

# Telecom and Data Line Filter (TDLF) series

**Unit that ruggedize for military applications an industrial communication equipment not approved for military**

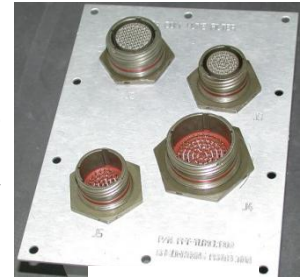
**General Description**

Telecommunication and Data Line Filter (TDLF) is a Front-End device for use in communication system. The device collects more than 200 signals such as Fast Ethernet (1Gbit), RS422, RS232, Video, discrete etc, and provides full guaranty for Signal Integrity (SI). It is used in all air, naval and ground platforms.

The unit is plugged in to a communication cabinet.

It has the capabilities of:

- Protection against lightning.
- Protection against other spikes and surges.
- Full RFI, EMI immunity for the equipment within the shelter.



Front View

**Typical Specifications**

- Lightning/EMP protection specifications:
  - Peak Voltage: 4KV@1.2µs/50µs per EN61000-4-5, class 4
  - Peak Current: 100A@8µs/20µs per EN61000-4-5, class 4
  - CS10, CS11 per MIL-STD-461C
- Protection performance:

	Protection energy	Protection capacitance	Working Voltage	Clamping voltage
<b>Fast signal</b>	5KW@1ms/ 1pulse/192A	50pF type Line to line	15V L-GND	30V L-GND
<b>Discrete signal</b>	5KW@1ms/ 1pulse/192A	1nF type Line to line	15V L-GND	30V L-GND

- Signal line specifications:
  - Current rating: 0.2ADC
  - Voltage rating: 500VDC
  - Dielectric strength: 750VDC@5s/25°C

**Environmental Conditions:**

Fully comply with MIL-STD-810F:

Operating Temperatures: - 40°C to 70°C  
 Storage temperatures: - 40°C to 70°C  
 Vibration: 4gRMS, 20 to 2000Hz.  
 Shock: 40g X 15ms Saw Tooth  
 Altitude: up to 10,000ft.  
 Humidity: Method 507.4 (240 hrs up to 95% @60°C)  
 Rain: Method 506  
 Dust: Method 510



Rear View

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