DATA SHEET

Modular SPD for Two Pair

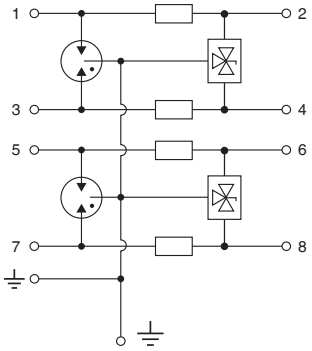
RayDat SLH-4 Series

D1•C1•C2•C3

***UL Listed**

IEC/EN Category: D1/C1/C2/C3
Surge Discharge Ratings: I_n: 10 kA, I_{max}: 20 kA, I_{imp}: 5 kA
Voltages: 5, 12, 15, 24, 30*, 48, 60 V DC
Frequency Range: 30 MHz
Housing: Modular Design
Compliance: IEC/EN 61643-21
UL 497B 4th Edition

Configuration:



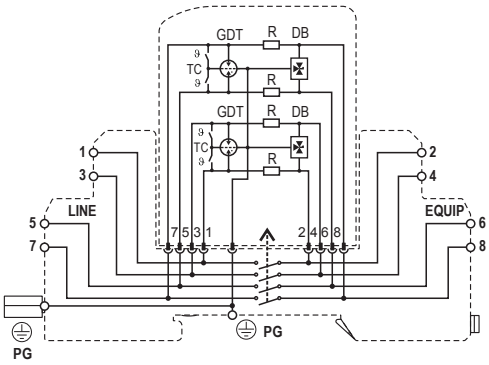
Technical Data

SLH-4 Series			5	12	15	24	30*	48	60
Electrical									
Lines Protected						2 (4 Conductors)			
Nominal Operating Voltage (DC)		U_n	5 V	12 V	15 V	24 V	30 V	48 V	60 V
Maximum Continuous Operating Voltage (DC)		U_c	6 V	15 V	18 V	28 V	33 V	52 V	64 V
Rated Load Current at 25°C		I_L				1 A			
C2 Nominal Discharge Current (8/20 µs)		I_n				10 kA			
Maximum Discharge Current (8/20 µs)		I_{max}				20 kA			
D1 Impulse Current (10/350 µs)		I_{imp}				5 kA			
Residual Voltage at 5 kA (8/20 µs)		U_{res}	< 22 V	< 42 V	< 48 V	< 70 V	< 80 V	< 140 V	< 160 V
Rated Spark Overvoltage	(Line-Ground)		7-10 V	17-21 V	21-25 V	31-37 V	36-44 V	57-69 V	68-84 V
	(Line-Line)		7-10 V	17-21 V	21-25 V	31-37 V	36-44 V	57-69 V	68-84 V
Response Time Overvoltage Protection		t_A				< 1 ns			
Thermal Protection						Yes			
Insulation Resistance of the Protection		R_{iso}	≥ 6 KΩ	≥ 15 MΩ	≥ 18 MΩ	≥ 28 MΩ	≥ 33 MΩ	≥ 52 MΩ	≥ 64 MΩ
Serial Resistance per Path		R				1.6-2.0 Ω			
Transverse Capacitance		C				50 pF			
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						35 mm DIN Rail			
Order Information									
Order Code			5	12	15	24	30*	48	60
SLH-4-xxx			7086.47	7086.48	7086.49	7086.50	7082.78	7086.51	7086.52
SLH-4-xxxQ (Quick Connect Terminals)			7085.13	7085.14	7085.15	7085.16	7085.17	7085.18	7085.19
SLH-4-xxxM (module)			7086.54	7086.55	7086.56	7086.57	7082.79	7086.58	7086.59

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

RayDat SLH-4 Series

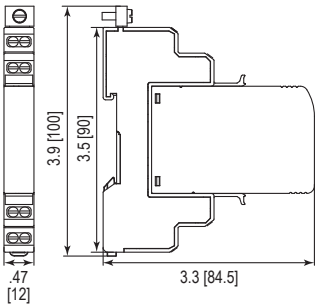
Internal Configuration



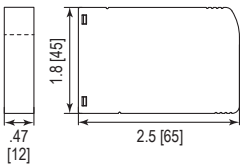
Legend

DB	*Diode Block*
GDT	*Gas Discharge Tube*
PG	*Protective Grounding*
R	*Resistor*
TC	*Thermo-clip*

Dimensions & Packaging

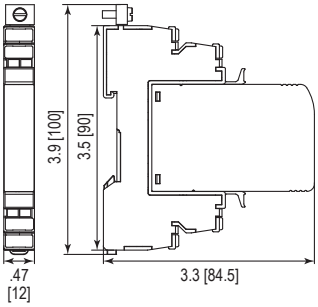


SLH-4 Series	5	12	15	24	30	48	60
Dimensions							
Weight per Unit	2.32 oz [66 g]						
Dimensions DIN 43880	2/3 TE						
Packaging Dimensions (Single Unit)	3.4 × .59 × 4" [87 × 15 × 102 mm]						
Minimum Package Quantity	15 pieces						



SLH-4-xxxM Series	5	12	15	24	30	48	60
Dimensions							
Weight per Unit	1.05 oz [30 g]						
Packaging Dimensions (Single Unit)	3.4 × .59 × 4" [87 × 15 × 102 mm]						
Minimum Package Quantity	15 pieces						

Quick Connect Terminals



SLH-4-xxxQ Series	5	12	15	24	30	48	60
Dimensions							
Weight per Unit	2.32 oz [66 g]						
Dimensions DIN 43880	2/3 TE						
Packaging Dimensions (Single Unit)	3.4 × .59 × 4" [87 × 15 × 102 mm]						
Minimum Package Quantity	15 pieces						

inches
[mm]

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RoHS COMPLIANT

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