

DATA SHEET

In-line SPD for Coaxial & RF Systems

RayDat CP N 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–2.6 GHz

Impedance: 50 Ω

Insertion Loss: < 0.4 dB

Return Loss: > 20 dB

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

Housing: In-line Installation, Shielded Enclosure

Compliance: IEC/EN 61643-21

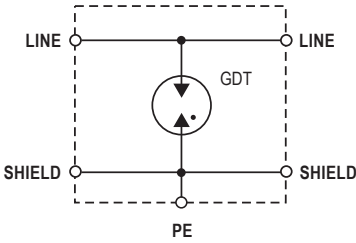
**Technical Data**

CP-N		70	180	280
Electrical				
Maximum Continuous Operating Voltage	U_c	70 V	180 V	280 V
Maximum Peak Power	P_{max}	40 W	125 W	300 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	< 900 V
Impedance	Z		50 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		0–2.6 GHz	
Mechanical				
Temperature Range		-40 °F to +176 °F [-40 °C to +80 °C]		
Connection		N Female/Female		N Male/Female
Degree of Protection IEC/EN 60529			IP 20 (built-in)	
Housing Material			Metal	
Order Information				
Order Code		70	180	280
CP N-FF-xxx		800 859	800 860	800 861
CP N-MF-xxx		800 862	800 863	800 864

RayDat CP N Series

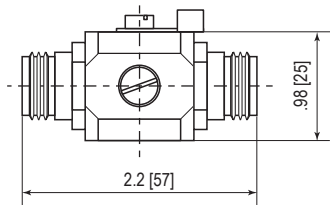
Internal Configuration

Legend
GDT Gas Discharge Tube
PE Ground

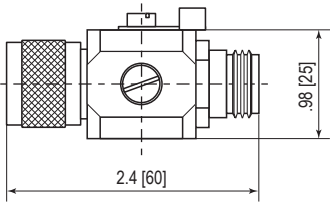


Dimensions & Packaging

CP N-FF



CP N-MF



CP N	CP N-FF-xxx			CP N-MF-xxx		
	70	180	280	70	180	280
Dimensions						
Weight per Unit	4.87 oz [138g]			5.01 oz [142g]		
Packaging Dimensions (Single Unit)	2.9 × 1.2 × 1.2" [73 × 30 × 30mm]					
Minimum Package Quantity	100 pieces					

inches
[mm]

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

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