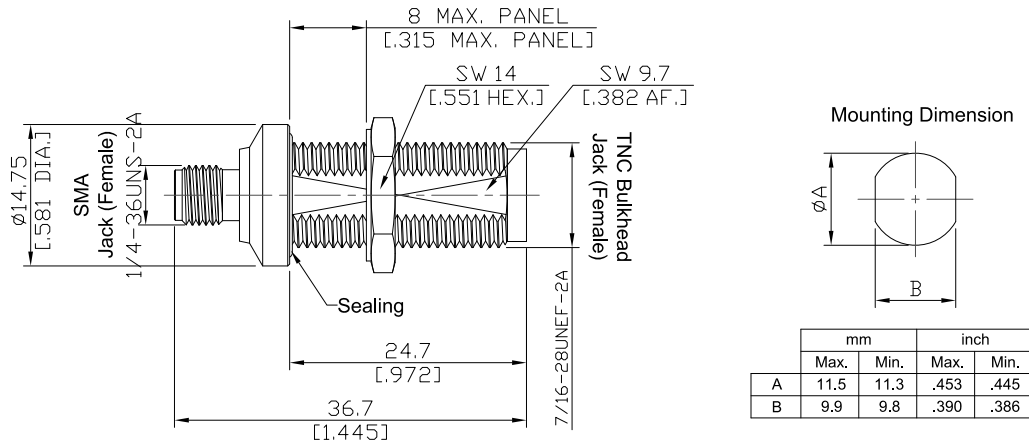


100 W Gas Discharge Tube Surge Protector from DC to 6 GHz,
SMA Jack (Female) to TNC Jack (Female) Bulkhead, 10KA

FGDT-A2T25A-BH-6G100W10KA / 9X-9X



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

SMA according to

IEC 60169-15; CECC 22110; MIL-PRF-39012; MIL-STD-348B/310; EN 122110

TNC according to

IEC 61169-17; CECC 22200; MIL-PRF-39012; MIL-STD-348B/313; DIN EN 122200

Electrical Data

Impedance

50 Ω

Frequency

DC to 6 GHz

VSWR (Return Loss)

≤ 1.35 (≥ 16.54 dB)

Insertion Loss

≤ 0.3dB

RF Power

100W max.

DC Spark-over Voltage

200V ±25% (@ 100 V/s)

Insulation resistance

≥ 5 GΩ

Center contact resistance

≤ 3 mΩ, SMA side ≤ 1.5 mΩ, TNC side

Outer contact resistance

≤ 2 mΩ, SMA side ≤ 1 mΩ, TNC side

Max. Surge Current

10 kA single, 5 kA multiple (test pulse 8/20 μs)

Throughput Energy

350 μJ (test pulse 4 kV 1.2/50 μs; 2 kA 8/20 μs)

Material And Plating

Piece Parts (SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating
Body	Stainless Steel	Passivated
Insulator	PTFE	
Piece Parts (TNC)	Material	Plating
Centre contact	Beryllium Copper	Gold plating
Body	Stainless Steel	Passivated
Insulator	PTFE	
Gasket	Silicone Rubber	
Fastening nut	Stainless Steel	Passivated
Washer	Stainless Steel	Passivated

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Mechanical Data

	SMA side	TNC side
Coupling mechanisms	Screw-On	Screw-On
Mating cycles	min. 500	min. 500
Center contact captivation: axial	≥ 27 N	≥ 27 N
Coupling test torque	max. 1.7 Nm	max. 1.7 Nm
Recommended torque	0.57 Nm	0.46 Nm to 0.69 Nm

Environmental Data

Temperature Range	-40°C to +85°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Shock	MIL-STD-202, Meth. 213, Cond. G
Moisture resistance	MIL-STD-202, Meth. 106
Degree of protection (mated pair)	IEC 60529, IP68
RoHS	compliant

Packing

Single or 100