

Selection Guide

Product Family	Power Gaps		
Voltage Range	350-3,500V		
Series [Notes 3, 4]	PMT(275)	UMT(275)	PMT(301) [Notes 1, 10]
Description	Two Electrode Ultra Fast Surge Protection		Two Electrode Fast Surge Protection
DC @ 100V/s	350-500V	550-2,500V	350-3,500V
Impulse @ 5kV/μs	750V	760-3,440V	1,150-4,470V [Note 10]
IR @ 100Vdc	10 ¹⁰ Ohms	10 ¹⁰ Ohms	10 ¹⁰ Ohms
Capacitance @ 1 MHz	3.5pF	3.5pF	2.0pF
Surge Life Ratings	500 surges @ 1,000A (8/20)		6,000-68,100 surges @ 100A (8/20)
Maximum Surge Current Ratings @ 8/20μs	20,000A		20,000A
Cumulative Charge Ratings [Note 8]	10 Coulombs		12-136 Coulombs
Applications	Avionic Military Industrial Medical		Avionic Military Industrial Medical

Note (1) PMT(301) is the lowest capacitance Power Gap suitable for protection of high frequency antennas and transmission lines.

Note (3) Specifications listed for Impulse Breakdown and Capacitance are maximum values while IR specifications are nominal values and Surge Life specifications are minimum values.

Note (4) The range of values corresponds to the low and high member of the Series.

Note (8) Life ratings on select members of a Series are determined by laboratory tests and are dependent on the cumulative charge, in coulombs (Q), that is passed during the tests. By similarity, the Life Rating of the gaps of a Series, tested with different waveforms, can be approximated by dividing the Cumulative Charge Rating by the charge content in the given waveform that is passed without changing its DC Breakdown Voltage by more than 20%. The coulomb content of any surge current can be approximated by determining the area under the current waveform.

Note (10) Impulse Breakdown measurements taken at 80kV/μs.