

DATA SHEET

In-line SPD for Coaxial & RF Systems

RayDat CP UHF Series**C1 • C2 • C3**

IEC/EN Category: C1/C2/C3

Surge Discharge Ratings: I_n : 10 kA, I_{max} : 20 kA

Max. Operating Voltage: 70, 180, 280 V

Maximum Peak Power: 40, 125, 300 W

Frequency Range: DC–600 MHz

Impedance: 50 Ω

Insertion Loss: < 0.4 dB

Return Loss: > 20 dB

Termination: UHF Type (F-F, M-F)

Housing: In-line Installation, Shielded Enclosure

Compliance: IEC/EN 61643-21

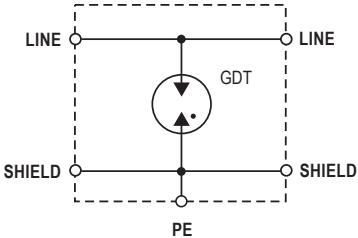
**Technical Data**

CP UHF		70	180	280
Electrical				
Maximum Continuous Operating Voltage	U _c	70V	180V	280V
Maximum Peak Power	P _{max}	40W	125W	300W
C2 Nominal Discharge Current (8/20μs)	I _n		10kA	
Maximum Discharge Current (8/20μs)	I _{max}		20kA	
Residual Voltage at (1kV/μs)	U _{res}	<600V	<700V	<900V
Impedance	Z		50Ω	
Insertion Loss	I _L		<0.4dB	
Return Loss	R _L		>20dB	
Insulation Resistance of Protection	R _{iso}		>10GΩ	
Frequency Range	f _G		0–600MHz	
Mechanical				
Temperature Range		-40 °F to +176 °F [-40 °C to +80 °C]		
Connection		UHF Female/Female		UHF Male/Female
Degree of Protection IEC/EN 60529		IP 20 (built-in)		
Housing Material		Metal		
Order Information				
Order Code		70	180	280
CP UHF-FF-xxx		800 869	800 870	800 871
CP UHF-MF-xxx		800 872	800 873	800 874

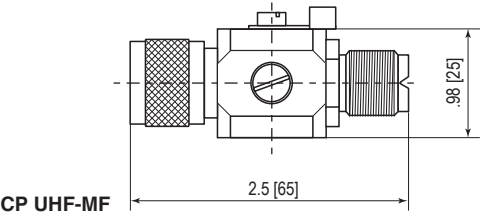
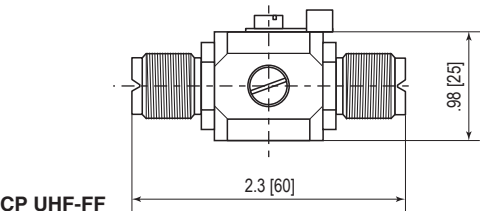
RayDat CP UHF Series

Internal Configuration

Legend
GDT Gas Discharge Tube
PE Ground



Dimensions & Packaging



CP UHF	CP UHF-FF-xxx			CP UHF-MF-xxx		
	70	180	280	70	180	280
Dimensions						
Weight per Unit	3.67 oz [104g]			3.67 oz [104g]		
Packaging Dimensions (Single Unit)	2.4 x 1.2 x 1.4" [62 x 30 x 35mm]					
Minimum Package Quantity	100 pieces					

inches
[mm]

Information contained in this document is subject to change at any time without notice.

RoHS COMPLIANT  CE