

Gas Discharge Tube Type Arrestor with TNC to SMA connectors



- ✦ Frequency to 12.5 GHz
- ✦ Superior RF Performance
- ✦ Extremely Compact
- ✦ Multiple Strike Capability
- ✦ 10 kA Surge Protection
- ✦ Rugged and Waterproof
- ✦ Bi-directional Protection
- ✦ Bulkhead Mount w/ O-Ring Seal

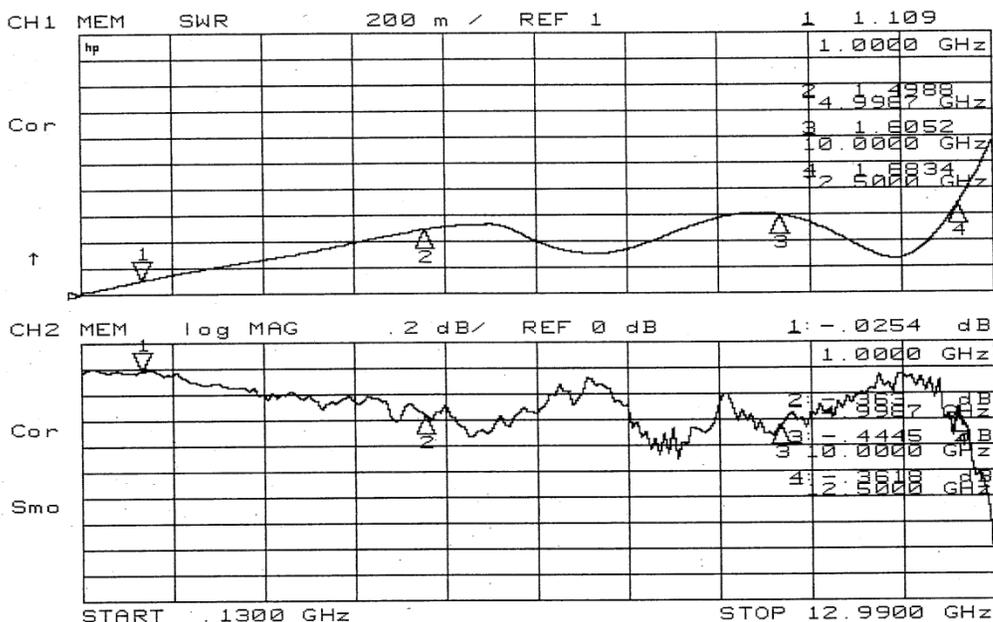
RF Specifications

- ✦ Nominal Impedance: 50Ω
- ✦ RF Power: See Table Below
- ✦ Through Current: 65 Vdc / 5A Maximum

Transient Specifications

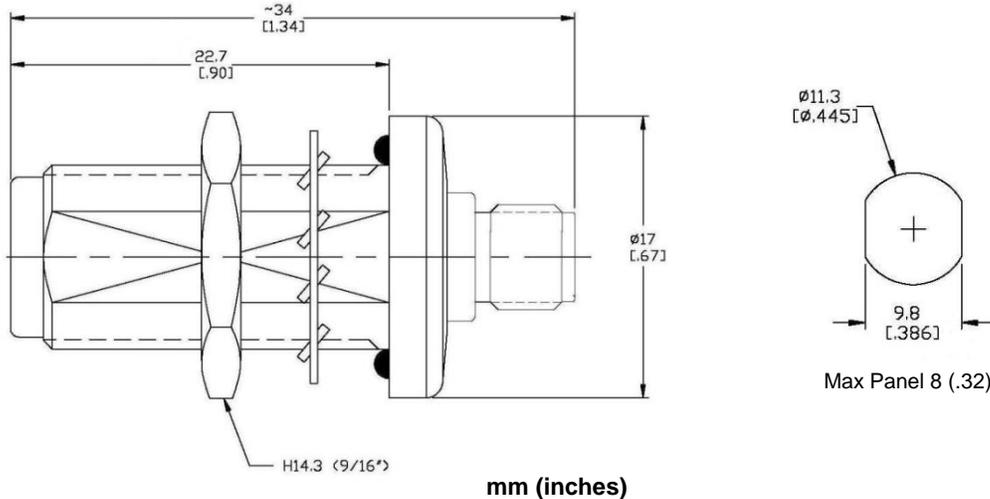
- ✦ Protection Voltage: 400V
- ✦ Maximum Transient: 10 kA (8x20μs)
- ✦ Multiple Strike: 3kA 10 times
- ✦ Let-through: 530V_{peak}/510μJ
(Input 4kV 1.2x50μs / 2kA 8x20μs)

Frequency (GHz)	Dc - 1.0GHz	1.0 - 2.0GHz	2.0 - 5.0GHz	5.0 - 12.5GHz
VSWR	1.12 max	1.20 max	1.50 max	1.50 typ
Insertion Loss, dB	.03 max	.20 max	.40 max	.40 typ
RF Power in Wcw	400	300	150	100



Typical VSWR and Insertion Loss

Mechanical Specifications



✦ Weight: 0.7 ounces typ / 20g typ

Environmental Specifications

Temperature Range	-40°C to +90°C
Salt Fog	MIL-STD-202 Method 101D / Condition B (35°C/96 hrs)
Immersion	MIL-STD-202 Method 104A / Condition A (65°C to 25°C w/NaCl – 2 cycles)
Moisture Resistance	MIL-STD-202 Method 106E (65 °C/98% RH condensing/240 hrs)
Temperature Shock	MIL-STD-202 Method 107D / Condition B-1 (25 cycles -65°C to +125°C)
Life (Elevated Temperature)	MIL-STD-202 Method 108A / Condition A (96 hours at 100°C)
Dust and Waterproof Rating	IEC529 IP68 (dust-tight and water proof 24 hrs / 1 m)
Vibration	MIL-STD-202 Method 204D / Condition D (10Hz-2kHz 0.06"DA/20g)
Mechanical Shock	MIL-STD-202 Method 213 / Condition A (50g/11ms ~24")

Material and Finish

Component	Material	Finish
Outer Parts	Brass	Nickel
Inner and Outer Contact	BeCu	Gold
SMA Connector	Brass	Gold
Insulator	PTFE	-
Gasket	EPDM	-

Shown with Optional Bracket
(P/N 750-0656)



Part Number

Part Number	Mounting Nut Side Connector	Flange Side Connector
PTCTNFSAF40G	TNC Female	SMA Female