

In-line SPD for Coaxial & RF Systems

RayDat CP BNC Series

C1 • C2 • C3

CCP-BNC Series



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

The RayDat 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 40W to 300W continuous, depending on the coaxial cable protector voltage.

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

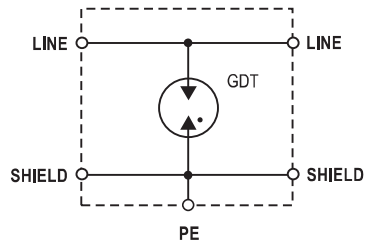
A grounding stud is provided which should be connected to the system ground or coaxial feed-through bulkhead, as directly as possible.

Technical Data

CP BNC		70V	180V	280V
Electrical				
Maximum Continuous Operating Voltage	U_c	70V	180V	280V
Maximum Peak Power	P_{max}	40W	125W	300W
C2 Nominal Discharge Current (8/20μs)	I_n		10kA	
Maximum Discharge Current (8/20μs)	I_{max}		20kA	
Residual Voltage at (1kV/μs)	U_{res}	<600V	<700V	<900V
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		0–2.6GHz	
Mechanical				
Temperature Range		-40 °C to +80 °C		
Connection		BNC Female/Female	BNC Male/Female	
Degree of Protection IEC/EN 60529		IP 20		
Housing Material		Metal		
Order Information				
Order Code		70V	180V	280V
CP BNC-FF-xxx		800 850	800 851	800 852
CP BNC-MF-xxx		800 853	800 854	800 855

RayDat CP BNC Series

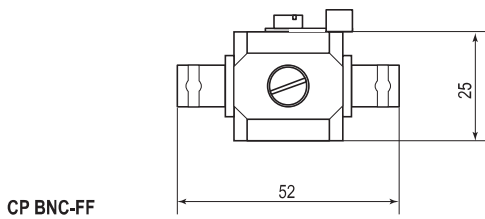
Internal Configuration



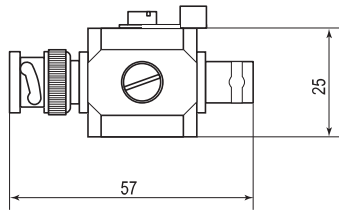
Legend

GDT Gas Discharge Tube

Dimensions & Packaging



CP BNC-FF



CP BNC-MF

CP BNC	CP BNC-FF-xxx			CP BNC-MF-xxx		
	70V	180V	280V	70V	180V	280V
Dimensions						
Weight per Unit	106 g			114 g		
Packaging Dimensions (Single Unit)	73 x 30 x 30 mm					
Minimum Package Quantity	100 pieces					

In-line SPD for Coaxial & RF Systems
RayDat CP 7/16 Series
C1 • C2 • C3

CCP-7/16 Series



IEC/EN Category: C1/C2/C3
 Protection: Impedance Matched
 Maximum Operating Voltage: 70, 180, 280V
 Maximum Peak Power: 40, 125, 300W
 Frequency Range: DC–2.5GHz
 Surge Discharge Ratings: I_n : 10kA, I_{max} : 20kA
 Impedance: 50Ω
 Insertion Loss: <0.2dB
 Return Loss: >20dB
 Termination: 7/16 Type (M-F)
 Housing: Bulkhead Installation, Shielded Enclosure
 Compliance: IEC/EN 61643-21

The RayDat CP 7/16 Series of coaxial surge protectors is intended to protect base station RF antenna systems and is suitable for frequencies from DC to 2.5 GHz.

It is designed for bulkhead or in-line installation. The careful design, low capacitance gas discharge arresters and high quality 7/16-type termination connectors ensure a minimum of insertion loss throughout the frequency band.

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

The CP 7/16 coaxial cable protector is designed in accordance with the IEC 61643-21: 2009 standards and regulations.

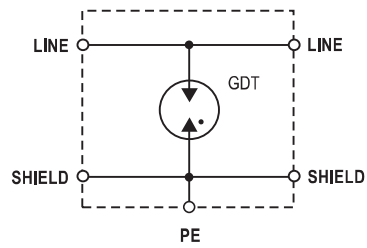
GDT is replaceable. The unit should be solidly mounted to the coaxial feed-through bulkhead, which should in turn present a low impedance path to ground for direct or partial lightning currents.

Technical Data

CP 7/16-MF		70V	180V	280V
Electrical				
Maximum Continuous Operating Voltage	U_c	70V	180V	280V
Maximum Peak Power	P_{max}	40W	125W	300W
C2 Nominal Discharge Current (8/20μs)	I_n		10kA	
Maximum Discharge Current (8/20μs)	I_{max}		20kA	
Residual Voltage at (1kV/μs)	U_{res}	<600V	<700V	<900V
Impedance	Z		50Ω	
Insertion Loss	I_L		<0.2dB	
Return Loss	R_L		>20dB	
Insulation Resistance of Protection	R_{iso}		>10GΩ	
Frequency Range	f_G		0–2.5GHz	
Mechanical				
Temperature Range			-40 °C to +80 °C	
Connection			7/16 Male/Female	
Degree of Protection IEC/EN 60529			IP 20	
Housing Material			Metal	
Order Information				
Order Code		70V	180V	280V
CP 7/16-MF-xxx		800 856	800 857	800 858

RayDat CP 7/16 Series

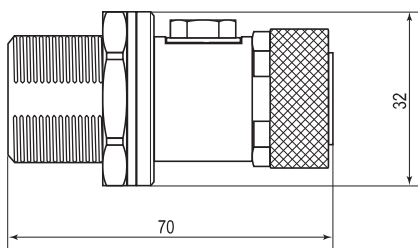
Internal Configuration



Legend

GDT Gas Discharge Tube

Dimensions & Packaging



CP 7/16-MF	70V	180V	280V
Dimensions			
Weight per Unit	218 g		
Packaging Dimensions (Single Unit)	82 x 40 x 40 mm		
Minimum Package Quantity	100 pieces		

In-line SPD for Coaxial & RF Systems

RayDat CP N Series

C1 • C2 • C3

CCP-N Series



IEC/EN Category: C1/C2/C3
 Protection: Impedance Matched
 Maximum Operating Voltage: 70, 180, 280V
 Maximum Peak Power: 40, 125, 300W
 Frequency Range: DC–2.6GHz
 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: In-line Installation, Shielded Enclosure
 Compliance: IEC/EN 61643-21

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

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

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

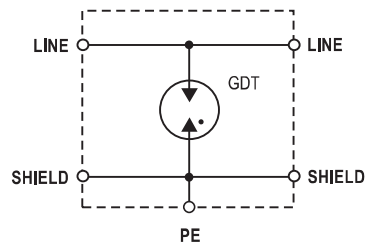
A grounding stud is provided which should be connected to the system ground or coaxial feed-through bulkhead, as directly as possible.

Technical Data

CP-N		70V	180V	280V
Electrical				
Maximum Continuous Operating Voltage	U_c	70V	180V	280V
Maximum Peak Power	P_{max}	40W	125W	300W
C2 Nominal Discharge Current (8/20μs)	I_n		10kA	
Maximum Discharge Current (8/20μs)	I_{max}		20kA	
Residual Voltage at (1kV/μs)	U_{res}	<600V	<700V	<900V
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		0–2.6GHz	
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		70V	180V	280V
CP N-FF-xxx		800 859	800 860	800 861
CP N-MF-xxx		800 862	800 863	800 864

RayDat CP N Series

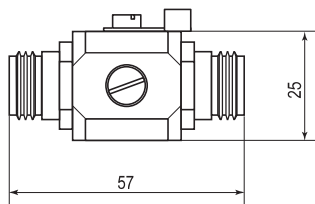
Internal Configuration



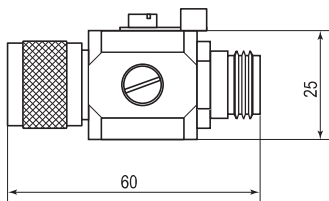
Legend

GDT Gas Discharge Tube

Dimensions & Packaging



CP N-FF



CP N-MF

CP N	CP N-FF-xxx			CP N-MF-xxx		
	70V	180V	280V	70V	180V	280V
Dimensions						
Weight per Unit	138 g			142 g		
Packaging Dimensions (Single Unit)	73 x 30 x 30 mm					
Minimum Package Quantity	100 pieces					

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.

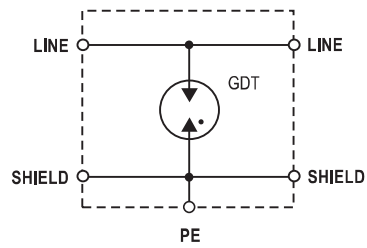
A grounding stud is provided which should be connected to the system ground or coaxial feed-through bulkhead, as directly as possible.

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

RayDat CP N-6G Series

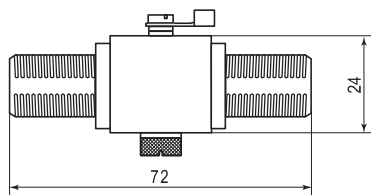
Internal Configuration



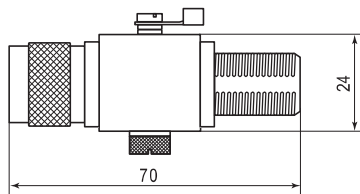
Legend

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 x 30 x 30 mm	
Minimum Package Quantity	100 pieces	

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.

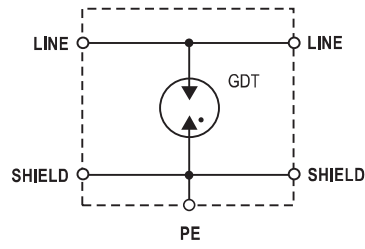
A grounding stud is provided which should be connected to the system ground or coaxial feed-through bulkhead, as directly as possible.

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

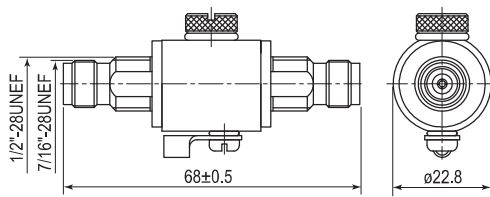
Internal Configuration



Legend

GDT Gas Discharge Tube

Dimensions & Packaging



CP TNC-6G

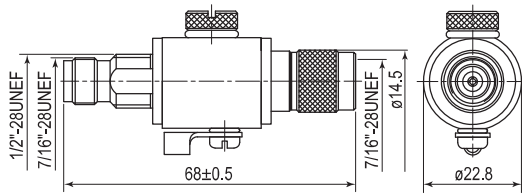
CP TNC-6G-FF

CP TNC-6G-MF

Dimensions

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

CP N-6G-FF



CP N-6G-MF

In-line SPD for Coaxial & RF Systems

RayDat CP UHF Series

C1 • C2 • C3

CCP-UHF Series



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–600 MHz
 Surge Discharge Ratings: I_n : 10 kA, I_{max} : 20 kA
 Impedance: 50 Ω
 Insertion Loss: < 0.4 dB
 Return Loss: > 20 dB
 Termination: UHF Type (F-F, M-F)
 Housing: In-line Installation, Shielded Enclosure
 Compliance: IEC/EN 61643-21

The RayDat CP UHF Series of coaxial surge protectors is intended to protect RF antenna systems and is suitable for frequencies from DC to 600 MHz.

It is designed as an in-line unit allowing ease of installation. The careful design, low capacitance gas discharge arresters and high quality UHF-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 UHF coaxial cable protector is designed in accordance with IEC 61643-21: 2009 standards and regulations.

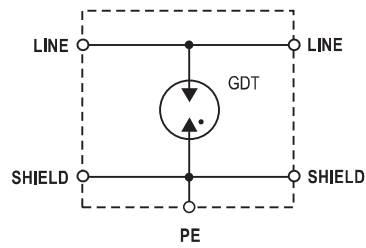
A grounding stud is provided which should be connected to the system ground or coaxial feed-through bulkhead, as directly as possible.

Technical Data

CP UHF		70V	180V	280V
Electrical				
Maximum Continuous Operating Voltage	U_c	70V	180V	280V
Maximum Peak Power	P_{max}	40W	125W	300W
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}	< 600V	< 700V	< 900V
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		0–600 MHz	
Mechanical				
Temperature Range		-40 °C to +80 °C		
Connection		UHF Female/Female	UHF Male/Female	
Degree of Protection IEC/EN 60529		IP 20		
Housing Material		Metal		
Order Information				
Order Code		70V	180V	280V
CP UHF-FF-xxx		800 869	800 870	800 871
CP UHF-MF-xxx		800 872	800 873	800 874

RayDat CP UHF Series

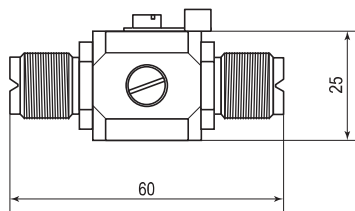
Internal Configuration



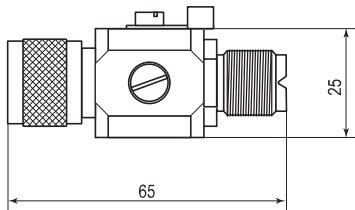
Legend

GDT Gas Discharge Tube

Dimensions & Packaging



CP UHF-FF



CP UHF-MF

CP UHF	CP UHF-FF-xxx			CP UHF-MF-xxx		
	70V	180V	280V	70V	180V	280V
Dimensions						
Weight per Unit	104 g			104 g		
Packaging Dimensions (Single Unit)	62 x 30 x 35 mm					
Minimum Package Quantity	100 pieces					

In-line SPD for Coaxial & RF Systems

RayDat CP F75 Series

C1 • C2 • C3

CCP-F Series



IEC/EN Category: C1/C2/C3

Protection: Impedance Matched

Maximum Operating

Voltage: 70, 180V

Maximum Peak Power: 40, 125W

Frequency Range: DC–2.0GHz

Surge Discharge Ratings: I_n : 10kA, I_{max} : 20kA

Impedance: 75 Ω

Insertion Loss: <0.4dB

Return Loss: >20dB

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

Housing: In-line Installation, Shielded Enclosure

Compliance: IEC/EN 61643-21

The RayDat CP F Series of coaxial surge protectors is intended to protect RF antenna systems and is suitable for frequencies from DC to 2.0GHz. It is eminently suitable for the protection of USA CCTV and CATV systems.

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

Transfer power is 40W to 125W continuous, depending on the coaxial cable protector voltage.

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

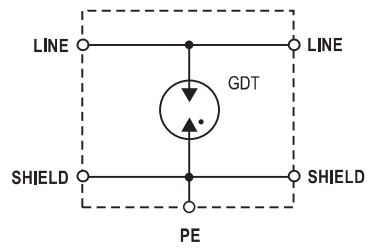
A grounding stud is provided which should be connected to the system ground or coaxial feed-through bulkhead, as directly as possible.

Technical Data

CP F75		70V	180V
Electrical			
Maximum Continuous Operating Voltage	U_c	70V	180V
Maximum Peak Power	P_{max}	40W	125W
C2 Nominal Discharge Current (8/20 μ s)	I_n		10kA
Maximum Discharge Current (8/20 μ s)	I_{max}		20kA
Residual Voltage at (1kV/ μ s)	U_{res}	<600V	<700V
Impedance	Z		75 Ω
Insertion Loss	I_L		<0.4dB
Return Loss	R_L		>20dB
Insulation Resistance of Protection	R_{iso}		>10G Ω
Frequency Range	f_G		0–2.0 GHz
Mechanical			
Temperature Range		-40 $^{\circ}$ C to +80 $^{\circ}$ C	
Connection		F Female/Female	F Male/Female
Degree of Protection IEC/EN 60529		IP 20	
Housing Material		Metal	
Order Information			
Order Code		70V	180V
CP F75-FF-xxx		800 875	800 876
CP F75-MF-xxx		800 877	800 878

RayDat CP F75 Series

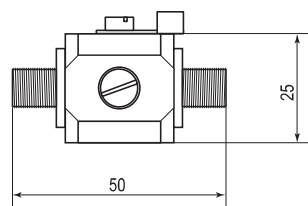
Internal Configuration



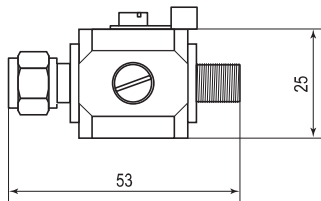
Legend

GDT Gas Discharge Tube

Dimensions & Packaging



CP F75-FF



CP F75-MF

CP F75	CP F75-FF		CP F75-MF	
	70V	180V	70V	180V
Dimensions				
Weight per Unit	80 g		84 g	
Packaging Dimensions (Single Unit)	73 x 30 x 30 mm			
Minimum Package Quantity	100 pieces			

In-line SPD for Coaxial & RF Systems

RayDat CP TV75 Series

C1 • C2 • C3

CCP-TV Series



IEC/EN Category: C1/C2/C3
 Protection: Impedance Matched
 Maximum Operating Voltage: 70, 180V
 Maximum Peak Power: 40, 125W
 Frequency Range: DC–2.0GHz
 Surge Discharge Ratings: I_n : 10kA, I_{max} : 20kA
 Impedance: 75 Ω
 Insertion Loss: <0.4 dB
 Return Loss: >20 dB
 Termination: TV Type (F-F, M-F)
 Housing: In-line Installation, Shielded Enclosure
 Compliance: IEC/EN 61643-21

The RayDat CP TV Series of coaxial surge protectors is intended to protect RF antenna systems terminating in TV-type connections and is suitable for frequencies from DC to 2.0GHz. It is eminently suitable for the protection of European CCTV and CATV systems.

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

Transfer power is 40W to 125W continuous, depending on the coaxial cable protector voltage.

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

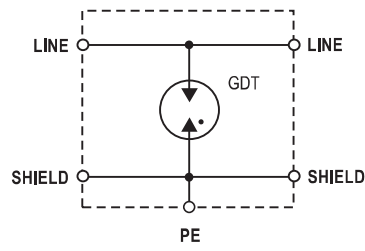
A grounding stud is provided which should be connected to the system ground or coaxial feed-through bulkhead, as directly as possible.

Technical Data

CP TV75		70V	180V
Electrical			
Maximum Continuous Operating Voltage	U_c	70V	180V
Maximum Peak Power	P_{max}	40W	125W
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}	<600V	<700V
Impedance	Z	75 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	0–2.0 GHz	
Mechanical			
Temperature Range		-40 °C to +80 °C	
Connection		TV Female/Female	TV Male/Female
Degree of Protection IEC/EN 60529		IP 20	
Housing Material		Metal	
Order Information			
Order Code		70V	180V
CP TV75-FF-xx		800 879	800 880
CP TV75-MF-xx		800 881	800 882

RayDat CP TV75 Series

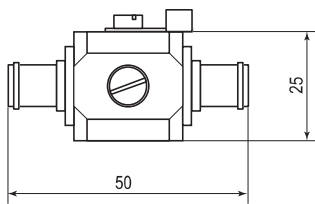
Internal Configuration



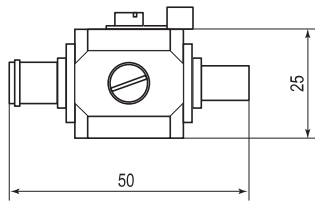
Legend

GDT Gas Discharge Tube

Dimensions & Packaging



CP TV75-FF



CP TV75-MF

CP TV75	CP TV75-FF-xxx		CP TV75-MF-xxx	
	70V	180V	70V	180V
Dimensions				
Weight per Unit	80 g		82 g	
Packaging Dimensions (Single Unit)	73 x 30 x 30 mm			
Minimum Package Quantity	100 pieces			

In-line SPD for High Frequency Coaxial & RF Systems

RayDat CP L/4-7/16 Series

C1 • C2 • C3

CCP-L/4-7/16 Series



IEC/EN Category: C1/C2/C3
 Protection: Impedance Matched
 Maximum Peak Power: 500W
 Frequency Range: 865–965 MHz, 1.7–1.95 GHz
 Surge Discharge Ratings: I_n : 15 kA, I_{max} : 30 kA
 Impedance: 50 Ω
 Insertion Loss: < 0.2 dB
 Return Loss: > 20 dB
 Termination: L/4-7/16 Type (F-F, M-F)
 Housing: Bulkhead Installation, Shielded Enclosure
 Compliance: IEC/EN 61643-21

The RayDat CP L/4-7/16 Series of coaxial surge protectors is intended to protect RF antenna systems and is suitable for frequencies from DC to 865–965 MHz, 1.7–1.95 GHz.

It is designed for a bulkhead or in-line installation. The careful design, low intermodulation and high quality 7/16-type termination connectors ensures a minimum of insertion loss throughout the frequency band.

Transfer power is 500W continuous.

The CP L/4-7/16 coaxial cable protector is designed in accordance with IEC 61643-21: 2009 standards and regulations.

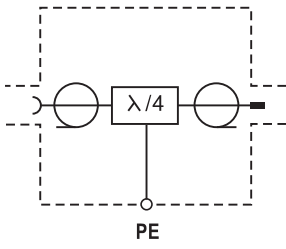
A grounding stud is provided which should be connected to the system ground or coaxial feed-through bulkhead, as directly as possible.

Technical Data

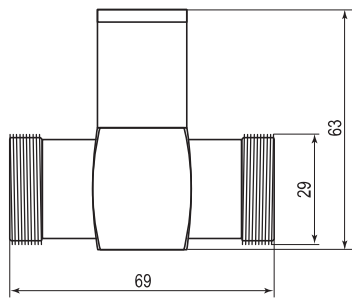
CP L/4-7/16	CP L/4-7/16-FF	CP L/4-7/16-MF
Electrical		
Maximum Peak Power	P_{max}	500W
C2 Nominal Discharge Current (8/20 μ s)	I_n	15 kA
Maximum Discharge Current (8/20 μ s)	I_{max}	30 kA
Voltage Protection Level	U_p	< 100V
Impedance	Z	50 Ω
Insertion Loss	I_L	< 0.2 dB
Return Loss	R_L	> 20 dB
Frequency Range	f_G	865–965 MHz, 1.7–1.95 GHz
Mechanical		
Temperature Range		-40 °C to +80 °C
Connection	L/4-7/16 Female/Female	L/4-7/16 Male/Female
Degree of Protection IEC/EN 60529		IP 20
Housing Material		Metal
Order Information		
Order Code		
CP L/4-7/16-XX	800 884	800 883

RayDat CP L/4-7/16 Series

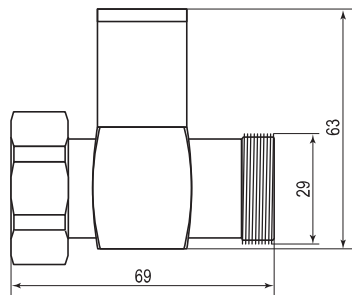
Internal Configuration



Dimensions & Packaging



CP L/4-7/16-FF



CP L/4-7/16-MF

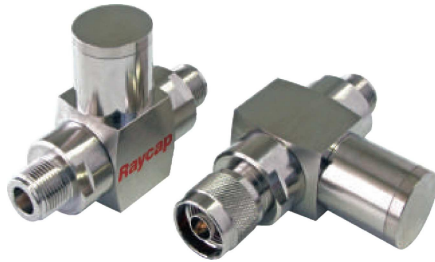
CP L/4-7/16	CP L/4-7/16-FF	CP L/4-7/16-MF
Dimensions		
Weight per Unit	320g	312g
Packaging Dimensions (Single Unit)	73 x 35 x 70 mm	
Minimum Package Quantity	100 pieces	

In-line SPD for High Frequency Coaxial & RF Systems

RayDat CP L/4-N Series

C1 • C2 • C3

CCP-L/4-N Series



IEC/EN Category: C1/C2/C3

Protection: Impedance Matched

Maximum Peak Power: 500W

Frequency Range: 865–965 MHz, 1.7–1.95 GHz

Surge Discharge Ratings: I_n : 15 kA, I_{max} : 30 kA

Impedance: 50 Ω

Insertion Loss: < 0.2 dB

Return Loss: > 20 dB

Termination: L/4-N Type (F-F, M-F)

Housing: Bulkhead Installation,
Shielded Enclosure

Compliance: IEC/EN 61643-21

The RayDat CP L/4-N Series of coaxial surge protectors is intended to protect RF antenna systems and is suitable for frequencies from DC to 865–965 MHz, 1.7–1.95 GHz.

It is designed for bulkhead or in-line installation. The careful design, low intermodulation and high quality N-type termination connectors ensures a minimum of insertion loss throughout the frequency band.

Transfer power is 500W continuous.

The CP L/4-N coaxial cable protector is designed in accordance with IEC 61643-21: 2009 standards and regulations.

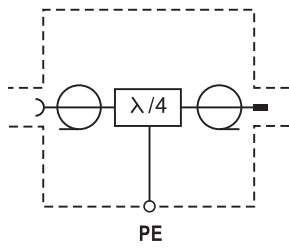
A grounding stud is provided which should be connected to the system ground or coaxial feed-through bulkhead, as directly as possible.

Technical Data

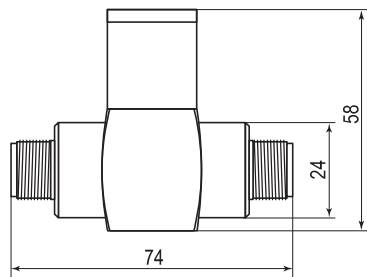
CP L/4-N	CP L/4-N-FF	CP L/4-N-MF
Electrical		
Maximum Peak Power	P_{max}	500W
C2 Nominal Discharge Current (8/20 μ s)	I_n	15 kA
Maximum Discharge Current (8/20 μ s)	I_{max}	30 kA
Voltage Protection Level	U_p	< 100V
Impedance	Z	50 Ω
Insertion Loss	I_L	< 0.2 dB
Return Loss	R_L	> 20 dB
Frequency Range	f_G	865–965 MHz, 1.7–1.95 GHz
Mechanical		
Temperature Range	-40 °C to +80 °C	
Connection	L/4-N Female/Female	L/4-N Male/Female
Degree of Protection IEC/EN 60529	IP 20	
Housing Material	Metal	
Order Information		
Order Code		
CP L/4-N-XX	800 886	800 885

RayDat CP L/4-N Series

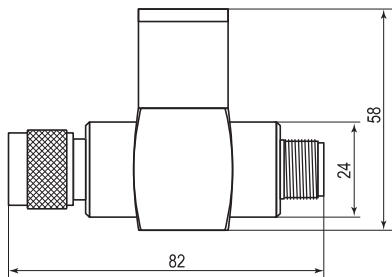
Internal Configuration



Dimensions & Packaging



CP L/4-N



CP L/4-N-FF

CP L/4-N	CP L/4-N-FF	CP L/4-N-MF
Dimensions		
Weight per Unit	282 g	266 g
Packaging Dimensions (Single Unit)	77 x 30 x 60 mm	
Minimum Package Quantity	100 pieces	