

In-line SPD for High Frequency Coaxial & RF Systems
RayDat CP N-6G Series
 C1 • C2 • C3

CCP-N-6G Series



- IEC/EN Category: C1/C2/C3
- Protection: Impedance Matched
- Maximum Operating Voltage: 180V
- Maximum Peak Power: 125W
- Frequency Range: DC–6.0GHz
- Surge Discharge Ratings: I_n : 10kA, I_{max} : 20kA
- Impedance: 50Ω
- Insertion Loss: < 0.4dB
- Return Loss: > 20dB
- Termination: N Type (F-F, M-F)
- Housing: Bulkhead Installation, Shielded Enclosure
- Compliance: IEC/EN 61643-21

The RayDat CP N-6G Series of coaxial surge protectors is intended to protect RF antenna systems and is suitable for frequencies from DC to 6.0 GHz.

It is designed as an in-line unit allowing ease of installation. The careful design, low capacitance gas discharge arresters and high quality N-type termination connectors, ensures a minimum of insertion loss throughout the frequency band.

Transfer power is 125W continuous.

The CP N-6G coaxial cable protector is designed in accordance with IEC 61643-21: 2009 standards and regulations.

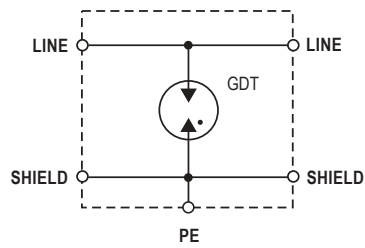
A grounding stud is provided which should be connected to the system ground or coaxial feed-through bulkhead, as directly as possible.

Technical Data

CP N-6G	CP N-6G-FF	CP N-6G-MF
Electrical		
Maximum Continuous Operating Voltage	U_c	180V
Maximum Peak Power	P_{max}	125W
C2 Nominal Discharge Current (8/20μs)	I_n	10kA
Maximum Discharge Current (8/20μs)	I_{max}	20kA
Residual Voltage at (1kV/μs)	U_{res}	< 700V
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	0–6.0 GHz
Mechanical		
Temperature Range	-40 °C to +80 °C	
Connection	N Female/Female	N Male/Female
Degree of Protection IEC/EN 60529	IP 20	
Housing Material	Metal	
Order Information		
Order Code		
CP N-6G-XX	800 865	800 866

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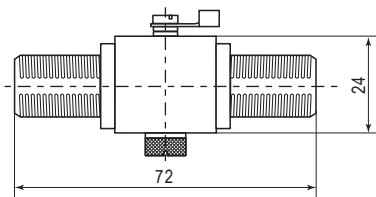
Internal Configuration



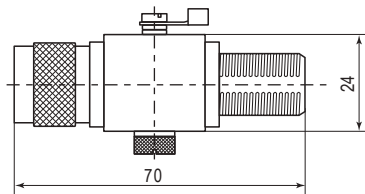
Legend

GDT Gas Discharge Tube

Dimensions & Packaging



CP N-6G-FF



CP N-6G-MF

CP N-6G	CP N-6G-FF	CP N-6G-MF
Dimensions		
Weight per Unit	132 g	130 g
Packaging Dimensions (Single Unit)	73 × 30 × 30 mm	
Minimum Package Quantity	100 pieces	