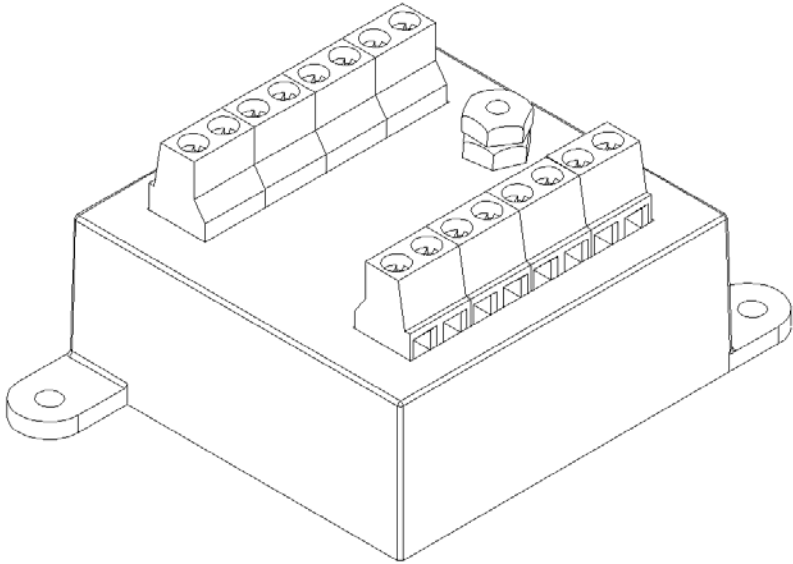


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REVISIONS				
LTR	DESCRIPTION	ECO NUM.	DATE	APPROVED
A	PRELIMINARY RELEASE	DD040	1/20/06	MLH



UNLESS OTHERWISE SPECIFIED DIM. IN INCHES BEFORE PLATING	DRAWN:	MLH	DATE	1/20/06
	CHECKED:	GP		2/13/06
	ENGR. APPD:	JDW		2/6/06
	PROJ. APPD:	DLR		2/6/06
MATERIAL:	APPROVED:			
NOTED				



TITLE:
CR4 CARD READER PROTECTOR SPECIFICATION

NOTICE: THE INFORMATION AND DESIGN CONTAINED HEREIN IS THE PROPERTY OF TRANSTECTOR SYSTEMS, WHO RESERVES ALL RIGHTS THERETO	SIZE	CAGE	DRAWING NUMBER	REV
	A	30992	1400-566	A
SCALE = N/A			PAGE 1 OF 2	

SURGE SUPPRESSOR Model: CR4 CARD READER SUPPRESSOR PN1101-798

1. **GENERAL DESCRIPTION:** The CR4 Card Reader surge suppressor is a high-speed, high-current solid state device designed to protect up to four wire pairs (8 wires total) RS 422, 4-20 ma wire pair configurations and other balanced pair applications from transient over voltages. Each wire is protected to its pair and to ground. **The CR4 CARD READER uses only silicon suppression components.** It protects bi-directionally between the equipment and line via two (2), eight (8) position terminal blocks.

2. **PERFORMANCE REQUIREMENTS:**

2.1. **Electrical Service:**

- 2.1.1. **Service Voltage** 24 VDC
- 2.1.2. **Configuration** 4 balanced pairs + 1 ground
- 2.1.3. **Ground Connection** ¼-20 Si-Bronze stud, with Jams nuts
- 2.1.4. **Data Connections** Terminal Block, 12-28awg (3mm² max)
 - 2.1.4.1. **Number of connector positions** 8 in, 8 out
- 2.1.5. **Protection Modes** Line to Line, Line to GND
- 2.1.6. **Maximum Continuous Operating Voltage** 36 VDC

2.2. **Electrical Performance:**

2.2.1. **Testing:**

- 2.2.1.1.... Tested to IEEE/ GR1089, 10/1000us, 1000V/100A: 70V clamp @ 100Apk
- 2.2.1.2.... Tested to IEEE C62.41, 8/20us:.....70V clamp @ 1000Apk
- 2.2.2. **Response Time (Max)** 1 nanoseconds
- 2.2.3. **Parasitic Capacitance (Max)** 35 picofarads

2.3. **Mechanical:**

- 2.3.1. **Enclosure Description:** The suppressor is housed in a molded plastic enclosure that is 2.2 in long, 2.2 in wide and 0.9 in tall (5.6cmmx5.6cmmx2.3cm). See Illustration below.
- 2.3.2. **Weight:**0.14lb (.06kg)

3. **ENVIRONMENTAL:**

- 3.1. **Operating Temperature:**-20°C to +65°C
- 3.2. **Storage Temperature:**.....-20°C to +65°C
- 3.3. **Relative Humidity:**..... 90%

