# **NexTek**

**RF** Specifications

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Nominal Impedance: 50Ω

RF Power: 100 W Maximum

Through Current: 65 Vdc / 5A Maximum

#### Gas Discharge Tube Type Arrestor with SMA connectors

- + Frequency to 12.5 GHz
- + Superior RF Performance
- + Normal and Reverse Polarity SMA



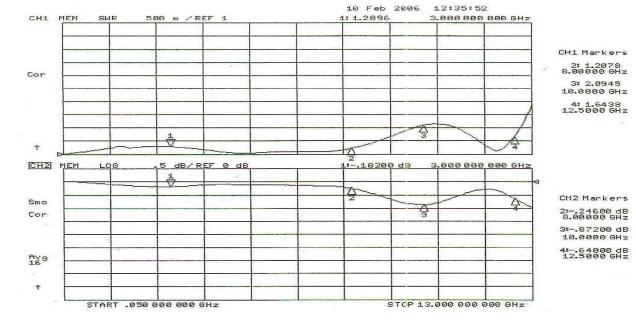


- Multiple Strike Capability
- + 20 kA Surge Protection
- Rugged and Waterproof
- Bi-directional Protection

### **Transient Specifications**

- Protection Voltage: 200V
- Maximum Transient: 20 kA (8x20μs)
- Multiple Strike: 5kA 10 times
- Let-through: 475 V<sub>peak</sub>/300μJ (Input 4kV 1.2x50μs / 2kA 8x20μs)

Frequency (GHz)	VSWR (Average)	Insertion Loss, dB		
Dc – 2.5	1.2	0.1		
2.5 – 8.0	1.3	0.3		
8. 0 – 12.5	1.5	0.3		

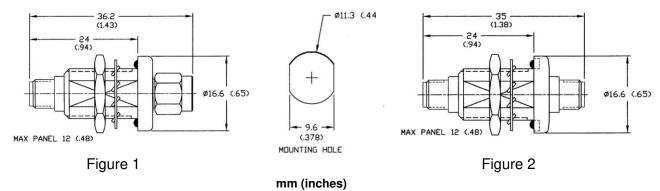


#### **Typical VSWR and Insertion Loss**



## **Mechanical Specifications**

+ Weight: 0.7 ounces typ / 20 g 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	IIL-STD-202 Method 213 / Condition A (50g/11ms ~24")	

#### Material and Finish

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

Shown with Optional Bracket (P/N 782-0009)



#### **Part Number**

Polarity	Part Number	Mounting Nut Side Connector	Flange Side Connector	Fig.
Normal	PTCSAFSAF20G	SMA Female	SMA Female	2
Normai	PTCSAMSAF20G	SMA Female	SMA Male	1
Reverse	PTCSJMSJM20G	RP SMA Jack	RP SMA Jack	2
	PTCSPFSJM20G	RP SMA Jack	RP SMA Plug	1
	PTCSAFSJM20G	SMA Female	RP SMA Jack	2
Mixed Normal & Reverse	PTCSJMSAF20G	RP SMA Jack	SMA Female	2
	PTCSPFSAF20G	SMA Female	RP SMA Plug	1
	PTCSAMSJM20G	RP SMA Jack	SMA Male	1