



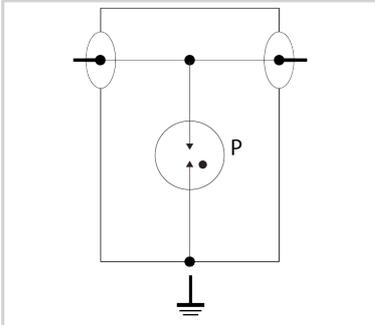
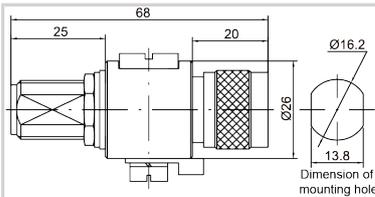
# CITEL

**UL497E LISTED - I<sub>max</sub> 20kA (10kA UL) - In 10kA**

**P8AX09-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	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
Max. discharge current <i>max. withstand @ 8/20 μs by pole</i>	I <sub>max</sub>	20 kA
Nominal discharge current <i>C2 Category</i>	I <sub>n</sub>	5 kA
Protection mode(s)		Common mode
Protection level <i>@1kV/μs (C3)</i>	U <sub>p</sub>	< 700 V
Impulse current <i>2 x 10/350μs Test - D1 Category</i>	I <sub>imp</sub>	1 kA
Max Power		25 W
Typical let through energy <i>(50 ohms) input 4kV 1.2/50μs - 2kA 8/20μs</i>		300 μJ
DC Pass		Yes
Insulation resistance	IR	≥10 GOhms
RF Power <i>Maximum</i>	W	25.0000
Return Loss <i>Minimum</i>	db	20
VSWR <i>Maximum</i>	:1	<1.25
Max Total Discharge Current <i>I<sub>max</sub> (8/20μs x 1)</i>	kA	10.0000
Max Discharge Current <i>I<sub>max</sub> (8/20μs x 1)</i>	kA	10.0000
RF SPD TYPE		UL497E LISTED
VOLTS	(V)	48
AC/DC/DC PV/RF		RF
WIRES		1W+GROUND
LINE CURRENT MAX	(A)	10
POWER RATING	(W)	25
AMBIENT MIN	(C)	-40
AMBIENT MAX	(C)	+85
RESIDUAL VOLTAGE	(V)	700
IMAX <i>8/20μs</i>	(kA)	20
FREQUENCY RANGE	(GHz)	0-4.0
INSERTION LOSS (@ FREQ)	(db)	<0.2
RETURN LOSS	(db)	22



P8AX09-N/MF

VSWR		<1.25:1
IMPEDANCE	Ω	50
<b>Installation</b>		
Operating Temperature <sub>Min</sub>	°C	-45.0000
Operating Temperature <sub>Max</sub>	°C	85.0000
Operating Temperature <sub>Min</sub>	°F	-50.0000
Operating Temperature <sub>Max</sub>	°F	85.0000
Operating Relative Humidity <sub>Max</sub>	%RH	Can be submerged
Operating Altitude <sub>Min</sub>	Ft	2000.0000
Operating Altitude <sub>Max</sub>	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 90/20
Accessories		BK series mounting bracket
Product Dimension <sub>L</sub>	mm	68.0000
Product Dimension <sub>H</sub>	mm	26.0000
Product Dimension <sub>W</sub>	mm	13.8000
Product Dimension <sub>L</sub>	In	2.6800
Product Dimension <sub>H</sub>	In	1.0200
Product Dimension <sub>W</sub>	In	0.5400
<b>Miscellaneous</b>		
Individual Pack		No
Storage Temperature <sub>Min</sub>	°C	-40.0000
Storage Temperature <sub>Max</sub>	°C	85.0000
Storage Temperature <sub>Min</sub>	°F	-40.0000
Storage Temperature <sub>Max</sub>	°F	85.0000
<b>Mechanical Characteristics</b>		
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
CONNECTOR TYPE		N
GENDER		MALE TO FEMALE
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
SPARE PART		BA HF 90/20
<b>Standards</b>		
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
<b>Part number</b>		
<b>60001</b>		

