

Dimensions in Inches, Tolerances: .XX ± .03 .XXX ± .010

**DC CURRENT TRANSDUCER
SERIES S619**

<u>PART NUMBER</u>	<u>CURRENT RANGE</u>	<u>OVERLOAD</u>	<u>TRANSIENT</u>	<u>INPUT IMPEDANCE</u>
S619-3.5	0 TO 3.5A	0 TO ±5A	250	5
S619-10	0 TO 10A	0 TO ±15A	750	1.75

INPUT CURRENT

CURRENT RANGE	See Table
OVERLOAD	See Table continuous
TRANSIENT OVERLOAD	See Table sec / hr max.
ISOLATION	500V RMS, 60Hz 1 min.
INPUT IMPEDANCE	See Table milli-Ohms max.

OUTPUT

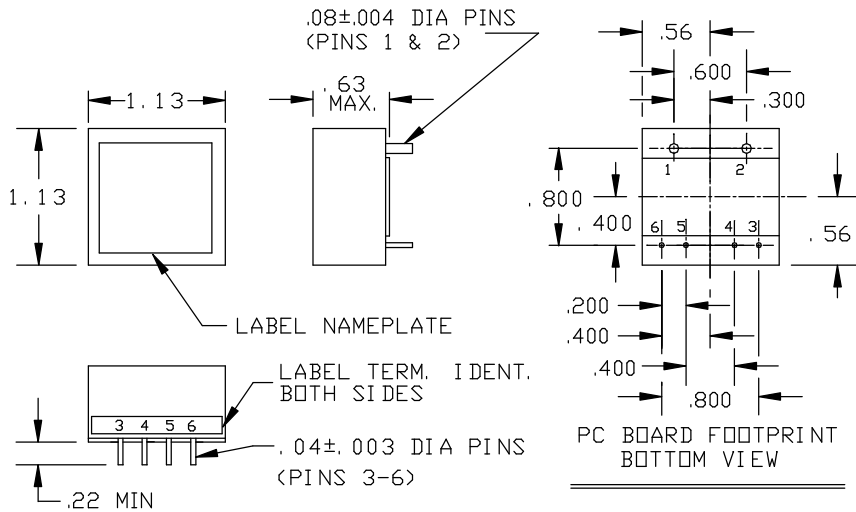
VOLTAGE SIGNAL	0 to +3.5Vdc FS (Full Scale)
ACCURACY (@ 25°C).....	± 2% FS (± 70mV)
RESPONSE (0 to 90%).....	1 m-sec
OUTPUT IMPEDANCE.....	50 Ohms max.
TEMPERATURE COEFFICIENT.....	.04% FS /°C max.
LOAD IMPEDANCE	10K-Ohms min.

POWER SUPPLY (PS)

SUPPLY VOLTAGE	+5Vdc ± .5Vdc
CURRENT DRAIN.....	5mAdc max.
POWER SUPPLY PROTECTION	0 to +12Vdc withstanding without damage

ENVIRONMENTAL AND PHYSICAL CHARACTERISTICS

OPERATING TEMPERATURE RANGE	-55° to +85°C
STORAGE TEMPERATURE RANGE.....	-55° to +105°C
OPERATING HUMIDITY	0% to 95% RH
MOISTURE RESISTANCE.....	Will meet Method 106 of MIL-STD-202 & Method 507.1, Procedure I of MIL-STD-810
PRESSURE.....	1 X 10 ⁻⁸ torr.
SHOCK	Operating: 50g, 11 m-sec half sine pulse (Method 213, Condition A of MIL-STD-202)
VIBRATION	MIL-STD-202F Method 214 Test Condition G 26.4 GRMS overall
DIELECTRIC STRENGTH.....	350V RMS dielectric withstanding voltage (Method 301 of MIL-STD-202)
INSULATION RESISTANCE	10 M-ohms min. (Method 302, Condition A of MIL-STD-202)
ATTITUDE.....	Unit will perform as specified when mounted in any position.
ENCAPSULANT	Stycast 2850FT Cat 11
CASE	Diallylphthalate MIL-M-14F,SDG
WEIGHT.....	1 oz. Typ.



TERMINAL IDENTIFICATION

1. INPUT CURRENT (+)
2. INPUT CURRENT (-)
3. SUPPLY VOLTAGE (+)
4. SUPPLY VOLTAGE (RTN)
5. OUTPUT SIGNAL (RTN)
6. OUTPUT SIGNAL (+)

NOTE: TERMINALS 4 & 5 ARE ELECTRICALLY COMMON.

NOTE: APPLY RTV 133 ADHESIVE (OR EQUIVALENT) 360° AROUND BOTTOM OF UNIT AFTER INSTALLING TO MEET ENVIRONMENTAL CHARACTERISTICS.

AAC	Drawing Number 700-S619	Rev. J
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