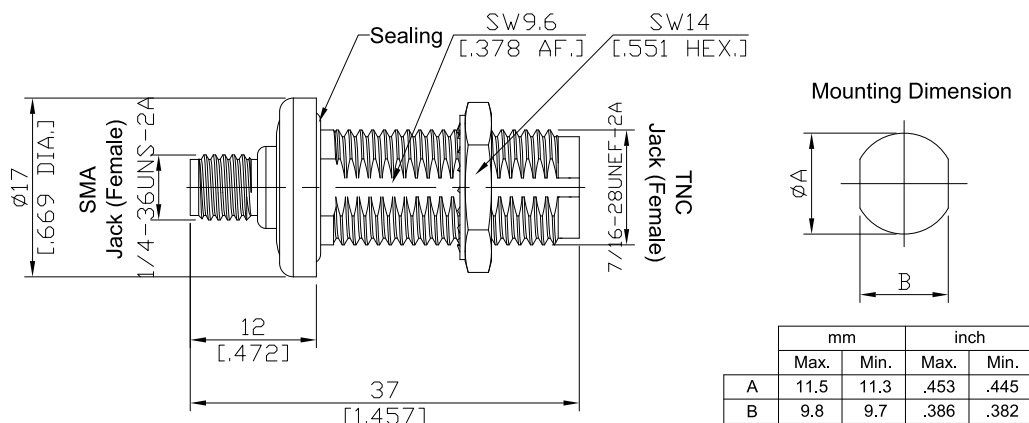


100 W Gas Discharge Tube Surge Protector from DC to 11 GHz,
TNC Jack (Female) Bulkhead to SMA Jack (Female), 10KA

FGDT-A2T25A-BH-11G100W10KA / 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 SMA; MIL-STD-348/310

TNC according to

IEC 61169-17;CECC 22 200;MIL-PRF-39012;TNC-Interface MIL-STD-348/313

Electrical Data

Impedance

50 Ω

Frequency

DC to 11 GHz

VSWR (Return Loss)

≤ 1.50 (≥ 13.98 dB)

Insertion Loss

≤ 0.3dB

RF Power

100W max.

Protection

200V ±50%

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

Test voltage

1000 V rms

Working voltage

480 V rms

Power handling (at 20 °C, sea level, VSWR 1.0)

P=U²/R (W) (depending on the gas capsule)

Nominal impulse discharge current (8/20 μs)

10 kA

LET-THRU

475 Vpk / 300u J (Input 2kA 8x20 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-lock	Screw-lock
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	0.8 Nm to 1.1 Nm	0.46 Nm to 0.69 Nm

Environmental Data

Temperature Range	-55°C to +155°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