

# PD1041

広範囲動作温度対応 サージ保護デバイス-RJ45



## 概要

EtherWANの広範囲温度対応サージ保護デバイスPD1041はEtherWAN及び他のネットワークデバイスをイーサネットスイッチをサージダメージから保護するために設計されました。産業用の設計でどのような過酷な場所でも設置でき、お客様の貴重なネットワーク設備を保護します。

EtherWAN — "When Connectivity is Crucial."

## 特長

### + 対サージ保護対策

RJ45 或いは2ワイヤターミナルブロックによって Pair to Pair の保護を提供します。

### + 簡単設置

DIN-レールと卓上据え置き対応。

### + 広範囲動作温度

-40度から75度までの広範囲動作温度サポート。

### + 10/100BASE-T、ギガビットと PoE 製品とも適合

データと PoE パワーと一緒に通過します。

## 仕様

### + 電気特性

Maximum continuous operating voltage UC

≤3.3VDC

Maximum continuous voltage UC (Wire-Wire)

≤3.3VDC ( $\pm 60$ VDC/PoE+)

Maximum continuous voltage UC (Wire-Ground)

≤180VDC

Nominal current IN

≤1.5A (25°C)

Operating effective current IC at UC

≤1μA

Residual current IPE

≤8μA

Nominal discharge surge current In (8/20) μs

(Core-Core)

100A

Nominal discharge surge current In (8/20) μs

(Core-Earth)

2kA (per signal pair)

Total surge current (8/20) μs

10kA

Nominal pulse current Ian (10/700) μs (Core-Core)

≤40A

Nominal pulse current Ian (10/700) μs (Core-Earth)

160A

Output voltage limitation at 1kV/μs (Core-Core)

spike

≤85V (PoE)

Output voltage limitation at 1kV/μs (Core-Earth)

spike

≤700V

Output voltage limitation at 1kV/μs (Core-Core)

static

≤9V

Output voltage limitation at 1kV/μs (Core-Earth)

static

≤700V

Output voltage limitation at 100V/s (Core-Core)

≤9V

Output voltage limitation at 100V/s (Core-Earth)

≤300V

Output voltage limitation at 100V/ $\mu$ s (Core-Core)  
 $\leq 9V$

Output voltage limitation at 100V/ $\mu$ s (Core-Earth)  
 $\leq 600V$

Residual voltage at IN, (Conductor-Conductor)  
 $\leq 15V$   
 $\leq 100V$  (PoE)

Voltage protection level Up (Core-Core)  
 $\leq 9V$  (B2-1kV/25A)  
 $\leq 100V$  (B2-1kV/25A-PoE)  
 $\leq 15V$  (500V/100A)

Voltage protection level Up (Core-Earth)  
 $\leq 600V$   
 $\leq 700V$  (C2-4kV/2kA)

Response time tA (Core-Core)  
 $\leq 1ns$

Response time tA (Core-Earth)  
 $\leq 100ns$

Input attenuation aE, sym.  
 $1dB$  ( $\leq 250MHz$ )

Near-end crosstalk attenuation  
 $\leq 35dB$  (At 250MHz/100 $\Omega$ )

Cut-off frequency fg (3dB), sym. in 100 Ohm system  
 $> 500MHz$

Capacity (Core-Core)  
typ. 5pF ( $f=1MHz/VR=0V$ )

Capacity (Core-Earth)  
typ. 2pF ( $f=1MHz/VR=0V$ )

Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)  
B2 (1kV/25A)

Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)  
B2 (4kV/100A)  
C2 (4kV/2kA)  
D1 (1kA)

## ⊕ 物理仕様

**筐体**  
Aluminum Case  
IP20

**寸法**  
30 x 62.5 x 100mm (W x H x D)  
(1.18" x 2.5" x 3.8")

**重量**  
184g ±5%  
**取付方法**  
DIN-Rail

**接続**  
RJ45 Connector

## ⊕ 環境条件

**使用温度範囲**  
-40 to 75°C (-40 to 167°F)

**保存温度範囲**  
-40 to 85°C (-40 to 185°F)

**使用湿度範囲**  
5% to 95% (結露なきこと)

## ⊕ 信頼性認証

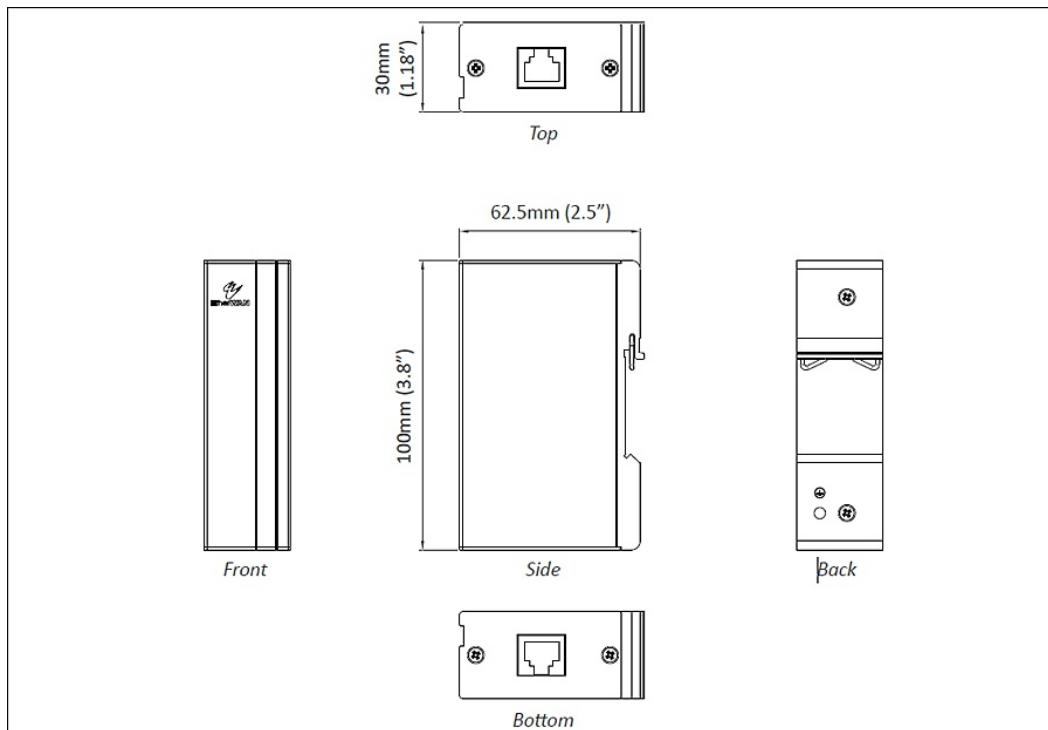
**ISO**  
Manufactured in an ISO 9001 facility

**Safety**  
UL 497B

**EMI**  
CE  
FCC Part 15 Class B  
VCCI

**Industrial Compliance**  
IEC 61643-21

## 寸法図



## 製品型番

### 型番

PD1041 Hardened Surge Protection Device – RJ45

\* Cat.6 ケーブルを推奨します。



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