

Technical Data Sheet

Surge Arrester with Gas Tube : LP-090V-3GHz

Title: Surge Arrester with Gas Tube

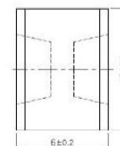
Gas Tubes:

Part no.

LP-090V-3GHz

Description

Gas Tube 90V for LP-NFM-3GHz and LP-NFF-3GHz



SPECIFICATION

ELECTRICAL SPECIFICATION

Model Name	DC Breakdown Voltage (V)	Maximum Impulse Breakdown Voltage (V)		Maximum Impulse Discharge Current (8/20 μs) (KA)		Normal Alternating Discharge Current (A)		Impulse Life 10/1000μs (100A)	DC Holdover Voltage (V)	Minimum Insulation Resistance (GΩ)	Maximum Capacitance (pf)
	100V/s	100V/μs	1000V/μs	1 time	10 times	50Hz, 1sec	Single 9cycles	times	< 150ms	Note1	1MHZ
2R-090	90 ±20%	500	600	15	10	5	65	500	52	1	1.5

Note1 : UL497B Recognized, File E223314

Note2 : DC Breakdown Voltage

DC Measuring Voltage

70-90V

50V

120-400V

100V

470-900V

250V

Standard Bulk Packaging Specifications

Quantity: 160 pieces per plastic tray

800 pieces per inner box

10 inner boxes per carton

8000 pieces per full carton

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ELECTRICAL RATING

Item	Test Condition / Description		Requirement
DC Breakdown Voltage	The voltage measured at a rise time of 100v/s.		To meet the specified value
Maximum Impulse Breakdown Voltage	The maximum breakdown voltage at rise times of 100v/us and 1000v/us.		
Maximum Impulse Discharge Current	The maximum current applying a waveform of 8/20us that can be applied across the terminals of the gas tube without causing the gas tube to change more than ±25% from its initial measured DC breakdown voltage. Dwell time between pulses is 3 minutes.		
Alternating Discharge Current	Rated RMS value of AC current at 50Hz, 1 sec. 10 times. Intervals: 3min. DC breakdown voltage may not change more than ±25% from its initial measured DC breakdown voltage. IR > 10 ⁶ ohms (-20%, +30% for 70 – 90V).		
Impulse Life	The minimum number of impulses of a specified waveform and peak current which a gas tube will conduct without causing the gas tube to change more than ±25% from its initial measured DC breakdown voltage. Dwell time between pulses is 1-2 minutes.		
DC Holdover Voltage	The maximum DC voltage across the two terminals of the gas tube under which it may be expected to return to the high impedance state after the gas tube breakdown.		
Insulation Resistance	The resistance of the gas tube shall be measured each terminal to each other terminal.		
	DC Breakdown Voltage	Measuring Voltage	
	70-150V	50V	
	151-400V	100V	
	470-1000V	250V	
	1001-2000V	500V	
Capacitance	2001-6000V	1000V	
	The capacitance of a gas tube shall be measured each terminal to each other terminal. Test frequency: 1MHz In measurements involving 3-electrode gas tubes, the terminal not being tested shall be connected to a ground plane.		