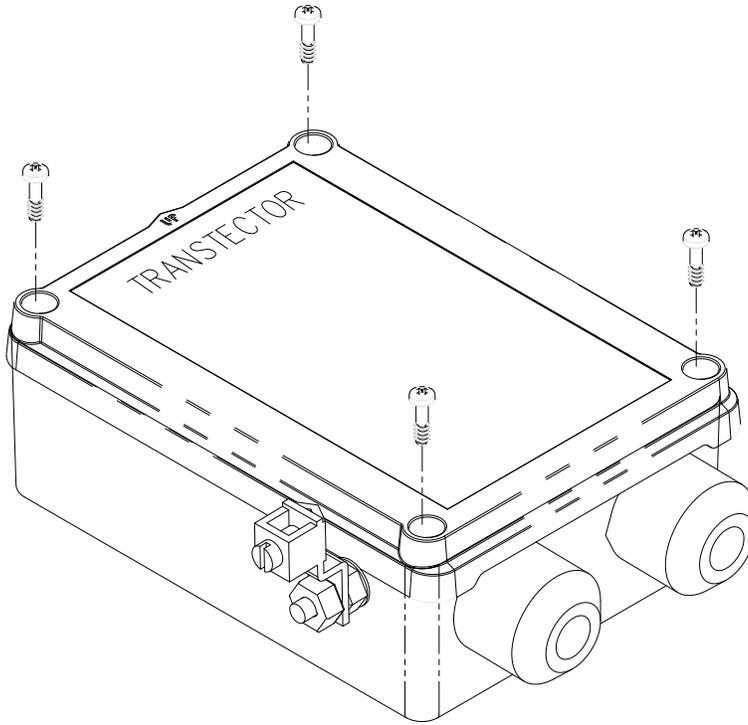


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REVISIONS

LTR	DESCRIPTION	ECO NUM.	DATE	APPROVED
A	PRODUCTION RELEASE		6/8/05	CDD



UNLESS OTHERWISE SPECIFIED DIM. IN INCHES BEFORE PLATING

DRAWN: JDW	DATE 6/8/05
CHECKED: RRR	7/12/05
ENGR. APPD: DWR	7/12/05
PROJ. APPD: CDD	7/12/05
APPROVED:	



Transtector Systems, Inc.

10701 Airport Road, Hayden, ID 83835

800.882.9110 208.772.8515 www.transtector.com

TITLE:

**SPECIFICATION
ALPU-ORT**

MATERIAL:

NOTED

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SIZE A	CAGE 30992	DRAWING NUMBER 1400-550	REV A
SCALE = N/A		PAGE 1 OF 3	

SURGE SUPPRESSOR MODEL: ALPU-ORT

1. **GENERAL DESCRIPTION:** The ALPU-ORT surge suppressor is a high-speed, high-current solid state device designed to protect the Orthogon Gemini and Spectra Radio systems. **The ALPU-ORT surge suppressor uses only silicon avalanche suppression diodes (SASD).** It connects to the service in a pass through configuration. All input and output Ethernet connections terminate at "110" Style punch down blocks. Both the input and output harnesses pass into the suppressor housing via waterproof strain relief cable entry. The molded plastic enclosure is also waterproof and features integrated mounting holes that are concealed by the cover and an integrated gasket.

2. PERFORMANCE REQUIREMENTS:

2.1. Electrical Service:

2.1.1. Ethernet

- 2.1.1.1. Transfer rateCAT-5
- 2.1.1.2. Configuration.....4 pair
- 2.1.1.3. Input Connection..... "110" Style Punch Down Blocks
 - 2.1.1.3.1. Number of connector positions.....8
- 2.1.1.4. Protection Modes Line to Line, Line to Ground
- 2.1.1.5. Maximum Continuous Operating Voltage
 - 2.1.1.5.1. Pins 1, 2, 3, 694 V
 - 2.1.1.5.2. Pins 4, 5, 7, 899 V

2.2. Electrical Performance:

2.2.1. Ethernet and Signals

- 2.2.1.1. Testing:
 - 2.2.1.1.1. Tested to IEEE/ANSI C62.41 10/1000 Long Wave
 - 2.2.1.1.1.1. I_{pk}.....120 A peak
- 2.2.1.2. Response Time (Max)5 nanoseconds
- 2.2.1.3. Peak Power14000 Watts

3. ENVIRONMENTAL:

- 3.1. Operating Temperature:-40°C to +80°C
- 3.2. Storage Temperature:-40°C to +80°C
- 3.3. Relative Humidity:100%(non-condensing)



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SIZE	CAGE		
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SCALE =			Page 2 OF 3

4. MECHANICAL/INSTALLATION

- 4.1. Enclosure dimensions:** The suppressor is housed in a molded plastic enclosure that is 6.13 in long, 4.5 in wide and 2.5 in tall.
- 4.2. Mounting data:** See product installation instructions, mounting hardware is included in the packaging supplies.
- 4.3. Wiring data**
 - 4.3.1.** The ALPU-ORT surge suppressor is designed to accept (2) multi-conductor cables with outside diameters of up to .375". (110 punch-down tool provided for electrical connection).

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