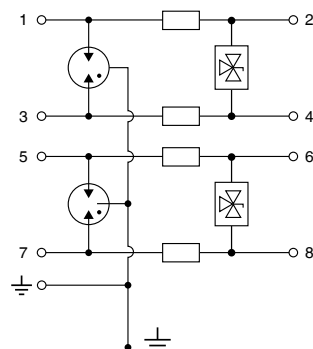


DATA SHEET

Modular SPD for Two Pair RayDat SPI-4 Series D1 • C1 • C2 • C3



IEC/EN Category: D1/C1/C2/C3
Surge Discharge Ratings: I_n : 10kA, I_{max} : 20kA, I_{imp} : 2.5kA
Voltages: 30 V DC
Frequency Range: 30 MHz, 10 MHz
Housing: Modular Design
Compliance: IEC/EN 61643-21
Configuration:



Technical Data

SPI-4 Series

30

Electrical

Lines Protected	2 (4 Conductors)	
Nominal Operating Voltage (DC)	U_n	30V
Maximum Continuous Operating Voltage (DC)	U_c	33V
Rated Load Current at 25°C	I_L	1 A
C2 Nominal Discharge Current (8/20µs)	I_n	10 kA
Maximum Discharge Current (8/20µs)	I_{max}	20 kA
D1 Impulse Current (10/350µs)	I_{imp}	2.5 kA
Total Impulse Current (10/350µs)	I_{imp}	10 kA
Residual Voltage at 5 kA (8/20µs)	(Line-Line) U_{res}	< 80V
Rated Spark Overvoltage	(Line-Ground)	184-276V
	(Line-Line)	36-44 V
Response Time Overvoltage Protection	(Line-Line) t_A	< 1 ns
	(Line-Ground)	< 100ns
Insulation Resistance of the Protection	(Line-Ground) R_{iso}	> 1 GΩ/100V
	(Line-Line)	≥ 33 MΩ
Serial Resistance per Path	R	1.6-2.0Ω
Transverse Capacitance	(Line-Line) C	50pF
	(Line-Ground)	5pF
Cut-off Frequency	f_G	30 MHz

Mechanical

Temperature Range	-40 °F to +176 °F [-40 °C to +80 °C]
Terminal Cross Section Multi-strand (max.)	12 AWG
	4 mm², 2.5 mm² Q Version
Terminal Screw Torque	4.5 lbf-in [0.5 Nm]
Degree of Protection IEC/EN 60529	IP 20 (built-in)
Housing Material	Thermoplastic; Grey; Extinguishing Degree V-0
Mounting IEC/EN 60715	35mm DIN Rail

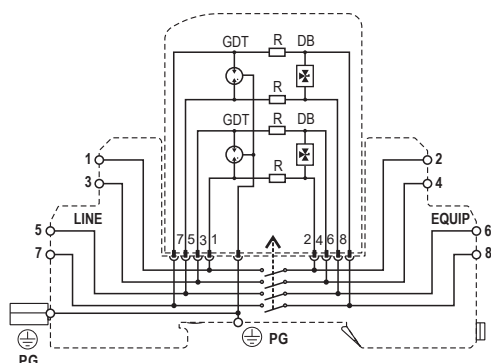
Order Information

Order Code	30
SPI-4-xxx	7085.69
SPI-4-xxxM (module)	7085.70

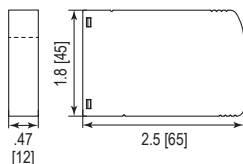
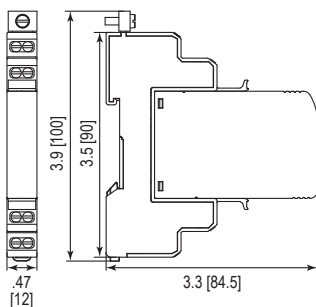
RayDat SPI-4 Series

Legend

DB Diode Block
GDT Gas Discharge Tube
PG Protective Grounding
R Resistor



Dimensions & Packaging



SPI-4 Series

30

Dimensions

Weight per Unit	2.40 oz [68 g]
Dimensions DIN 43880	2/3 TE
Packaging Dimensions (Single Unit)	3.4 x .59 x 4" [87 x 15 x 102 mm]
Minimum Package Quantity	15 pieces

SPI-4-xxM Series

30

Dimensions

Weight per Unit	1.05 oz [30 g]
Packaging Dimensions (Single Unit)	3.4 x .59 x 4" [87 x 15 x 102 mm]
Minimum Package Quantity	15 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.
G29-01-046 201204