

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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The figure shows the PT-IQ-1x2-24DC-UT version

Surge protection, consisting of protective plug and base element, with integrated multi-stage status indicator on the module for three signal wires with common reference potential. For HF applications and telecommunications interfaces without supply voltage (up to 90 Mbps).



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	135.4 GRM
Custom tariff number	85363010
Country of origin	Germany

#### Technical data

#### **Dimensions**

Height	91.1 mm
Width	17.7 mm
Depth	77.5 mm
Horizontal pitch	1 Div.

#### Ambient conditions

Ambient temperature (operation)	-40 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Degree of protection	IP20

#### General

Housing material	PA 6.6
Inflammability class according to UL 94	V-0
Color	jet black RAL 9005
Standards for cearances and creepage distances	IEC 60664-1
Mounting type	DIN rail: 35 mm

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## Technical data

#### General

Туре	DIN rail module, two-section, divisible
Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield- Earth Ground

#### Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U <sub>N</sub>	12 V DC
Maximum continuous voltage U <sub>C</sub>	15 V DC
	10 V AC
Nominal current I <sub>N</sub>	600 mA (40°C)
Operating effective current I <sub>C</sub> at U <sub>C</sub>	≤ 100 μA (per path)
Residual current I <sub>PE</sub>	≤ 100 µA (per path)
Nominal discharge current I <sub>n</sub> (8/20) µs (Core-Core)	5 kA
	10 kA
Nominal discharge current I <sub>n</sub> (8/20) µs (Core-Earth)	5 kA
	10 kA
Pulse discharge current I <sub>imp</sub> (10/350) μs (core-ground)	2.5 kA
Pulse discharge current I <sub>imp</sub> (10/350) μs (core-GND)	2.5 kA
Total surge current (8/20) μs	20 kA
Impulse discharge current (10/350)#μs, peak value I <sub>imp</sub>	2.5 kA
Voltage protection level U <sub>p</sub> (core-core)	≤ 90 V (C1 - 1 kV/500 A)
	≤ 145 V (C2 - 10 kV / 5 kA)
	≤ 40 V (C3 - 25 A)
	≤ 40 V (C3 - 50 A)
Voltage protection level $U_p$ (core-ground)	≤ 90 V (C1 - 1 kV/500 A)
	≤ 145 V (C2 - 10 kV / 5 kA)
	≤ 40 V (C3 - 25 A)
	≤ 40 V (C3 - 50 A)
Voltage protection level $U_p$ static (core-core)	≤ 55 V (C1 - 1 kV/500 A)
Voltage protection level U <sub>p</sub> static (core-ground)	≤ 55 V (C1 - 1 kV/500 A)
Response time tA (Core-Core)	≤ 1 ns
Response time tA (Core-Earth)	≤ 1 ns
Input attenuation aE, sym.	typ. 0.3 dB ( $\leq$ 10 MHz/150 $\Omega$ )
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	typ. 60 MHz



## Technical data

#### Protective circuit

Capacity (Core-Core)	typ. 30 pF
Capacity (Core-GND)	typ. 30 pF
Resistance in series	1.2 Ω ±5 %
Surge protection fault message	Optical, multi-stage
Max. required back-up fuse	600 mA (FF)
Impulse durability (conductor-conductor)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C2 - 5 kA
	C3 - 50 A
	D1 - 2.5 kA
Impulse durability (conductor-ground)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C2 - 5 kA
	C3 - 50 A
	D1 - 2,5 kA
Pulse reset time (conductor-conductor)	≤ 15 ms
Pulse reset time (conductor-ground)	≤ 15 ms

#### Connection data

Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.5 Nm
Stripping length	8 mm
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12

## Connection, equipotential bonding

Connection method	NS 35 DIN rail or connection terminal block



## Classifications

#### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807

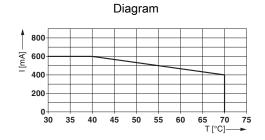
#### **ETIM**

ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

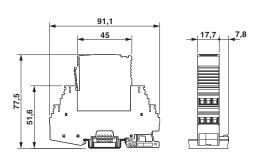
## UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

## Drawings

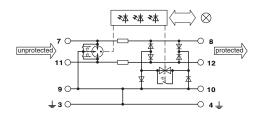


#### Dimensional drawing





#### Circuit diagram



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