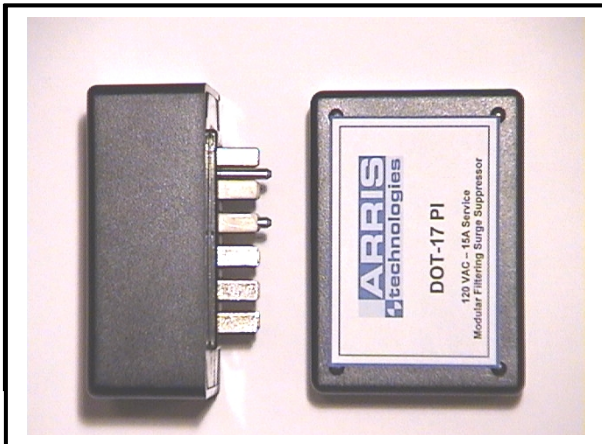




# MODULAR TRAFFIC CABINET SURGE & EMI/RFI PROTECTION - DOT-PI



The **DOT-PI** is a modular Series Hybrid surge suppressor and EMI/RFI line filter intended for ITS traffic cabinet applications. The **DOT-PI** incorporates multiple metal oxide varistor (MOV) surge suppression stages along with a series line LC Pi filter stage to provide clean, lightning protected power in a compact modular plug-in unit. The active components are epoxy encapsulated in a rugged, high temperature phenolic case for safe and reliable operation.

## Performance Capabilities:

Peak Current @ 8 x 20us wave form (L-G, L-N, N-G).....	20,000 Amps
Clamp Voltage .....	250V @ 10kA
Response Time .....	< 5ns
Surge Life .....	25 occurrences @ 10kA (8 x 20us)
Filtering .....	Line and Neutral to Ground
Steady State Service .....	120 VAC, 60 Hz, 15 Amps
Technology .....	Series Hybrid Inductor Circuitry
Insertion loss (10Khz – 1 Mhz) .....	10 – 90 dB
Filter Configuration (Line/Neutral) .....	Pi LC Filter
Regulatory Safety .....	Exceeds Safety Margins (NEMA TS1-2.1.6.2)
Operating Temperature .....	-40°C to +85°C
Weight .....	16 oz.
Dimension.....	4.0"L x 2.9"W x 1.6"D
Case Materials.....	Phenolic, Epoxy Encapsulated
Connector.....	Mates to Beau 5412 Socket

## Pinouts:

### DOT-17 PI

- 1 AC + RAW
- 2 AC + RAW
- 3 EQ GND
- 4 EQ GND
- 5 AC + CLEAN
- 6 AC + RAW (20A PROTECTED)
- 7 AC – CLEAN
- 8 NC
- 9 EQ GND
- 10 EQ GND
- 11 AC - RAW
- 12 AC - RAW

### DOT-19 PI

- 1 AC + RAW (LINE IN)
- 2 AC + RAW (LINE IN)
- 3 EQ GND
- 4 EQ GND
- 5 AC + CLEAN (LINE OUT)
- 6 NC
- 7 AC – CLEAN (NEUTRAL OUT)
- 8 NC
- 9 EQ GND
- 10 EQ GND
- 11 AC – RAW (NEUTRAL IN)
- 12 AC – RAW (NEUTRAL IN)