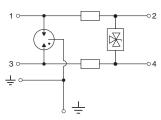
DATA SHEET Modular SPD for Two Pair **RayDat SPI-2 Series** D1 • C1 • C2 • C3



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: 30MHz, 10MHz Housing: Modular Design Compliance: IEC/EN 61643-21

Configuration:









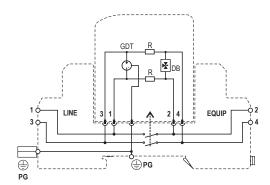


Technical Data

SPI-2 Series		30
Electrical		
Lines Protected		1 (2 Conductors)
Nominal Operating Voltage (DC)	U _n	30 V
Maximum Continuous Operating Voltage (DC)	U _c	33V
Rated Load Current at 25°C	IL	1 A
C2 Nominal Discharge Current (8/20 µs)	I _n	10kA
Maximum Discharge Current (8/20 µs)	I _{max}	20kA
D1 Impulse Current (10/350 µs)	I _{imp}	2.5 kA
Total Impulse Current (10/350 µs)	l _{imp}	5kA
Residual Voltage at 5 kA (8/20 µs) (Line-Line)		<80V
Rated Spark Overvoltage (Line-Ground)		184-276V
(Line-Line)		36-44V
Response Time Overvoltage Protection (Line-Line)	t _A	<1 ns
(Line-Ground)		<100 ns
Insulation Resistance of the Protection (Line-Ground)	R _{iso}	> 1 GΩ/100 V
(Line-Line)		≥ 33 MΩ
Serial Resistance per Path	R	1.6-2.0Ω
Transverse Capacitance (Line-Line)	С	50 pF
(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 mm ² , 2.5 mm ² Q Version
Terminal Screw Torque		4.5 lbf-in [0.5 Nm]
Degree of Protection IEC/EN 60529		IP20 (built-in)
Housing Material		Thermoplastic; Grey; Extinguishing Degree V-0
Mounting IEC/EN 60715		35 mm DIN Rail
Order Information		
Order Code		30
SPI-2-xxx		7085.67
SPI-2-xxxM (module)		7085.68



RayDat SPI-2 Series



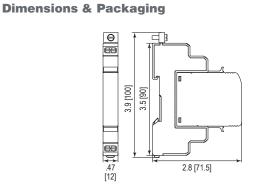
Legend

DB Diode Block

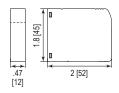
GDT Gas Discharge Tube

PG Protective Grounding

R Resistor



30
1.90 oz [54 g]
2/3 TE
$3.4 \times .59 \times 4$ " [87 × 15 × 102 mm]
15 pieces



SPI-2-xxxM Series	30
Dimensions	
Weight per Unit	.84 oz [24 g]
Packaging Dimensions (Single Unit)	$3.4 \times .59 \times 4$ " [87 × 15 × 102 mm]
Minimum Package Quantity	15 pieces

inches [mm]

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



