

DATA SHEET

In-line SPD for Coaxial & RF Systems

RayDat CP-SMA Series**D1 • C1 • C2 • C3**

IEC/EN Category: D1/C1/C2/C3
 Surge Discharge Ratings: I_n : 5 kA, I_{max} : 10 kA, I_{imp} : 1 kA
 Max. Operating Voltage: 180 V
 Maximum Peak Power: 125 W
 Frequency Range: DC–6 GHz
 Impedance: 50 Ω
 Insertion Loss: < 0.25 dB
 Return Loss: > 20 dB
 Termination: SMA Type (M-F)
 Housing: In-line Installation, Shielded Enclosure
 Compliance: IEC/EN 61643-21

**Technical Data****CP-SMA****180****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	5 kA
Maximum Discharge Current (8/20 μ s)	I_{max}	10 kA
D1 Impulse Discharge Current (10/350 μ s)	I_{imp}	1 kA
Residual Voltage at (1 kV/ μ s)	U_{res}	1600 V
Impedance	Z	50 Ω
Insertion Loss	I_L	< 0.25 dB
Return Loss	R_L	> 20 dB
Insulation Resistance of Protection at U_c	R_{iso}	> 10 G Ω
Frequency Range	f_G	0 - 6.0 GHz

Mechanical

Temperature Range	-40 °C to +80 °C
Connection	SMA Male to SMA Female
Degree of Protection IEC/EN 60529	IP 20
Housing Material	Metal

Order Information

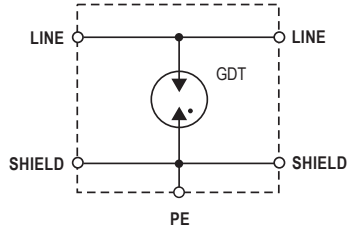
CP-SMA-MF-180	800 887
---------------	---------

RayDat CP-SMA Series

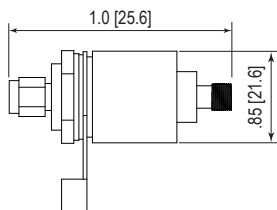
Internal Configuration

Legend

GDT Gas Discharge Tube
PE Ground



Dimensions & Packaging



CP-SMA

180

Dimensions

Weight per Unit	2.40 oz [68 g]
Packaging Dimensions (Single Unit)	20.84 × 1.58 × 1.58" [72 × 40 × 40 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

Raycap

www.raycap.com

© 2020 Raycap All rights reserved.
G29-00-644 201204