

## MAXIMUM CHARACTERISTICS

### Application:

CPX Chassis Rack Mounted 48 Volt DC Protection

### Electrical Performance:

**Protection Modes:** DC + to DC -, DC + to Ground, DC - to Ground

**Nominal Operating Voltage  $U_n$ :** 48 Vdc

**Maximum Continuous Operating Voltage  $U_c$ :** 65 Vdc

**Maximum Load Current:** 15 Amps

**Nominal Discharge Surge Current (8/20)  $I_n$ :** 5 kA (8/20  $\mu$ s) per protection mode

**Protection Level @ 500 A, 8/20  $\mu$ s:** 97 V<sub>pk</sub>

**Protection Level  $U_p$  @  $I_n$ :** 250 V<sub>pk</sub>

**Response Time:** <5 nano-seconds

**Leakage Current at  $U_n$ :** <30  $\mu$ A

**Failure Mode:** Power disconnect from radio if suppression fails

**Over-Current Protection:** Replaceable cartridge fuse (1.25" x  $\varnothing$ .25")

List of approved fuses shown in Table 1.

**Approvals:** RoHS compliant, CE compliant

### Mechanical:

**DC Power Input/Output Connections:** Spring Cage Clamp

**Wire Range:** #24 to #8 AWG

**Dimensions:** 1.99" [51mm] x 1.63" [41mm] x .308" [78mm]

**Weight:** <1 lbs [.45 kg]

### Environmental:

**Operating Temperature:** -40°C to +85°C

**Relative Humidity:** <95% (non-condensing)

**Mounting:** CPX chassis compatible

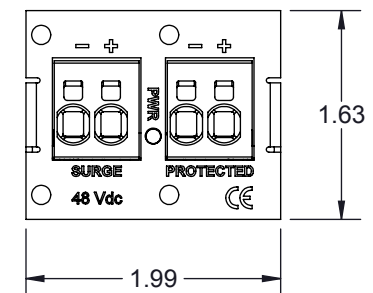
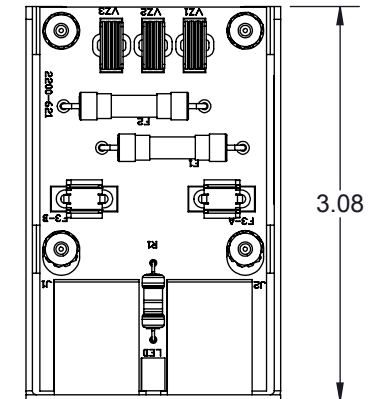
**Chassis P/N:** 1101-972

Cooper Bussmann ABC Series Fuse	
Current Rating (Amps)	Part Number
1	ABC-1-R
1-1/2	ABC-1-1/2-R
2	ABC-2-R
2-1/2	ABC-2-1/2-R
3	ABC-3-R
4	ABC-4-R
5	ABC-5-R
6	ABC-6-R
7	ABC-7-R
8	ABC-8-R
10	ABC-10-R
12	ABC-12-R
15	ABC-15-R

Table 1. List of approved fuses.

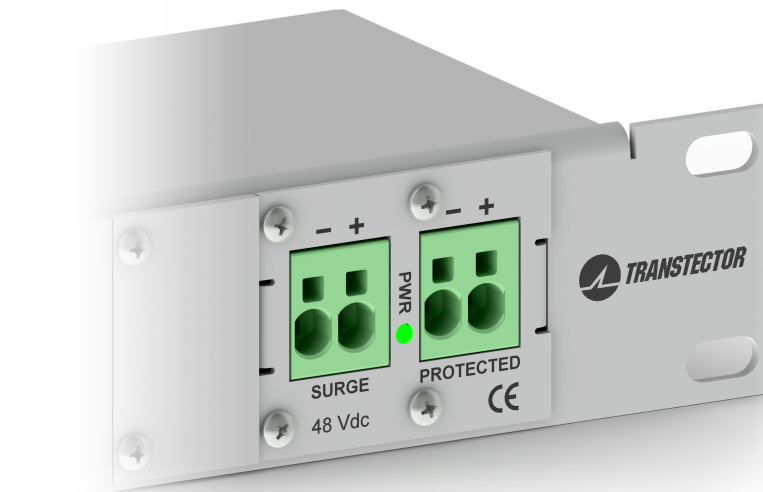
## REVISIONS

REV.	DESCRIPTION	ECN	DATE	APPROVED
D	REFER TO ECN	11353	01/31/13	TOT



CUSTOMER APPROVAL: \_\_\_\_\_ DATE: \_\_\_\_\_

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<small>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</small> <b>TOLERANCES:</b> FRACTIONS=± 1/32 .XX=± .02 ANGLES=± 1° .XXX=± .005 <small>NOTICE: THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF TRANSTECTOR SYSTEMS. ALL RIGHTS RESERVED.</small>	DRAWN	TOT	DATE	5/21/12			SHEET	1	OF	1
	ENG APPD	KAD	09/28/12				SCALE			2:3
	PRODUCT MGR	JRA	10/1/12				TITLE <b>CPX DC DEFENDER</b> <b>48-5</b> <small>CUSTOMER SPECIFICATION</small>			
	MARKETING APPD	LJ	10/1/12							
THIRD-ANGLE PROJECTION		PROJECT NO.	DD91892		SIZE	A	CAGE	30992	PROD CAT	DCT
		DOCUMENT NAME	1000-1405-C		PART NUMBER	1000-1405	REV	D		