



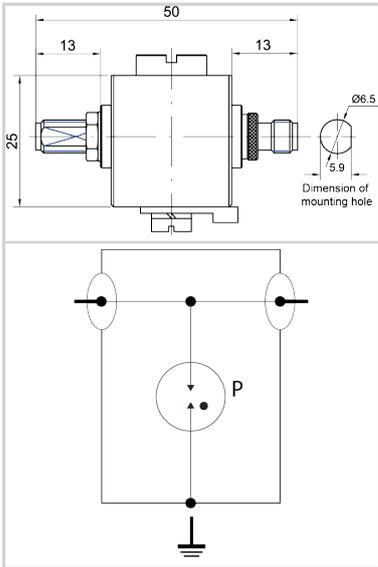
CITEL

- UL497E LISTED - I_{max} 20kA (10kA UL) - I_n 10kA (10kA UL) - Bi-directional - Replaceable Gas Tube

P8AX09-6G-SMA/FF



- Gas Discharge Tube Technology, DC Pass
- Frequency Range 0-6 GHz
- I_{max} 20kA, 10kA (UL), I_n 10kA
- IP67 Outdoor Rated
- SMA Type Connector
- Bi-Directional
- Replaceable Gas Tube



Electrical Characteristics

Max. DC operating voltage	U _c	120 Vdc
Frequency range	f	DC-6 GHz
Insertion loss		< 0.3dB
Return loss		> 18 dB
Impedance		50 ohms
VSWR		<1.3:1
Max. load current @25°C	I _L	10 A
Max. discharge current <i>max. withstand @ 8/20 μs by pole</i>	I _{max}	15 kA
Nominal discharge current <i>C2 Category</i>	I _n	5 kA
Protection mode(s)		Common mode
Impulse current <i>2 x 10/350 μs Test - D1 Category</i>	I _{imp}	1 kA
Max Power		25 W
Typical let through energy <i>(50 ohms) input 4kV 1.2/50 μs - 2kA 8/20 μs</i>		2.2 mJ
DC Pass		Yes
Insulation resistance	I _R	≥10 GOhms
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
I _{MAX} <i>8/20 μs</i>	(kA)	20
FREQUENCY RANGE	(GHz)	0-6.9
INSERTION LOSS (@ FREQ)	(db)	<0.2
RETURN LOSS	(db)	22
VSWR		<1.25:1

Mechanical Characteristics

Technology		Gas discharge tube
Connection to Network		Connector SMA Female/Female
Mounting		Feedthrough
Operating temperature	T _u	-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		Cu, Zn, Sn plated Brass, PTFE
NEMA RATING (IP RATING)		NEMA 6P (IP67)
DIMENSIONS		See diagram
WEIGHT		0.30 lbs

Standards

Environmental standards		EU RoHS
RohS compliance		Yes



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UL STANDARD	UL497E
UL CATEGORY	QVLA
UL FILE NUMBER	E349646
STANDARDS	NOM-003-SCFI-2014, NOM-001-SCFI-1993
Part number	
68511	

