

In-line SPD for Coaxial & RF Systems



C1 • C2 • C3

IEC/EN Category: C1/C2/C3 Protection: Impedance Matched Maximum Operating: Voltage: 70, 180, 280 V Maximum Peak Power: 40, 125, 300 W Frequency Range: DC - 2.6 GHz Surge Discharge Ratings: In : 10 kA, I max : 20 kA Impedance: 50 Ω Insertion Loss: < 0.4 dB Return Loss: > 20 dB Termination: BNC Type (F-F, M-F) Housing: In-line Installation, Shielded Enclosure Compliance: IEC/EN 61643-21



The SPT CP BNC Series of coaxial surge protectors is intended to protect RF antenna systems and is suitable for frequencies from DC to 2.6 GHz.

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

Transfer power is 40 W to 300 W continuous, depending on the coaxial cable protector voltage.

The CP coaxial cable protector is designed in accordance with IEC61643-21: 2012 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

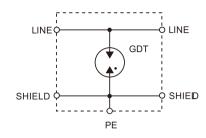
PT CP BNC		70	180	280			
IEC Electrical							
Maximum Continuous Operating Voltage	Uc	70V	180V	280V			
Maximum Peak Power	Pmax	40W	125 W	300W			
C2 Nominal Discharge Current (8/20 µs)	In		10 kA				
Maximum Discharge Current (8/20 µs)	Imax		20 kA				
Residual Voltage at (1 kV/µs)	Ures	<600V	<700V	<900V			
Impedance	Z		500				
Insertion Loss	IL		<0.4dB,				
Return Loss	RL	>20dB					
Insulation Resistance of Protection	Riso	>10GQ					
Frequency Range	fG	0-2.6 GHz					
Mechanical							
Temperature Range		-40 °F to +176 °F [-40 °C to +80 °C]					
Connection		BNC Female/Female		BNC Male/Female			
Degree of Protection IEC/EN 60529		IP 20 (built-in)					
Housing Material		Metal					
Order Information							
Order Code		70	180	280			
SPT CP BNC-FF-xxx		800 850	800 851	800 852			
SPT CP BNC-MF-xxx		800 853	800 854	800 855			

SPT CP BNC

Internal Configuration

Legend

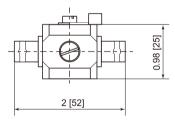
GDT Gas Discharge Tube PE Ground

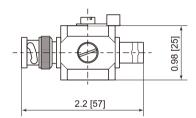


Dimensions & Packaging

SPT CP BNC-FF

SPT CP BNC-MF





	SPT CP BNC-FF-xxx			SPT CP BNC-MF-xxx			
SPT CP BNC	70	180	280	70	180	280	
Dimensions & Packaging							
Weight per Unit	3.74 oz [106 g]			4.02 oz [114 g]			
Packaging Dimensions (Single Unit)	2.9 × 1.2 × 1.2" [73 × 30 × 30 mm]						
Minimum Package Quantity	100 pieces						