



CITEL



P8AX50-U/MF

- Gas Discharge Tube Technology, DC Pass
- Frequency Range 0-2.5 GHz
- I_{max} 20kA, 10kA (UL), I_n 10kA
- IP67 Outdoor Rated
- U-Type Connector
- Bi-Directional
- Replaceable Gas Tube



Electrical Characteristics		
Max. DC operating voltage	U _c	400 Vdc
Frequency range	f	DC-2.5 GHz
Insertion loss		< 0.2 dB
Return loss		> 20 dB
Impedance		50 ohms
VSWR		<1.2
Max. load current @25°C	I _L	10 A
Max. discharge current <i>max. withstand @ 8/20 μs by pole</i>	I _{max}	20 kA
Nominal discharge current <i>C2 Category</i>	I _n	5 kA
Protection mode(s)		Common mode
Impulse current <i>2 x 10/350μs Test - D1 Category</i>	I _{imp}	1 kA
Max Power		780 W
DC Pass		Yes
Insulation resistance	I _R	≥10 GOhms
RF Power <i>Maximum</i>	W	190.0000
Return Loss <i>Minimum</i>	db	20
VSWR <i>Maximum</i>	:1	<1.2:1
Max Total Discharge Current <i>I_{max} (8/20μs x 1)</i>	kA	20.0000
Max Discharge Current <i>I_{max} (8/20μs x 1)</i>	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 <i>8/20μs</i>	(kA)	20
FREQUENCY RANGE	(GHz)	0-4.0
INSERTION LOSS (@ FREQ)	(db)	<0.2
RETURN LOSS	(db)	22
VSWR		<1.25:1
Installation		
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



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Operating Altitude Min	Ft	2000.0000
Operating Altitude Max	Ft	6500.0000
Housing/Enclosure material		Cu, Zn, Sn plated Brass
Mounting		Bracket or through hole
IP Environmental rating IP		IP65
NEMA Environmental rating $NEMA$		NEMA 4
Installation Location		Indoor / outdoor
Spare part		BB HF 250/20
Accessories		BK
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
Miscellaneous		
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 UHF Male/Female
Operating temperature	Tu	-40/+85°C
Protection rating		IP65
Failsafe mode		Short-circuit
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		
RohS compliance		Yes
UL STANDARD		UL497E
UL CATEGORY		QVLA
UL FILE NUMBER		E349646
STANDARDS		NOM-003-SCFI-2014, NOM-001-SCFI-1993
ENVIRONMENTAL STANDARDS		ROHS
Part number		
611811		

