S05-2K5-RJ45L(RJ45LK)

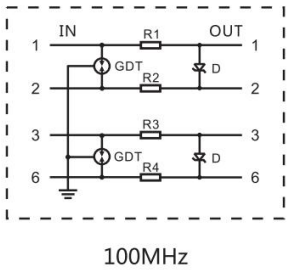
scope of application

Primarily designed for computer network components including routers, Power over Ethernet (POE) devices, servers, workstations, and other electronic systems, as well as network-connected video surveillance equipment. It effectively prevents permanent damage or transient interruptions caused by induced overvoltages, overcurrents, and transient surge voltages from lightning strikes or industrial noise, ensuring reliable signal transmission.

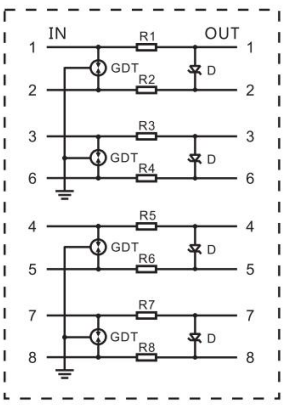
technical parameter

model	S05-2K5-RJ45L(RJ45LK)
SPD basis: GB/T18802.21/IEC61643-21	C2
nominal voltage （Un）	5V
Maximum continuous operating voltage (Uc)	8V
Nominal discharge current (8/20μs) [In]	2.5KA
Voltage protection level (Up) [line to line]	45V
Voltage protection level (Up) [line to ground]	500V
transmission speed	100MHz/1000MHz
insertion loss	≤0.5dB
response time （t）	≤1ns
Working temperature range (Tu)	-40℃～+70℃
protective circuit	Line 1, 2, 3, 6 / Line 1, 2, 3, 4, 5, 6, 7, 8
Network devices	100MHz Ethernet device, 1000MHz Ethernet device, or POE device
maximum load current	0.4A per pair of wires
cross-sectional area of grounding conductor	2.5mm² multi-strand wire
way to install	35mm DIN rail (optional), compliant with EN 60715
Shell material	black aluminum alloy
installation site	indoor
levels of protection	IP20
size	-
relative humidity	≤95% No condensation

schematic diagram

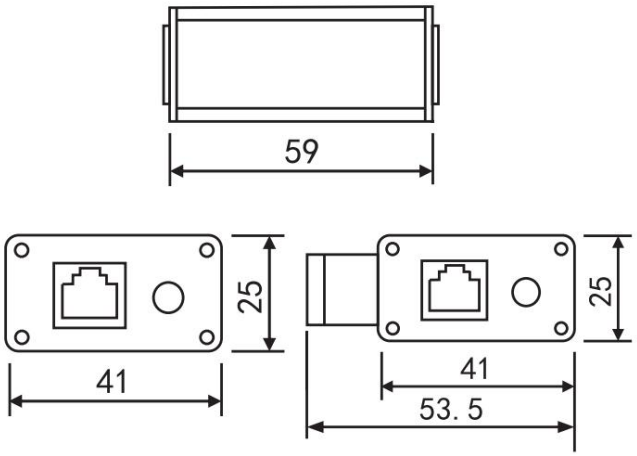


100MHz



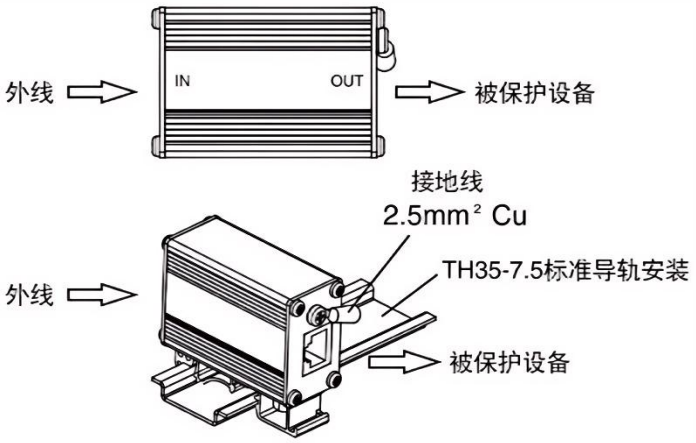
1000MHz

outline dimensional drawing



hookup

1. The surge arrester is connected in series between the signal channel and the protected equipment.
2. Ensure reliable connection between the surge arrester and the lightning protection system's earthing equalization ring, with the grounding wire length being
   less than 0.5 m
3. Lightning arresters require no special maintenance. If system operation fails and the lightning arrester is suspected to be the cause, Removable surge arrester can be checked after removal. If restored to the pre-use state, the system will recover.
   If the condition is normal, it indicates the lightning arrester is damaged and should be replaced.



Disclaimer

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.