

DATA SHEET

In-line SPD for High Frequency Coaxial & RF Systems

RayDat CP TNC-6G Series**C1 • C2 • C3**

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

**Technical Data****CP TNC-6G****CP TNC-6G-FF****CP TNC-6G-MF****Electrical**

Maximum Continuous Operating Voltage	U_c	180 V
Maximum Peak Power	P_{max}	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}	< 700 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	0–6.0 GHz

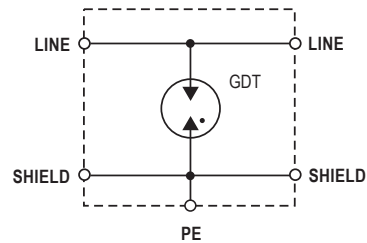
Mechanical

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

Order Information

Order Code		
CP TNC-6G-XX	800 867	800 868

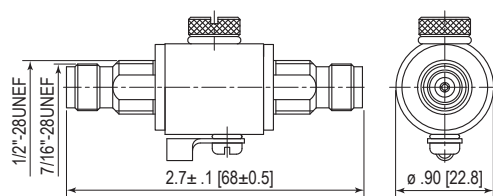
Internal Configuration



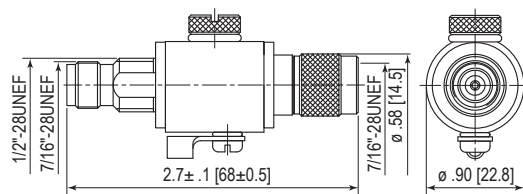
Legend

GDT Gas Discharge Tube
PE Ground

Dimensions & Packaging



CP TNC-6G-FF



CP TNC-6G-MF

CP TNC-6G	CP TNC-6G-FF	CP TNC-6G-MF
Dimensions		
Weight per Unit	4.6 oz [130g]	4.51 oz [128g]
Packaging Dimensions (Single Unit)	2.9 x 1.2 x 1.2" [73 x 30 x 30 mm]	
Minimum Package Quantity	100 pieces	

inches
[mm]

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

RoHS
COMPLIANT  **CE**