

## Power Over Ethernet PoE Midspan Injector Category 5 1 Port 802.3af Type B w/ Lightning Protection & Power Supply 48 Volts at 48 Watts

### PI-1C5-AFB-LP-4848 PoE Injector



#### Features

- IEEE 802.3af compatibility
- 48VDC @ 48 Watt power supply
- Midspan type PoE injector with Type B wiring
- Rugged die cast aluminum enclosure with integral mounting feet
- 1 port design
- Lightning and surge protection included

#### Applications

- IP Cameras
- VoIP (Voice over Internet Protocol) Telephones
- Access points, bridges, amplifiers and amplified antennas
- Building and control systems
- Digital signage
- Network switches
- Lighting systems
- Traffic systems
- Smart home and building
- POS systems

#### Description

Transtector's PI-1C5-AFB-LP-4848 single-port Category 5 (Cat 5) PoE Midspan/Injector (also known as PoE Passive Splitter or Tap) is a commercial grade Power-over-Ethernet device that supplies power for a 10/100 Base-T Power-over-Ethernet, PoE equipped network device. It is compatible with a Power Device (PD) that support the IEEE 802.3af standard PoE power feed using Mode B (Pins 4/5 and 7/8). Additionally, the unit supports both positive and negative DC as well as AC power up to 55 volts. Only a single Ethernet cable is run to each network appliance instead of separate power and data cables as Power-over-Ethernet eliminates the need for an AC outlet to be installed. The PI-1C5-AFB-LP-4848 features integral surge protection for the data lines and power feeds. This eliminates the need for an external surge protector. The unit provides protection for both common and differential mode surges. High-speed semiconductors clamp any voltage, positive or negative on the wires. The limits are +/- 58 volts on the four cable pairs. The design utilizes Thyristor diode technology which has superior power handling capability compared to TVS or Avalanche diode based designs. The PI-1C5-AFB-LP-4848 can also be used as a standalone lightning surge protector. The PI-1C5-AFB-LP-4848 also features shielded RJ45 jacks. This along with a metal housing to helps reduce the effects of EMI interference. A ground lug and terminal is provided directly on the injector housing providing superior grounding. The cast aluminum housing includes integral mounting feet for ease of installation. This kit includes the protector/injector and a 48VDC @ 48W power supply (PIPS-48V48W-R25MMDC). Transtector also sells Ethernet surge protection devices and Ethernet cables capable of connecting PoE devices. Check out Transtector's website and buy online today.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Ethernet Connectors		RJ45 Jack		
PoE Version		802.3af		
Ethernet Standard		Category 5, 10/100Base-T		
Max Current			1	A
Voltage Rating DC (Input)			48	VDC

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[Power Over Ethernet PoE Midspan Injector Category 5 1 Port 802.3af Type B w/ Lightning Protection & Power Supply 48 Volts at 48 Watts](#)

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## PI-1C5-AFB-LP-4848 PoE Injector

Voltage Rating DC (Output)	48	VDC
Operating Voltage AC	55	VAC
Power Connector	2.5mm DC Jack	
Wire Type	Type B	

### Mechanical Specifications

#### Size

Height	1.2 in	[30.48 mm]
Width	1.4 in	[35.56 mm]
Length	3.6 in	[91.44 mm]
Weight	1.34 lbs	[607.81 g]
Housing Material	Aluminum Alloy	
Grounding Lug	Yes	
Mounting Type	Mounting Feet	

### Environmental Specifications

Operating Temperature, Injector	-40 to +70 deg C
Environment Type	Indoor

Transtector Systems specializes in protection of highly sensitive, low voltage equipment through its patented, non-degrading silicon diode technology and custom filters. Our power quality expertise translates into a diverse product offering including AC, DC, and signal applications as well as integrated cabinets, power distribution panels and EMP hardened devices.

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URL: <https://www.transtector.com/poe-injector-category-5-1-port-rj45-jack-pi-1c5-afb-lp-4848-p.aspx>

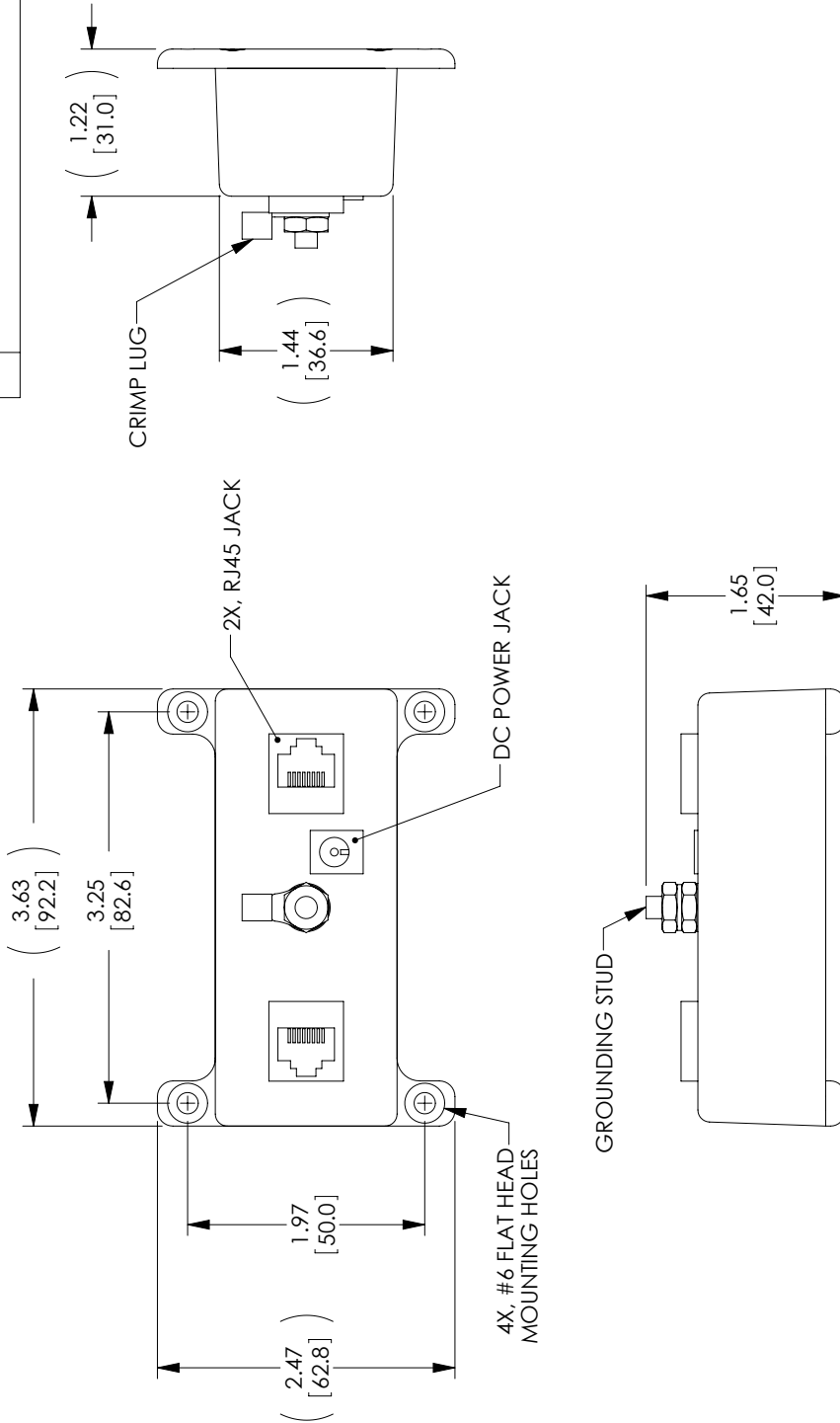
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Transtector reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Transtector does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Transtector does not assume any liability arising out of the use of any part or documentation.

Power Over Ethernet PoE Midspan Injector Category 5, 1 Port 802.3af Type

B/W Lightning Protection & Power Supply 48 Volts at 48 Watts

CAD Drawing

REV	DESCRIPTION	DATE	APPROVED
A	CN INITIAL RELEASE	03/13/20	DGUITADAURO



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APPROVALS	DATE	DATE
DRAWN BY D.CUI	03/06/20	03/06/20
CHECKED BY SPAN	03/06/20	03/06/20
APPROVED BY DGUITADAURO	03/06/20	03/06/20

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES [MM].  
 OVERALL CABLE LENGTH TOLERANCE:  
 ≤12 [305] = +1 [25] / -0  
 >12 [305] ≤60 [1524] = +2 [51] / -0  
 >60 [1524] ≤120 [3048] = +4 [102] / -0  
 >120 [3048] ≤300 [7620] = +6 [152] / -0  
 >300 [7620] = +5% / -0  
 ALL OTHER DIMENSIONAL TOLERANCES:  
 .X = ± 0.151 FRACTIONS  
 .XX = ± 0.02 [0.51] ± 1/32  
 .XXX = ± 0.005 [0.127] ANGLES ± 1°  
 THIRD-ANGLE PROJECTION

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**TRANSTECTOR**  
 an INFINITO brand

POWER OVER ETHERNET

POE INJECTOR CAT5 1PORT 802.3AF B  
 W/ LP 48V48W

SCALE: NONE | CAD FILE: PI-IC5-AFB-LP-4848.SLDDRW

REV. A

PI-1C5-AFB-LP-4848

SHEET 1 OF 1

- NOTES:**
1. COMPONENT ASSEMBLY SHALL BE INDIVIDUALLY PACKAGED
  2. ALL DIMENSIONS FOR REFERENCE ONLY