

In-line SPD for High Frequency Coaxial & RF Systems

RayDat CP TNC-6G Series

CCP-TNC-6G Series

C1 • C2 • C3



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: TNC Type (F-F, M-F)

Housing: In-line Installation, Shielded Enclosure

Compliance: IEC/EN 61643-21

The RayDat CP TNC-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 TNC-type termination connectors, ensures a minimum of insertion loss throughout the frequency band.

Transfer power is 125W continuous.

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

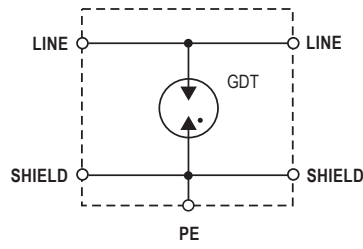
A grounding stud is provided which should be connected to the system ground or coaxial feed-through bulkhead, as directly as possible.

Technical Data

CP TNC-6G	CP TNC-6G-FF	CP TNC-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	TNC Female/Female	TNC Male/Female
Degree of Protection IEC/EN 60529	IP 20	
Housing Material	Metal	
Order Information		
Order Code		
CP TNC-6G-XX	800 867	800 868

RayDat CP TNC-6G Series

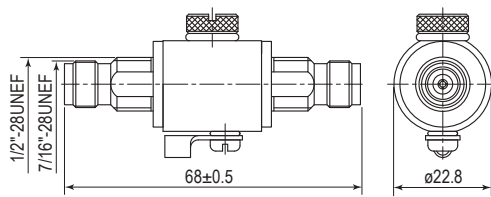
Internal Configuration



Legend

GDT Gas Discharge Tube

Dimensions & Packaging



CP TNC-6G

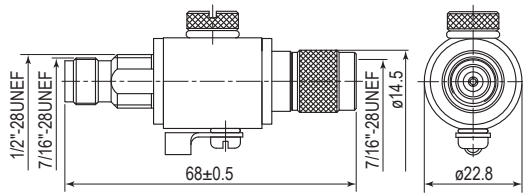
CP TNC-6G-FF

CP TNC-6G-MF

Dimensions

Dimensions	CP TNC-6G-FF	CP TNC-6G-MF
Weight per Unit	130 g	128 g
Packaging Dimensions (Single Unit)	73 × 30 × 30 mm	
Minimum Package Quantity	100 pieces	

CP TNC-6G-FF



CP TNC-6G-MF