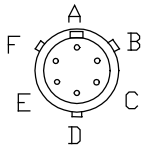
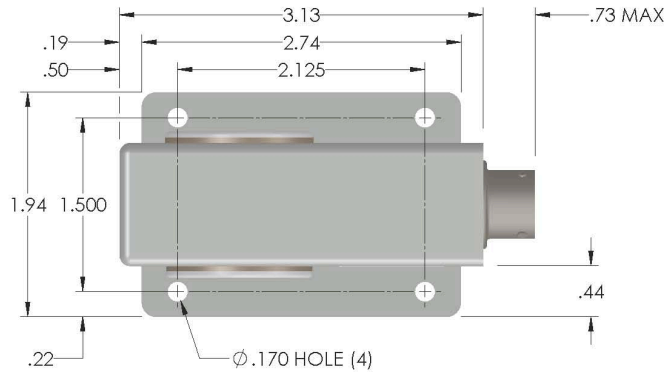


Dimensions in Inches, Tolerances: .XX ± .03 .XXX ± .010

**AC RMS CURRENT TRANSDUCER
PART NUMBER S1097**



CONNECTOR P/N
MS3113H-10C6P
OR EQUIV.

TERMINAL IDENTIFICATION

1. SUPPLY VOLTAGE (+)
2. SUPPLY VOLTAGE (RTN)
3. OUTPUT SIGNAL (RTN)
4. OUTPUT SIGNAL (+)
5. SPARE
6. SPARE

ORDERING INFORMATION

S1097 - **100**
.....
SERIES CURRENT RANGE
(20-250A in 5A steps)

INPUT CURRENT

RANGE 0 to 250Aac RMS (See Ordering Information)
CURRENT OVERLOAD 1000Aac Continuous (Nonlatching/Saturated Output)
FREQUENCY 360 TO 440Hz

OUTPUT

VOLTAGE SIGNAL 0 to 5Vdc FS (Full Scale)
ACCURACY ±1% FS (Over The Operating Temperature Range)
LINEARITY ±0.5% FS.
RIPPLE ±0.1% FS
CREST FACTOR Up to 4
RESPONSE TIME (10 to 90%) 250 m-sec.
OUTPUT IMPEDANCE 100 Ohms max.

POWER

POWER (28Vdc with 1.5V Peak ripple) . MIL-STD-704A "Cat B" Voltage range of 16 to +34Vdc
CURRENT DRAIN 15mAdc max.
REVERSE POLARITY PROTECTION ... 100uA Current Drain Without Damage

ENVIRONMENTAL AND PHYSICAL CHARACTERISTICS

OPERATING TEMPERATURE -55 to +85°C
STORAGE TEMPERATURE -55 to +85°C
HUMIDITY MIL-STD-810F, Method 507.4
TEMP, ALTIT,HUM & VIB MIL-STD-810F, Method 520.2 Procedure 3
RESONANCE SURVEY Per D724-1009-1 Rev A (Zone 4 Cockpit)
SINE ON RANDOM VIBRATION MIL-STD-810F, Method 514.4 Procedure 1, cat 14
ACCELERATION MIL-STD-810F, Method 513.5 Procedure 1 & 2
SHOCK CRASH HAZARD MIL-STD-810F, Method 516.5 Procedure 5
SHOCK BENCH HANDLING MIL-STD-810F, Method 516.5 Procedure 6
SHOCK FUNCTIONAL MIL-STD-810F, Method 516.5 Procedure 1
SHOCK TEMPERATURE MIL-STD-810F, Method 503.4 Procedure 1
EXPLOSIVE ATMOSPHERE MIL-STD-810F, Method 511.4 Procedure 1
EMI MIL-STD-461E
CE101 30Hz to 10Kz MIL-STD-461E,Para. 5.4
CE102 10Kz to 10MHz MIL-STD-461, Para. 5.5
CS101 30Kz to 150KHz MIL-STD-461, Para. 5.7
CS114 10KHz to 200MHz MIL-STD-461, Para. 5.12 (Curve 5)
CS115 MIL-STD-461E, Para. 5.13
CS116 10KHz to 100MHz MIL-STD-461E, Para.5.14
RE101 30Hz to 100KHz MIL-STD-461, Para. 5.15
RE102 10KHz to 18 GHz MIL-STD-461, Para. 5.16
RS101 30KHz to 100KHz, MIL-STD-461, Para. 5.18
RS103 14KHz to 40GHz MIL-STD-461, Para. 5.19
Radiated Susceptibility Table 1, Part A & B (200V/M)

WEIGHT 0.75lbs

NOTE: Specified accuracy includes the combined worst case effects of Zero Offset, Hysteresis, Supply Swings and Current Cable Positioning.

AAC	Drawing Number S1097	Rev. A
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