

ALPHA-DELTA USA.

TRANSI-TRAP

UL listed to Standard 497B.



Specification for TT3G50HP (0-3000MHz)

| | |
|-------------------|--|
| VSWR | <1.10 : 1 (0-1000MHz) <1.30 : 1 (1000-2000MHz) <1.40 : 1 (2000-3000MHz) |
| Insertion Loss | <0.1dB (0-1000MHz) <0.2dB (1000-2000MHz) <0.4dB (2000-3000MHz) |
| Impedance | 50 ohms |
| Power Rating | 2,000 watt |
| Connectors | N Female. Both ends. |
| DC Blocking | None. Will pass DC for Power and Control purposes. Max. DC or peak AC is 150V. |
| Firing Point | 350V. ± 15% @ <100v/s <1000 @ 5kv/μs rise |
| Breakdown Voltage | 20 - 30V. |
| Surge Current | 5000A(8/20 μs pulse) |
| ARC-PLUG Life | >600 times @500A pulse Field replaceable |
| Dimension | L53 x W25 x H32 mm |



Specifications for TT3G50UHP (0-500MHz)

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|------|--|----------------|--|
| VSWR | <1.10 : 1 (0-150MHz) <1.25 : 1 (150-500MHz) | Insertion Loss | <0.1dB (0-150MHz) <0.2dB (150-500MHz) |
|------|--|----------------|--|

COAXIAL SURGE PROTECTOR

HP series up to 2 kiloWatt for Indoor/Outdoor application.

Transi-Trap Surge Protectors are gas surge arresters designed to protect sensitive electronic equipment from damage due to excess voltage or currents generated by transient phenomena, lightning or static build-up.

The elements in the ARC-PLUG cartridge consist of two metal electrodes hermetically sealed in a rugged gas-filled ceramic cylinder. They perform as voltage-independent switches which can reliably and repeatedly carry large currents for brief periods of time. In operation, a sufficient voltage across the element cause an arc to form between the electrodes, changing its impedance from greater than 10,000 megohms to a few milliohms in less than 100 nanoseconds time. While conducting in the arc mode, the voltage across the surge arrester is less than 30 volts.

The life of the ARC-PLUG cartridge is a function of the surge current amplitude and duration to which the device is subjected. Transients are by their very nature unpredictable in magnitude and energy level. Life may be hundreds of operations, depending on surge current wave shape.

After a sufficient number of lightning pulses have been discharged through the ARC-PLUG cartridge, there is a gradual lowering of breakdown voltage and insulation resistance. Therefore ARC-PLUG cartridge replacement is indicated by an increase in VSWR during transmitter tune-up, or by a "dead" receiver caused by an extremely strong near-miss lightning discharge shorting the ARC-PLUG cartridge. In this case, the short continues to protect the equipment until cleared.

INSTALLATION INSTRUCTIONS

Where to install: On a grounding bus or point where the equipment to be protected is grounded and as close to the equipment as practicable.

How to install: Use the threaded stud on the back for a single hole mounting and grounding. Either connector may be used for input or output. Pre-existing cable must be cut and each end fitted with a Male connector. Connect a cable to each end of the TRANSI-TRAP protector and the installation is done. *Note: To insure that the completed installation is weather-proof, it is imperative that the mating coaxial connectors be sealed using proper materials and procedure.

Replaceable ARC-PLUG cartridge: After hundreds of protective firing of the ARC-PLUG cartridge or after a catastrophic surge, the ARC-PLUG cartridge may fail and require replacement. Failure of the ARC-PLUG cartridge will be apparent due to the fact that it fails in a shorted or "fail-safe" mode so as not to leave the equipment un-protected. TRANSI-TRAP protectors are designed to allow the quick and simple replacement of the ARC-PLUG cartridge in the field without the use of tools and without removing the surge protector from the circuit. Simply unscrew the failed cartridge by gripping the knurled section and turning counter-clockwise. Replace with a new cartridge tightening only by hand until the cartridge "bottoms out" against the tru-line. Make sure that the cartridge O-Ring is fully seated into the body of the protector. The TRANSI-TRAP protector is now restored to full operation.

ALPHA DELTA COMMUNICATIONS INC. hereby warrants its TRANSI-TRAP lightning protector products to be manufactured in its US factory under strict ISO 9002 compliance, using only the finest materials and conforming to the stringent UL List Test that covers environmental, vibration, salt spray, electrical safety and surge breakdown performance.

ALPHA DELTA's TRANSI-TRAP lightning protectors are endorsed and approved by Military and Commercial customers worldwide and in use by the elite U.S. Army, Air Force, Navy & Coast Guard, Naval Space Command, Northern Telecom, Hughes Network Systems, Fresnal Italia and many others.

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LISTED
ISOLATED LOOP
CIRCUIT PROTECTOR
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