MAXIMUM CHARACTERISTICS

Application:
48 Volt DC Protection. The DC Defender provides robust 5kA lightning current withstand for sensitive 48VDC powered equipment. The unit features silicon avalanche diode technology to provide the optimum low voltage protection for DC power plant, tower top radios, low noise amplifiers (LNA) and tower mounted amplifiers (TMA) applications. The unit is encased in a rugged metal enclosure for outdoor cabinet and pole mounting installations.

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: 60 Vdc
Maximum Line Current: 15 Amps
Nominal Discharge Surge Current (8/20) I_n: 5 kA (8/20 µs) per protection mode
Protection Level @ 500 A, 8/20 µs: 97 V_{pk}
Protection Level U_p @ I_n: 250 V_{pk}
Response Time: <5 nano-seconds
Leakage Current at U_n: <30 µA
Failure Mode: Power disconnect from radio if suppression fails

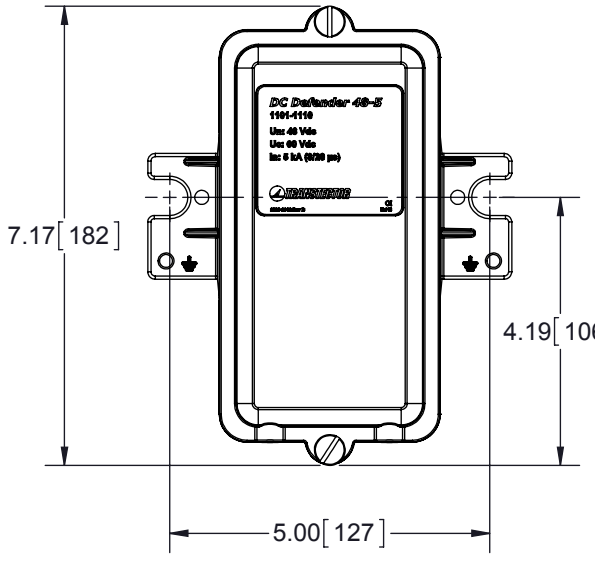
Approvals: RoHS compliant, CE compliant

Mechanical:
DC Power Input/Output Connections: Compression Lugs
Wire Range: #14 to #10 AWG
Enclosure Rating: NEMA 3R
Dimensions: 7.17" [182mm] x 5.69" [145mm] x 1.65" [42mm]
Weight: <5 lbs [2.27 kg]

Environmental:
Operating Temperature: -40ºC to +85ºC
Relative Humidity: <95% (non-condensing)

Mounting: Surface/wall or on a pole with kit
Pole Mount Kit: 1000-1164 (not included)

REVISIONS				
REV.	DESCRIPTION	ECN	DATE	APPROVED
C	REFER TO ECN	11028	09/26/12	TOT





COMPRESSION LUGS
#14 AWG TO #10 AWG
SUM DIAMETER OF DUAL
CONDUCTORS NOT TO
EXCEED Ø0.300".

CUSTOMER APPROVAL: _____ DATE: _____

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:
FRACTIONS=± 1/32 .XX=± .01
ANGLES=± 1 ° .XXX=± .005

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THIRD-ANGLE PROJECTION

DRAWN	TOT	DATE 5/18/12
ENG APPD	KAD	05/21/12
PRODUCT MGR	MLH	6/20/12
MARKETING APPD	LJ	6/20/12
PROJECT NO.	DD89447	
PART NUMBER	1101-1110	

TRANSTECTOR

SHEET 1 OF 1
SCALE 1:3

TITLE: DC DEFENDER 48-5
CUSTOMER SPECIFICATION

SIZE	CAGE	PROD CAT	DOCUMENT NAME	REV
A	30992	DCT	1101-1110-C	C

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