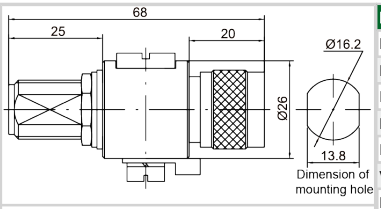
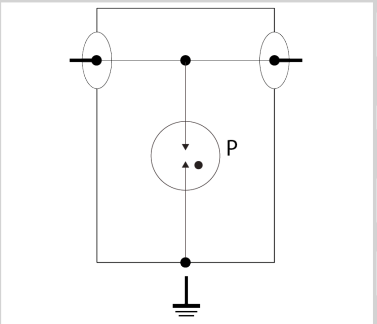
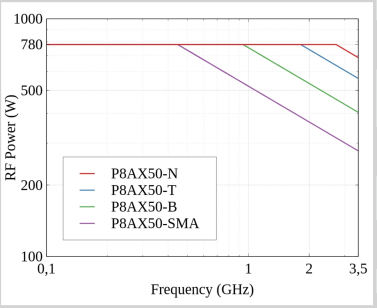
P8AX50-N/MF



- 4GHz Bi-Directional Coaxial Surge Protector - High Energy GDT Technology - Low Insertion Loss - Field Replaceable GDT - Waterproof Design - DC Pass - UL497E Listed



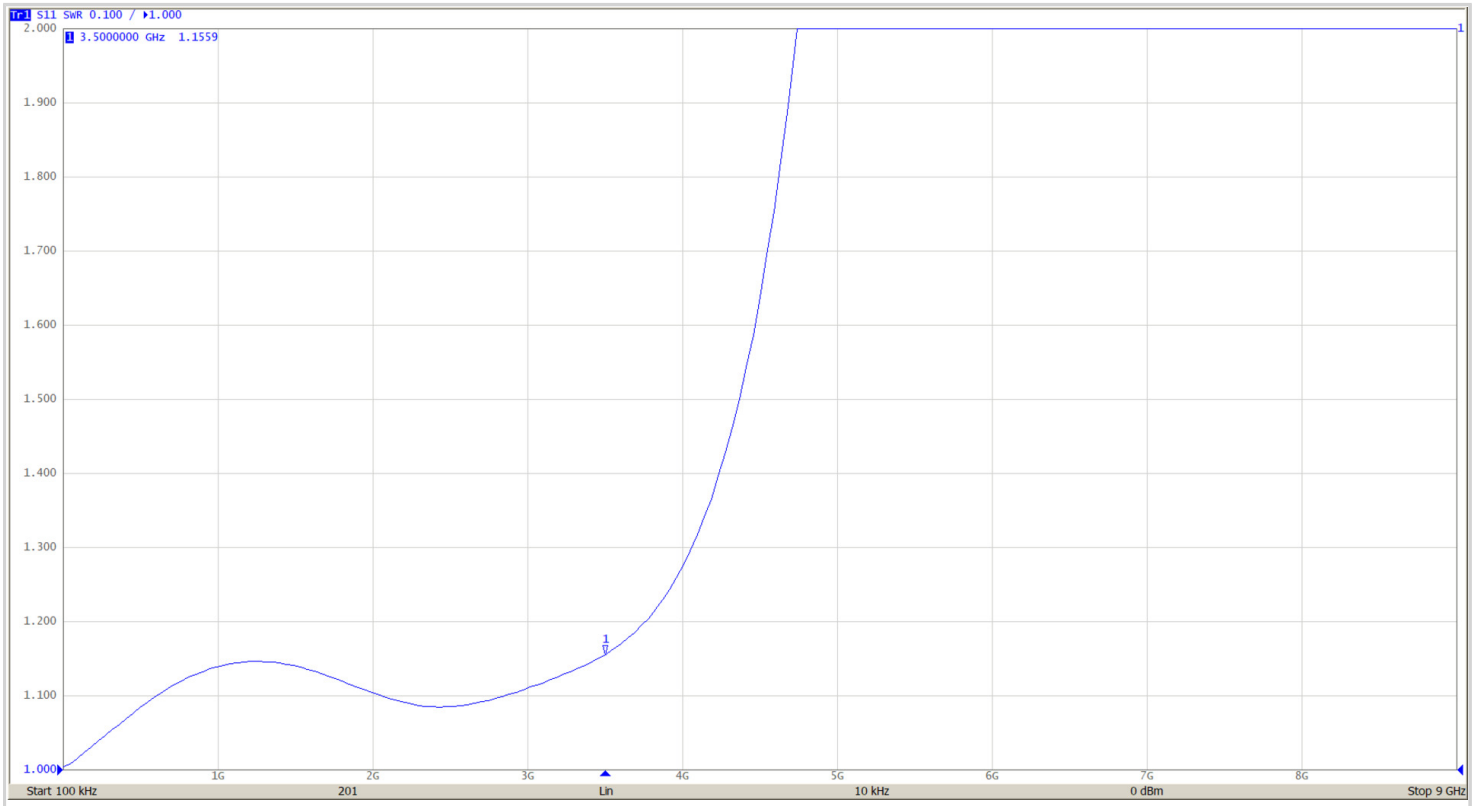


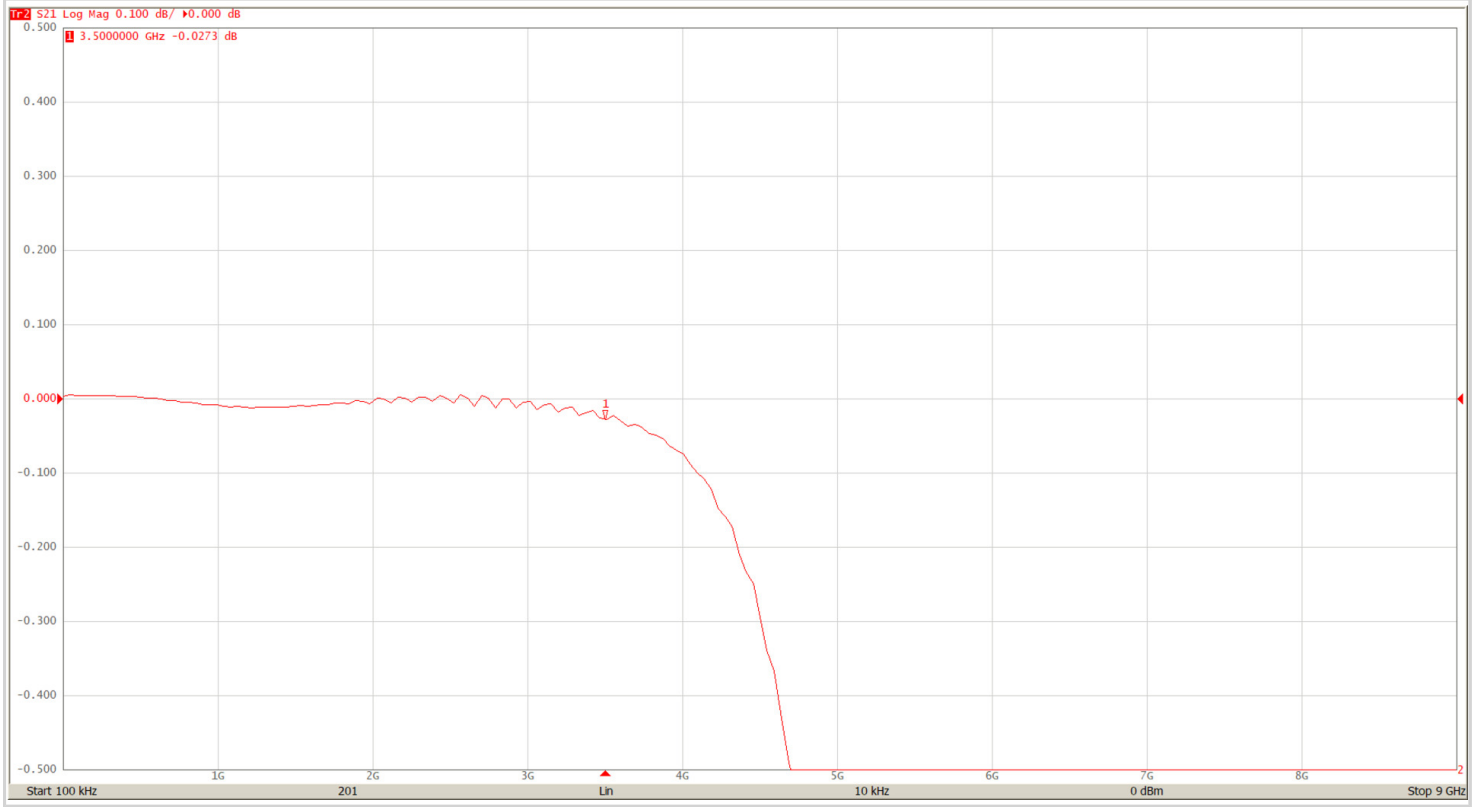


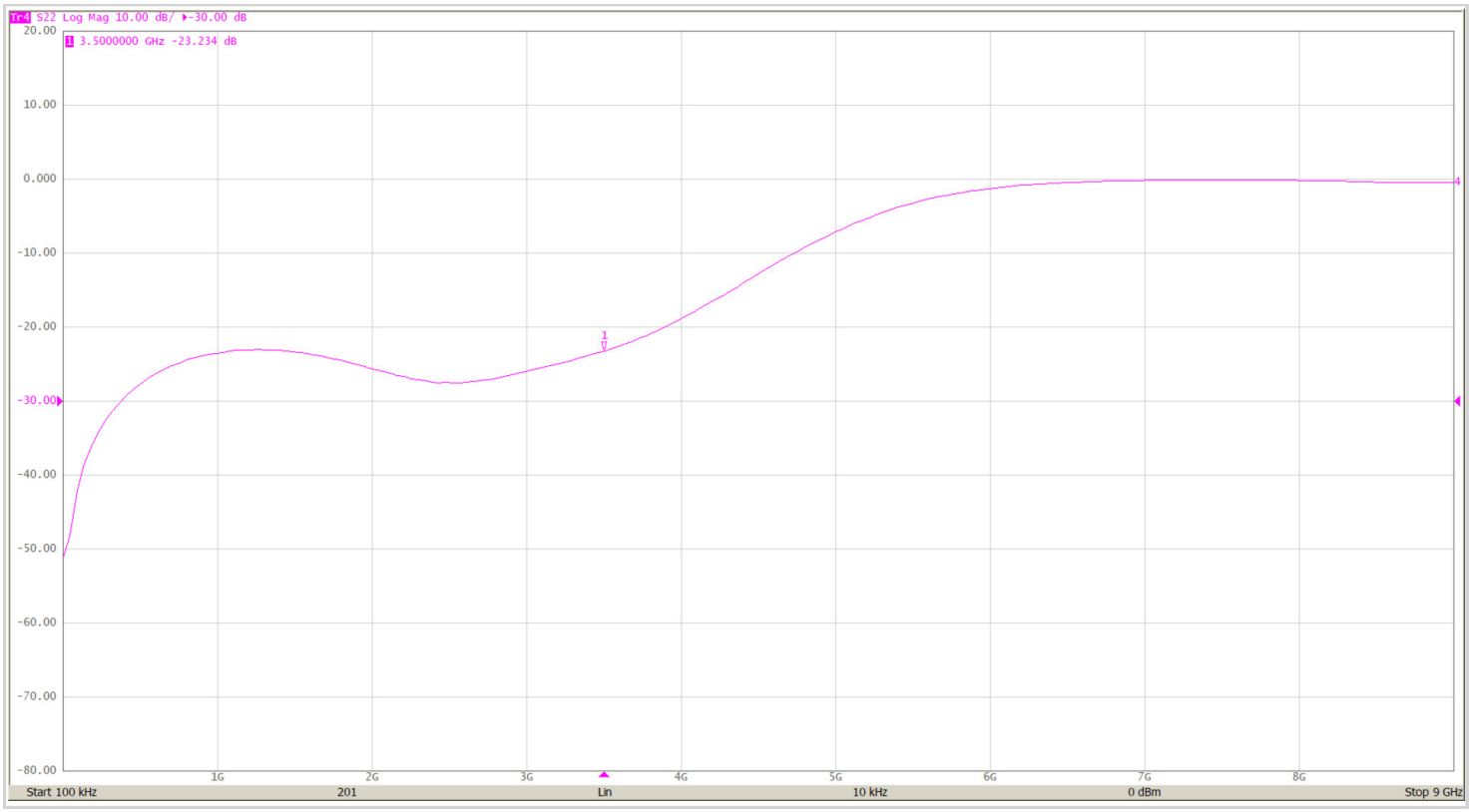
Electrical Characteristics		
Max. DC operating voltage	Uc	400 Vdc
Frequency range	f	DC-3.5 GHz
Insertion loss		< 0.2 dB
Return loss		> 20 dB
Impedance		50 ohms
VSWR		<1.2:1
Max. load current @25°C	IL	10 A
Max. discharge current *max. withstand @ 8/20 µs by pole*	Imax	20 kA
Nominal discharge current *C2 Category*	In	5 kA
Protection mode(s)		Common mode
Protection level *@1kV/µs (C3)*	Up	< 1200 V
Impulse current *2 x 10/350µs Test - D1 Category*	limp	1 kA
Max RF Power		687 W
Typical let through energy *(50 ohms) input 4kV 1.2/50µs - 2kA 8/20µs*		1100 µJ
DC Pass		Yes
Insulation resistance	IR	≥10 GOhms
RF Power *Maximum*	W	780.0000
Return Loss *Minimum*	db	20
VSWR *Maximum*	:1	<1.2:1
Max Total Discharge Current *Imax (8/20µs x 1)*	kA	20.0000
Max Discharge Current *Imax (8/20µs x 1)*	kA	20.0000
RF SPD TYPE		UL497E LISTED
VOLTS	(V)	48
AC/DC/DC PV/RF		RF
WIRES		1W+GROUND
LINE CURRENT MAX	(A)	10
AMBIENT MIN	(C)	-40
AMBIENT MAX	(C)	+85
IMAX *8/20µs*	(kA)	20
FREQUENCY RANGE	(GHz)	0-4.0
INSERTION LOSS (@ FREQ)	(db)	<0.2
RETURN LOSS	(db)	22
VSWR		<1.25:1
Installation		

P8AX50-N/MF

Operating Temperature*Min*	°C	-45.0000
Operating Temperature*Max*	°C	85.0000
Operating Temperature*Min*	°F	-50.0000
Operating Temperature*Max*	°F	85.0000
Operating Relative Humidity*Max*	%RH	Can be submerged
Operating Altitude*Min*	Ft	2000.0000
Operating Altitude*Max*	Ft	6500.0000
Housing/Enclosure material		Cu, Zn, Sn plated Brass
Mounting		Bracket or Bulkhead through-hole
IP Environmental rating*IP*		IP65
NEMA Environmental rating*NEMA*		NEMA 4
Installation Location		Indoor / outdoor
Spare part		BB HF 500/20
Accessories		BK series mounting bracket
Product Dimension*L*	mm	68.0000
Product Dimension*H*	mm	26.0000
Product Dimension*W*	mm	13.8000
Product Dimension*L*	In	2.6800
Product Dimension*H*	In	1.0200
Product Dimension*W*	In	0.5400
Miscelaneous		
Individual Pack		No
Storage Temperature*Min*	°C	-40.0000
Storage Temperature*Max*	°C	85.0000
Storage Temperature*Min*	°F	-40.0000
Storage Temperature*Max*	°F	85.0000
Mechanical Characteristics		
Technology		Gas discharge tube
Connection to Network		Connector N Male/Female
Mounting		Bulkhead or Bracket
Operating temperature	Tu	-40/+85°C
Protection rating		IP65
Failsafe mode		Short-circuit
Contacts		Bronze/Surface Au-Ag
Insulation material		PTFE
TECHNOLOGY		GDT
CONNECTION METHOD		SERIES CONNECTOR, BI-DIRECTIONAL
MOUNTING		BULKHEAD, OPTIONAL BRACKET
MATERIAL		Housing-Cu, Zn, Sn plated Brass
NEMA RATING (IP RATING)		NEMA 6P (IP67)
DIMENSIONS		See diagram
WEIGHT		0.30 lbs
Standards		
Environmental standards		EU RoHS
RohS compliance		Yes
UL STANDARD		UL497E
UL CATEGORY		QVLA
UL FILE NUMBER		E349646
STANDARDS		NOM-003-SCFI-2014, NOM-001-SCFI-1993
Part number		
60007		


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


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