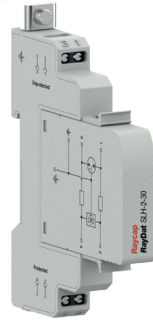
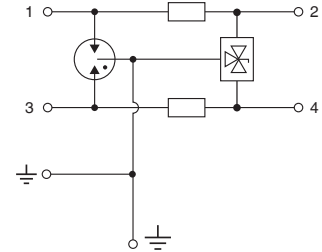


# DATA SHEET

## Modular SPD for Single Pair **RayDat SLH-2-110** D1 • C1 • C2 • C3



IEC/EN Category: D1/C1/C2/C3  
Surge Discharge Ratings:  $I_n$ : 10 kA,  $I_{max}$ : 20 kA,  $I_{imp}$ : 2.5 kA  
Voltages: 110V DC  
Frequency Range: 30 MHz  
Housing: Modular Design  
Compliance: IEC/EN 61643-21  
Configuration:



### Technical Data

SLH-2-xxx

110

#### Electrical

Lines Protected		1 (2 Conductors)
Nominal Operating Voltage (DC)	$U_n$	110V
Maximum Continuous Operating Voltage (DC)	$U_c$	170V
Rated Load Current at 25°C	$I_L$	1 A
C2 Nominal Discharge Current (8/20 $\mu$ s)	$I_n$	10 kA
Maximum Discharge Current (8/20 $\mu$ s)	$I_{max}$	20 kA
D1 Impulse Current (10/350 $\mu$ s)	$I_{imp}$	2.5 kA
Residual Voltage at 5 kA (8/20 $\mu$ s)	$U_{res}$	< 450V
Rated Spark Overvoltage	(Line-Ground) (Line-Line)	184-264V 184-264V
Response Time Overvoltage Protection	$t_A$	< 1 ns
Thermal Protection		Yes
Insulation Resistance of the Protection	$R_{iso}$	$\geq 170 M\Omega$
Serial Resistance per Path	$R$	1.6-2.0 $\Omega$
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 mm <sup>2</sup> , 2.5 mm <sup>2</sup> 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

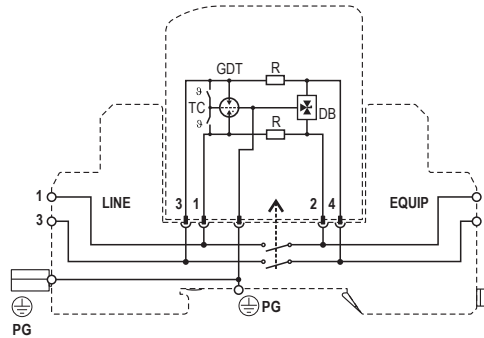
Order Code		110
SLH-2-xxx		7086.39
SLH-2-xxxQ (Quick Connect Terminals)		7085.12
SLH-2-xxxM (module)		7086.46

# RayDat SLH-2-110

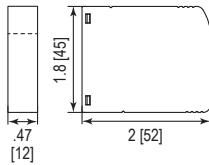
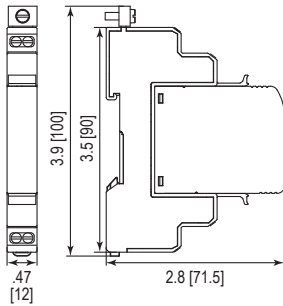
## Internal Configuration

### Legend

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



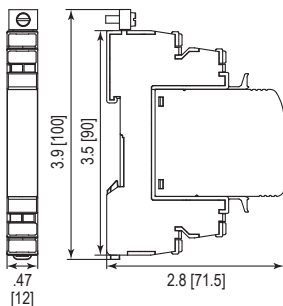
## Dimensions & Packaging



SLH-2-xxx	110
<b>Dimensions</b>	
Weight per Unit	1.83 oz [52 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

SLH-2-xxxM Series	110
<b>Dimensions</b>	
Weight per Unit	.84 oz [24 g]
Packaging Dimensions (Single Unit)	3.4 x .59 x 4" [87 x 15 x 102 mm]
Minimum Package Quantity	15 pieces

## Quick Connect Terminals



SLH-2-xxxQ Series	110
<b>Dimensions</b>	
Weight per Unit	1.90 oz [54 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

inches  
[mm]

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