LAN-CAT5e-P+ II (R)50

Gigabit Ethernet / LAN Protector Against Lightning and Other Over Voltage Surges

Surge Arrester / Discharge Grounding type

Meets IEC 61643-21, 61000-4-5 Category C2 & D1 Impulse Requirements

For Power Over Ethernet Plus (PoE+) Applications

High Speed 1000BASE-T (1000Mbps Data Rate)

CAT5 and CAT5e Compatible

All Pins Individually Protected

35mm DIN Rail or Surface Mountable

Deterioration Checking (tester sold separately)



RoHS Compliant and UL 497B Listed (File E140906)

Electrical Characteristics	
Data Rates / Protocols	2.5Gbase-T (IEEE Std 802.3bz) / GbE-1000BASE-T (IEEE 802.3ab)
	100BASE-TX (IEEE 802.3u) / 10BASE-T (IEEE 802.3)
	PoE (Power Over Ethernet / IEEE802.3af - Alt. A & B) (60W max)
	PoE+ (Power Over Ethernet Plus / IEEE802.3at - Alt. A & B)(60W max)
Transmission Band	DC to 100MHz
Attenuation	≤ 1.0dB (DC to 100MHz)
Near-end Crosstalk Attenuation	> 32.3dB (Between each line)
Bit Error Rate	< 0.01%
Maximum Continuous Operating Voltage (UC)	60VDC (Between each line and Earth)
Current Rating (In)	2400mA (600mA per pair)
Technology Type	Gas Discharge Tube
DC Breakdown Voltage	160V ~ 300V (100V/s) (Between each line and Earth)
Impulse Voltage Protection Level (UP)	≤ 500V (1.2/50us 10kV) (Between each line and Earth)
Impulse Durability IEC	IEC 61643-21 Cat. C2 (8/20us): 5kA (10 times)
	IEC 61643-21 Cat. D1 (10/350us): 2.5kA (2 times)
AC Durability	5 times (at 50Hz, 0.5A, 1 second duration)
Impulse Reset	≤ 30ms (60VDC, 600mA) (Between PoE power supply lines)
Insulation Resistance	> 1,000MΩ (60VDC) (Between each line and Earth)
Deterioration Diagnosis (optional tester unit required)	LED ON: Unit Working LED OFF: Replace Unit

Mechanical Characteristics	
Connector Type	RJ45 (8P8C - 8 position 8 conductor)
Mounting Method	35mm DIN Rail, Surface, or Clip (opt.)
Grounding	Thru DIN Rail or M3 Screw
Weight	55g (1.94oz)
Case Material	ABS Plastic, UL94 V-0 Flame Rating

Environmental Characteristics (indoor)	
Operating Temperature Range	-40°C to +85°C
	-40°F to +185°F
Relative Humidity	≤ 90% (non-condensing)



(Optional Clip)

Applications:

Power Over Ethernet Plus (PoE+) Systems

Remote Networking Equipment

Routers and Access Points

Office and Home Networks

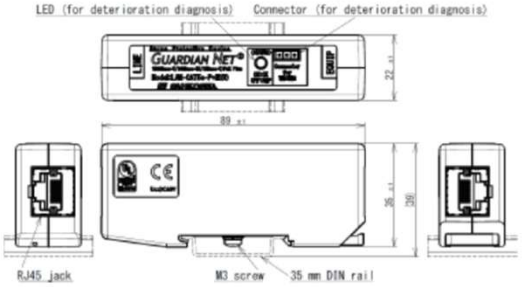
Security Camera Systems

Video Streaming Systems

WiMAX Systems

GigE Data Lines

IP Phone Systems





(Deterioration Tester Sold Separately)

SANKOSHA

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Japanese: https://www.sankosha.co.jp/
USA Distributor(Lumimax Optoelectronic Technology): https://lumimaxusa.com
※LAN-CAT5e-P+II(R)50 is referable to LAN-CAT5e-P+II(R).

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Specifications are subject to change without notice.
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