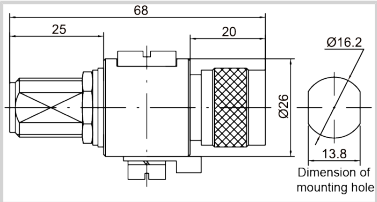
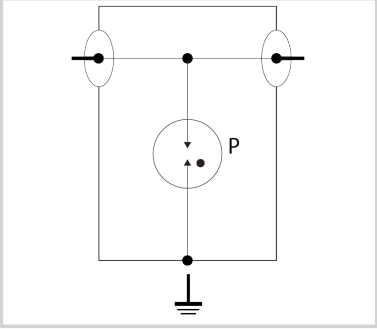
Coaxial surge protector DC-3.5 GHz

P8AX09-N/MF



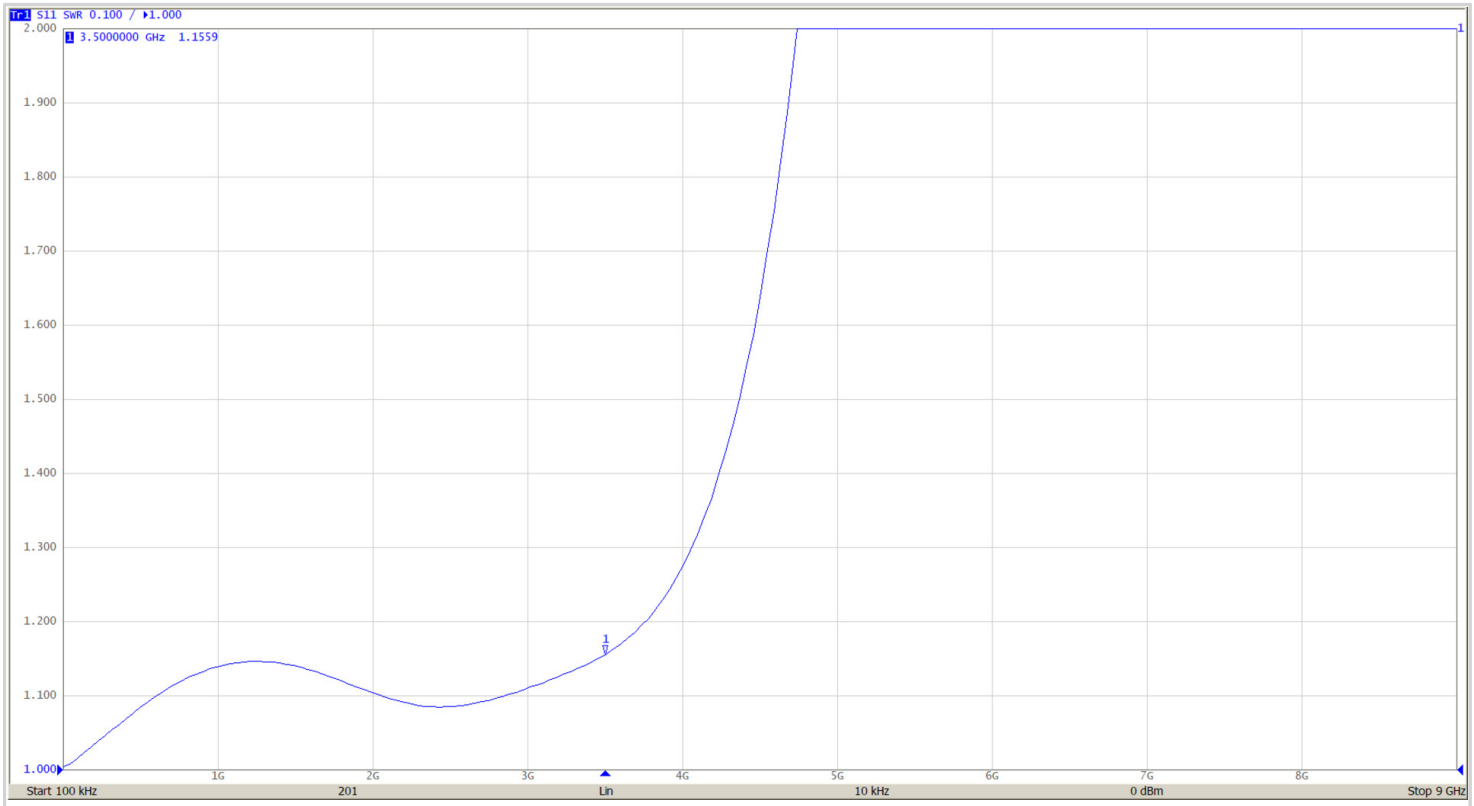
- RF coaxial surge protector
- 3.5 GHz
- Connectors: N
- Low insertion loss
- Removable GDT
- DC-pass
- Bi-directional protection
- Conforms to IEC/EN 61643-21
- SPD categories D1, C3, C2

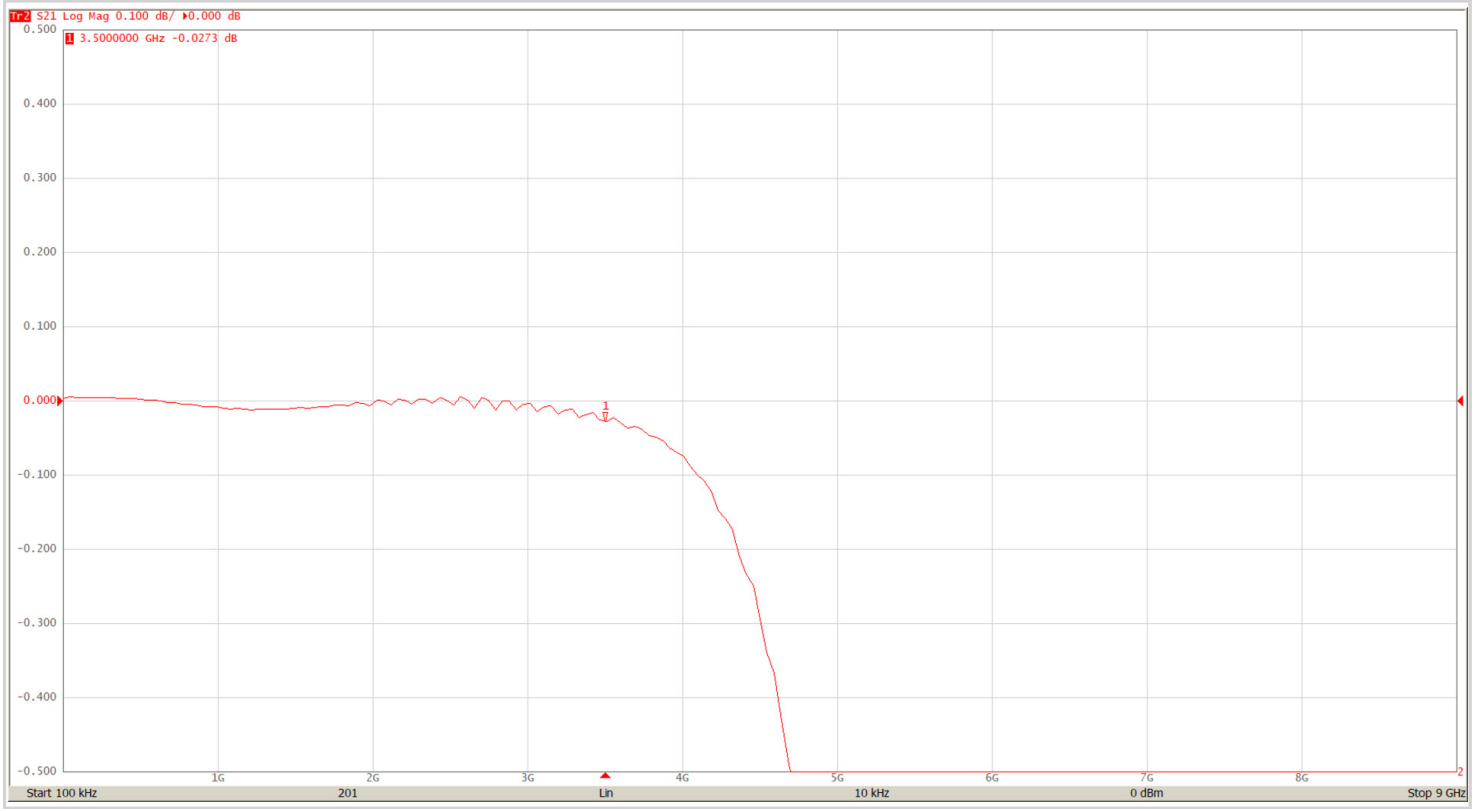




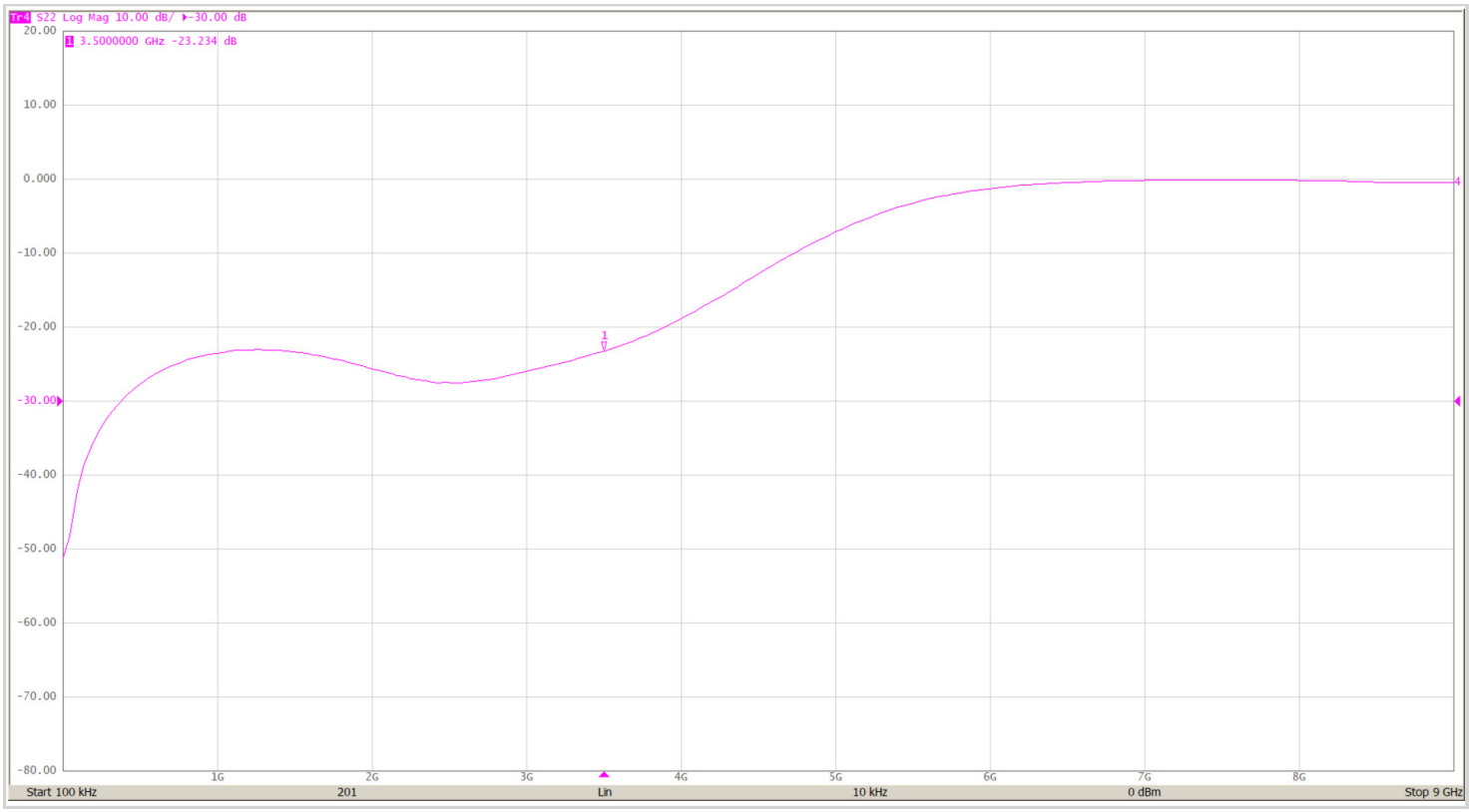
Electrical Characteristics		
Lightning Protection Zones (LPZ)		0 - 3
Max. DC operating voltage	Uc	72 Vdc
Frequency range	f	DC-3.5 GHz
Insertion loss		< 0.2 dB
Return loss		> 20 dB
Impedance		50 ohms
VSWR		<1.2:1
Max. load current @25°C	IL	10 A
Residual Current *Leakage current to Ground*	Ipe	None
Max. discharge current *max. withstand @ 8/20 µs by pole*	Imax	20 kA
Nominal discharge current *C2 (1.2/50us / 8/20µs), 10 applications X-C (Line/Earth)*	In	10 kV / 5 kA
Protection Level *C2 (1.2/50µs / 8/20µs), 10 applications, Y-C (Line-Earth)*	Up	< 1000 V
Protection Level *C3 (10/1000µs), 300 applications@10 A, Y-C (Line/Earth)*	Up	< 700 V
Impulse current *D1 (10/350µs), 2 applications, X-C (Line/Earth)*	Iimp	500 A
Max RF Power		25 W
Typical let through energy *(50 ohms) input 4kV 1.2/50µs - 2kA 8/20µs*		300 µJ
DC Pass		Yes
Insulation resistance	IR	≥10 GOhms
Mechanical Characteristics		
Technology		Gas discharge tube
Connection to Network		Connector N Male/Female
Mounting		Bulkhead or Bracket
Housing material		Brass/Surface plating: Cu Zn Sn
Operating temperature	Tu	-40/+85°C
Relative Humidity		5 - 85%
Ingress Protection rating		IP66
Failsafe mode		Transmision cut-off - fault mode 2 (short circuit)
Disconnection indicator		Transmision interrupt
Spare module(s)		BBHF-90V
Dimensions		See diagram
Contacts		Bronze/Surface Au-Ag
Weight		0.146 kg / 0.32 lbs
Standards		
Standards compliance		IEC 61643-21 / EN 61643-21 / UL497E
UL Category		QVLA - Antenna lead-in conductors
UL File Number		E349646
Environmental standards		EU RoHS
Part number		
60001		

P8AX09-N/MF


Tr1 S11 SWR 0.100 / 1.000
1 3.5000000 GHz 1.1559
2.000
1.900
1.800
1.700
1.600
1.500
1.400
1.300
1.200
1.100
1.000
1G
2G
3G
4G
5G
6G
7G
8G
Start 100 kHz
201
Lin
10 kHz
0 dBm
Stop 9 GHz


Tr2 S21 Log Mag 0.100 dB/ 0.000 dB
1 3.5000000 GHz -0.0273 dB
0.500
0.400
0.300
0.200
0.100
0.000
-0.100
-0.200
-0.300
-0.400
-0.500
1G
2G
3G
4G
5G
6G
7G
8G
Start 100 kHz
201
Lin
10 kHz
0 dBm
Stop 9 GHz

P8AX09-N/MF


Tr4 S22 Log Mag 10.00 dB/ ▸-30.00 dB
1 3.5000000 GHz -23.234 dB
20.00
10.00
0.000
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
-80.00
1G
2G
3G
4G
5G
6G
7G
8G
Start 100 kHz
201
Lin
10 kHz
0 dBm
Stop 9 GHz