

DATA SHEET

In-line SPD for Coaxial & RF Systems

RayDat CP F75 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 V
 Maximum Peak Power: 40, 125 W
 Frequency Range: DC–2.0 GHz
 Impedance: 75 Ω
 Insertion Loss: < 0.4 dB
 Return Loss: > 20 dB
 Termination: F Type (F-F, M-F)
 Housing: In-line Installation, Shielded Enclosure
 Compliance: IEC/EN 61643-21

**Technical Data****CP F75****70****180****Electrical**

Maximum Continuous Operating Voltage	U_c	70 V	180 V
Maximum Peak Power	P_{max}	40 W	125 W
C2 Nominal Discharge Current (8/20 μ s)	I_n	10 kA	
Maximum Discharge Current (8/20 μ s)	I_{max}	20 kA	
Residual Voltage at (1 kV/ μ s)	U_{res}	< 600 V	< 700 V
Impedance	Z	75 Ω	
Insertion Loss	I_L	< 0.4 dB	
Return Loss	R_L	> 20 dB	
Insulation Resistance of Protection	R_{iso}	> 10 G Ω	
Frequency Range	f_G	0–2.0 GHz	

Mechanical

Temperature Range	-40 °F to +176 °F [-40 °C to +80 °C]		
Connection	F Female/Female	F Male/Female	
Degree of Protection IEC/EN 60529	IP 20 (built-in)		
Housing Material	Metal		

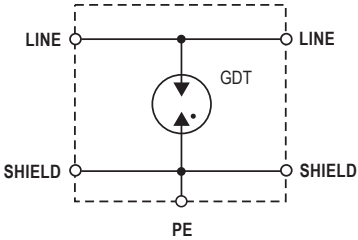
Order Information

Order Code	70	180
CP F75-FF-xxx	800 875	800 876
CP F75-MF-xxx	800 877	800 878

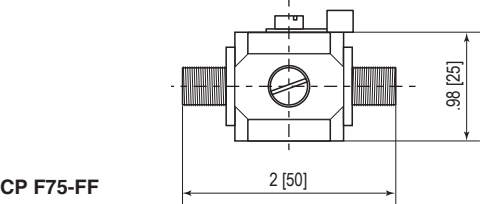
RayDat CP F75 Series

Internal Configuration

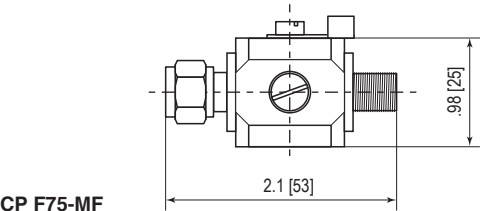
Legend
GDT Gas Discharge Tube
PE Ground



Dimensions & Packaging



CP F75-FF



CP F75-MF

CP F75	CP F75-FF		CP F75-MF	
	70	180	70	180
Dimensions				
Weight per Unit	2.82 oz [80 g]		2.96 oz [84 g]	
Packaging Dimensions (Single Unit)	2.8 × 1.2 × 1.2" [73 × 30 × 30 mm]			
Minimum Package Quantity	100 pieces			

inches
[mm]

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

