**BROADBAND HF/VHF/UHF COAXIAL PROTECTORS**

**APPLICATION:**

For general radio use; surface or bulkhead mountable options; NOT where transmitter combining is performed.

- Utilizes UL497B listed gas tube
- Models from 1.5MHz to 10.000MHz
- Multi-strike capability
- Low strike throughput energy
- Range mount and bulkhead mount options
- Not weather resistant
- Weatherize using WK-1 (see page 54)
- Aluminum enclosure
- 18-8 stainless steel hardware
- UHF nickel shell silver center, TFE
- N silver shell and gold center pin

**MIL Specs:** Meets 6’ all angle drop test; Op to 70,000’, MIL-STD-202, 170F Cond. B -85°C to 125°C, rainproof option meets many MIL specs under 202 and 810 for vibration, shock (both), fungus, etc. UHF & N connectors MIL-C-39012, QQ-S-365, QQ-B-626, QQ-C-530 and MIL-G-45204, follows MIL-STD-4541, Solder QQ-S-571 Sn62

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**SPECIFICATIONS:**

- Surge: 50kA EIE 1000-4.5 x 20µs waveform 500 Joules
- Turn-on: 600Vdc ±20% 2.5ns for 2kV/ns L models 1200Vdc ±20% 7ns for 2kV/ns H models
- VSWR:
  - C0: 1.5 to 2MHz is 1.2 to 1 & 2 to 400MHz is 1.1 to 1
  - C1: 50 to 600MHz is 1.2 to 1 & 60 to 700MHz is 1.1 to 1
  - C2: 125 to 1000MHz is ≤1.1 to 1 type N, ≤1.2 to 1 type F & UHF
- Insertion Loss: ≤0.1dB over frequency range
- Temperature: -45°C to +85°C Storage/Operating +50°C
- Vibration: 1G up to 100Hz

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**ORDER INFORMATION:** (Female)

- **IS-B50LUC0**
  - Throughput Energy: ≤10kW (UHF Connector/Bulkhead)
  - Frequency Range: 1.5MHz to 400MHz
  - Max. Power: HF 2kW, VHF 375W, UHF 125W
- **IS-B50LUC1**
  - Throughput Energy: ≤20kW (UHF Connector/Bulkhead)
  - Frequency Range: 1.5MHz to 400MHz
  - Max. Power: HF 3kW, VHF 500W, UHF 250W
- **IS-B50LUC2**
  - Throughput Energy: ≤20kW (UHF Connector/Bulkhead)
  - Frequency Range: 50MHz to 700MHz
  - Max. Power: VHF 375W, UHF 125W
- **IS-B50LUC3**
  - Throughput Energy: ≤10kW (UHF Connector/Bulkhead)
  - Frequency Range: 50MHz to 700MHz
  - Max. Power: VHF 500W, UHF 250W
- **IS-B50LUC0**
  - Throughput Energy: ≤10kW (N Connector/Bulkhead)
  - Frequency Range: 1.5MHz to 400MHz
  - Max. Power: HF 2kW, VHF 375W, UHF 125W
dc Blocked

Mounting Configuration: flange mount models

IS-B50HN-C0 Throughput Energy: ≤20mJ (N Connector/Bulkhead)
Frequency Range: 1.5MHz to 400MHz
Max. Power: HF 3kW, VHF 500W, UHF 250W

IS-B50LN-C1 Throughput Energy: ≤500μJ (N Connector/Bulkhead)
Frequency Range: 50MHz to 700MHz
Max. Power: VHF 375W, UHF 125W

IS-B50HN-C1 Throughput Energy: ≤1mJ (N Connector/Bulkhead)
Frequency Range: 50MHz to 700MHz
Max. Power: VHF 500W, UHF 250W

IS-B50LN-C2 Throughput Energy: ≤220μJ (N Connector/Bulkhead)
Frequency Range: 125MHz to 1000MHz
Max. Power: VHF 375W, UHF (low) 125W
800MHz to 1GHz 50W

IS-B50HN-C2 Throughput Energy: ≤800μJ (N Connector/Bulkhead)
Frequency Range: 125MHz to 1000MHz
Max. Power: VHF 500W, UHF (low) 250W
800MHz to 1GHz 125W

IS-50UX-C0 Throughput Energy: ≤10μJ (UHF Connector/Surface)
Frequency Range: 1.5MHz to 400MHz
Max. Power: HF 2kW, VHF 375W, UHF 125W

IS-50UX-C1 Throughput Energy: ≤600μJ (UHF Connector/Surface)
Frequency Range: 50MHz to 700MHz
Max. Power: VHF 375W, UHF 125W

IS-50NX-C0 Throughput Energy: ≤10μJ (N Connector/Surface)
Frequency Range: 1.5MHz to 400MHz
Max. Power: HF 2kW, VHF 375W, UHF 125W

IS-50NX-C1 Throughput Energy: ≤600μJ (N Connector/Surface)
Frequency Range: 50MHz to 700MHz
Max. Power: VHF 375W, UHF 125W

IS-50NX-C2 Throughput Energy: ≤1mJ (N Connector/Surface)
Frequency Range: 750MHz to 1000MHz
Max. Power: VHF 375W, UHF (low) 125W
800MHz to 1GHz 50W

IS-75F-C1 Throughput Energy: ≤1μJ (f Connector/Surface)
Frequency Range: 4MHz to 900MHz VSWR ≤1.21
Max. Power: HF 100W, VHF 100W, UHF 25W

Ass. suffix: MA for male antenna port connector
ME for male equipment port connector

*Typical
Choose lowest throughput energy for desired frequency.
Energy based on 6MV/3MA & 20% waveform.