

The FPL-C01 is an ultra-fast trigger 2-stage protector with TNC female connectors.



FPL-C02 shown

### Features:

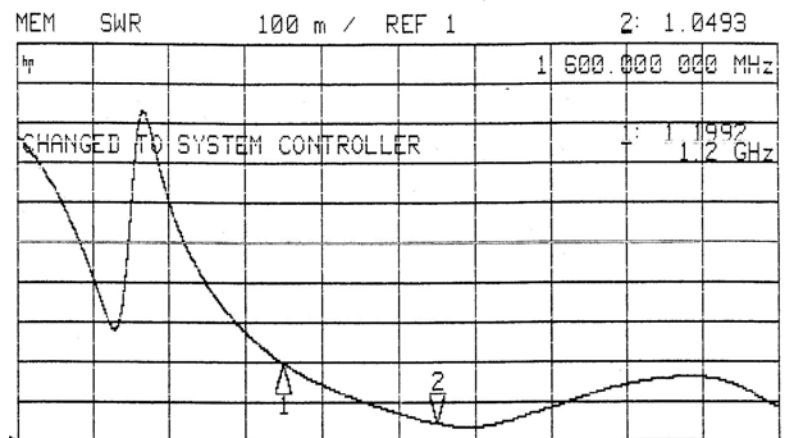
- ✦ Frequency range 1.2 – 1.6GHz
- ✦ Excellent RF Performance
- ✦ 20kA Multiple Strike Capability
- ✦ 50kA (8x20 $\mu$ s) Surge Capability
- ✦ Rugged and Waterproof
- ✦ High RF Power and Low PIM

## RF Specifications

Nominal Impedance – 50  $\Omega$

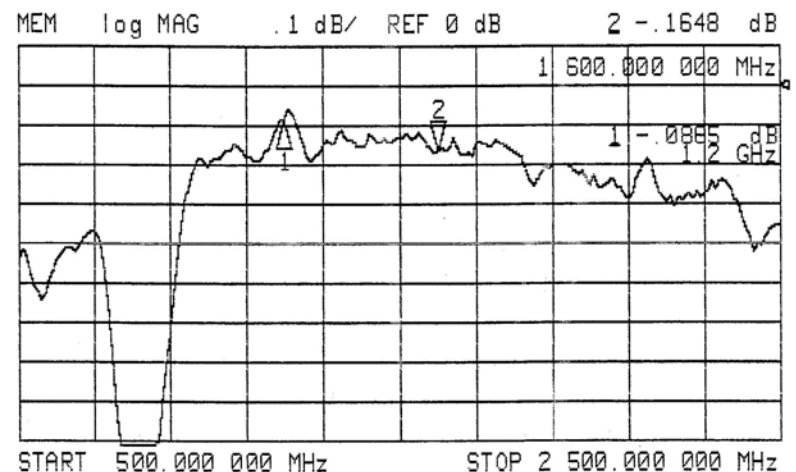
| RF Performance |                   |          |
|----------------|-------------------|----------|
| Frequency      | 1.2 GHz – 1.6 GHz |          |
| VSWR           | 1.15 Avg          | 1.3 Max  |
| Insertion Loss | 0.05 Typ          | 0.15 Max |

- ✦ Through Current: 7.5 A Max
- ✦ RF Power: 20 W Max

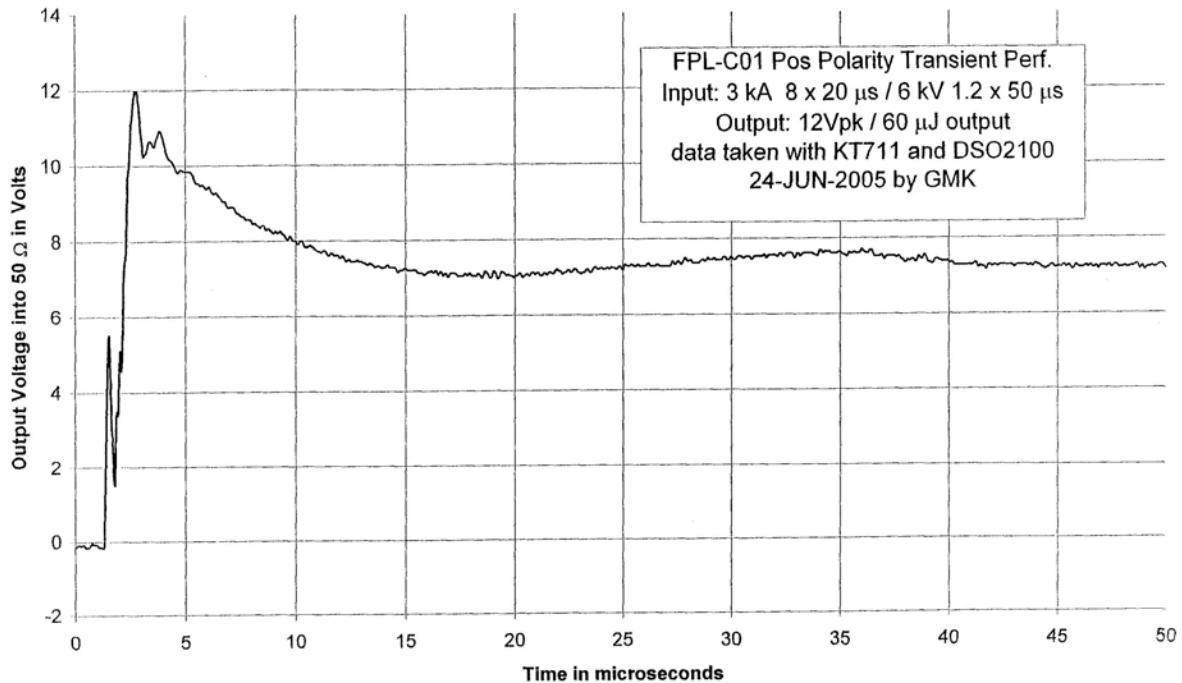
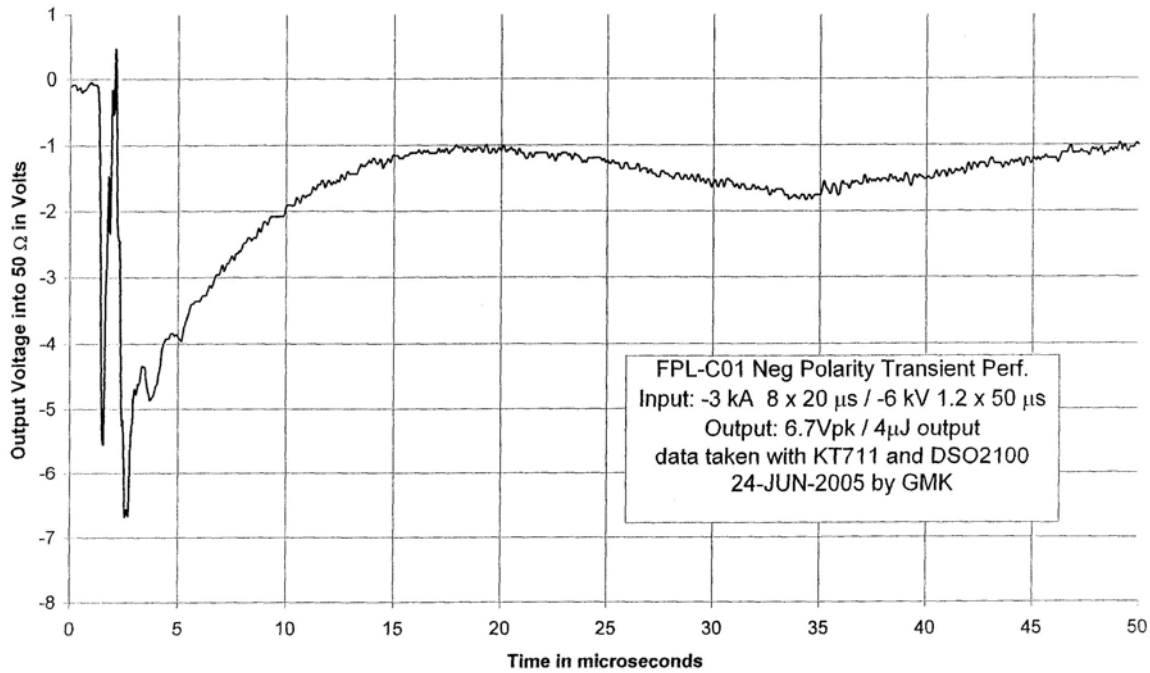


## Transient Specifications

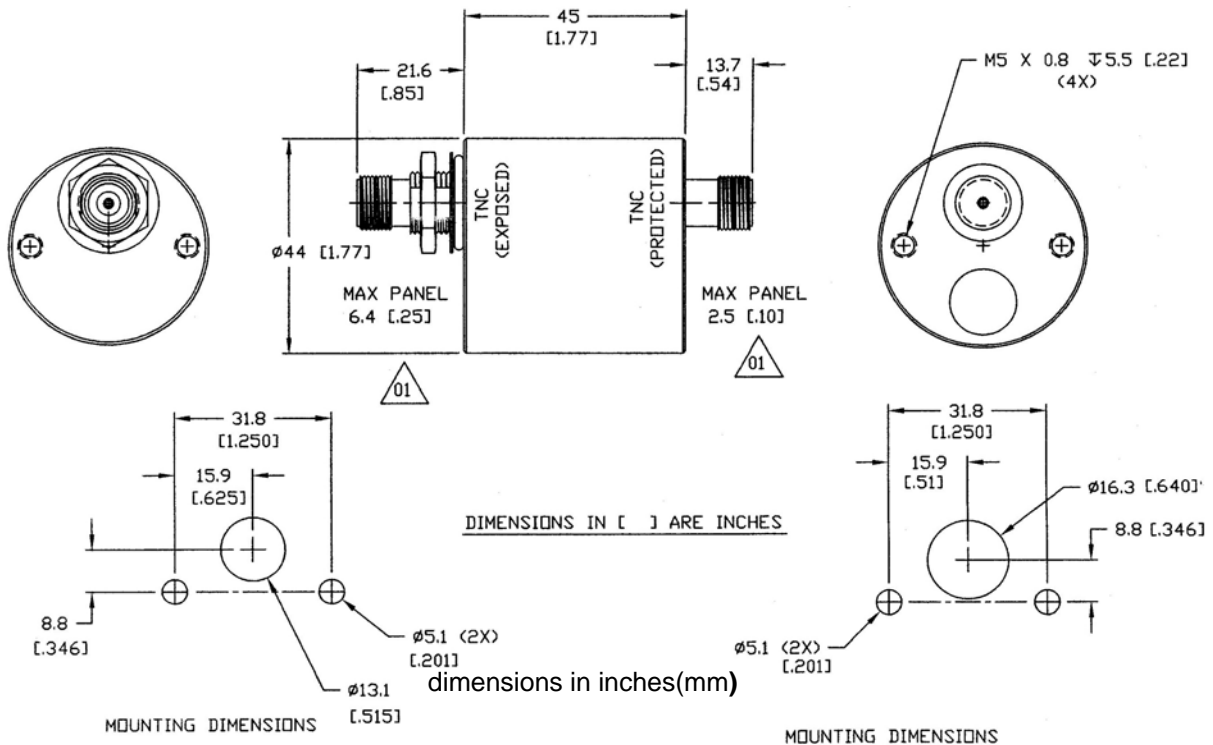
- ✦ Maximum Transient: 50 kA ()
- ✦ Multiple Strike: 20 kA 10 times (8x20 $\mu$ s)
- ✦ Let-Through:
  - Positive Polarity: +12Vpk / 50  $\mu$ J
  - Negative Polarity: -7Vpk / 4.0  $\mu$ J
  - Input is 6kV 1.2x50 $\mu$ s/3kA 8x20 $\mu$ s



### Transient Test Results



## Mechanical Specifications



## Environmental Specifications

|                            |   |
|----------------------------|---|
| Temperature Range          | -40°C to +90°C                                      |
| Temperature Shock          | MIL-STD-202 107D /B-1 (25 cycles -65°C to +125°C)   |
| Dust and Waterproof Rating | IEC 529 IP67 (dust-tight and waterproof 1 hr / 1 m) |
| Moisture Resistance        | MIL-STD-202 Method 106E (65°C/98% RH 96hrs)         |
| Stress Screen              | MIL-STD-202 Method 108 A/A (96 hours at 100°C)      |
| Salt Fog                   | MIL-STD-202 Method 101D /A (96 hours at 35°C)       |
| Vibration                  | MIL-STD-202 Method 204 /D (10Hz-2 kHz 0.06"DA/20g)  |
| Mechanical Shock           | MIL-STD-202 Method 213B /A (50Gpk/11ms)             |
| Immersion                  | MIL-STD-202 Method 104A /B (12" 25°-65°C)           |

## Material and Finish

| Component      | Material  | Finish     |
|----------------|-----------|------------|
| Outer Parts    | Brass     | Guardplate |
| Center Contact | BeCu      | Gold       |
| Insulator      | PTFE      |            |
| Gasket         | Si Rubber |            |

Guardplate is an alloy finish with the PIM and conductivity of Silver and the durability and anti-tarnish properties of Nickel.

## Part Number FPL-C01