

NOTES

- 1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.
- 2.0 ALL RESISTORS ARE ±5% TOLERANCE.

ELECTRICAL SPECIFICATIONS:

- 1.0 TURNS RATIO: (P8-P6-P7) : (J3-J6) : 1CT : 1CT ±3%
(P4-P5-P3) : (J1-J2) : 1CT : 1CT ±3%
- 2.0 INDUCTANCE: (P7-P8) : 350uH MIN. @ 0.1V, 100KHZ, 8mA DC Bias
(P4-P3) : 350uH MIN. @ 0.1V, 100KHZ, 8mA DC Bias
- 3.0 LEAKAGE INDUCTANCE: P8-P7 (WITH J6 AND J3 SHORT) : 0.3uH MAX. @ 1MHZ
P4-P3 (WITH J2 AND J1 SHORT) : 0.3uH MAX. @ 1MHZ
- 4.0 INTERWINDING CAPACITANCE: (P8,P6,P7) TO (J6,J3) : 25pf TYP @ 1MHZ
(P4,P5,P3) TO (J2,J1) : 25pf TYP @ 1MHZ
- 5.0 DC RESISTANCE: (J6-J3)=(J2-J1) : 1.2 ohms Max.
- 6.0 RETURN LOSS:(P7-P8)=100 OHMS AND (P1-P2)=100 OHM REF.
1MHZ TO 30MHZ : -18dB MIN.
30MHZ TO 60MHZ : -(19-20 LOG (f/30MHz))
60MHZ TO 80MHZ : -12dB MIN.
- NOTE: 100 OHMS CONNECTED TO (J2-J1) OR (J6-J3).
- 7.0 DIELECTRIC WITHSTAND: (J1, J2) TO (P4, P3) : 1500 VAC
(J3, J6) TO (P8, P7) : 1500 VAC
- 8.0 INSERTION LOSS: RS=RL=100 ohms : -1 dB MAX
1-65MHZ
- 9.0 RISE TIME: RS=100 OHMS AND RL = 100 OHMS : 3.0 nS MAX
OUTPUT VOLTAGE = 1 V peak : 3.0 nS MAX
PULSE WIDTH= 112nS
- 10.0 CROSS TALK: 1-65MHZ : -35 dB MIN
- 11.0 COMMON TO COMMON MODE ATTENUATION: 1MHZ TO 100MHZ : -30dB MAX
: -20dB MAX



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Stewart Connector
Stewart Connector Systems
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6.0 RETURN LOSS: <P7-P8>=100 OHMS AND <P1-P2>=100 OHM REF.
1MHZ TO 30MHZ : -18dB MIN.
30MHZ TO 60MHZ : -<19-20 LOG (f/30MHZ)>
60MHZ TO 80MHZ : -12dB MIN.

NOTE: 100 OHMS CONNECTED TO <J2-J1> OR <J6-J3>.

7.0 VOLTAGE WITHSTAND:
<J1, J2> TO <P7, P8> : 1500 VAC
<J3, J6> TO <P1,P2> : 1500 VAC

8.0 INSERTION LOSS: RS=RL=100 ohms
1-65MHZ : -1 dB MAX

9.0 RISE TIME: RS=100 OHMS AND RL = 100 OHMS
OUTPUT VOLTAGE = 1 V peak : 3.0 nS MAX
PULSE WIDTH= 112nS : 3.0 nS MAX

10.0 CROSS TALK:
1-65MHZ : -35 dB MIN

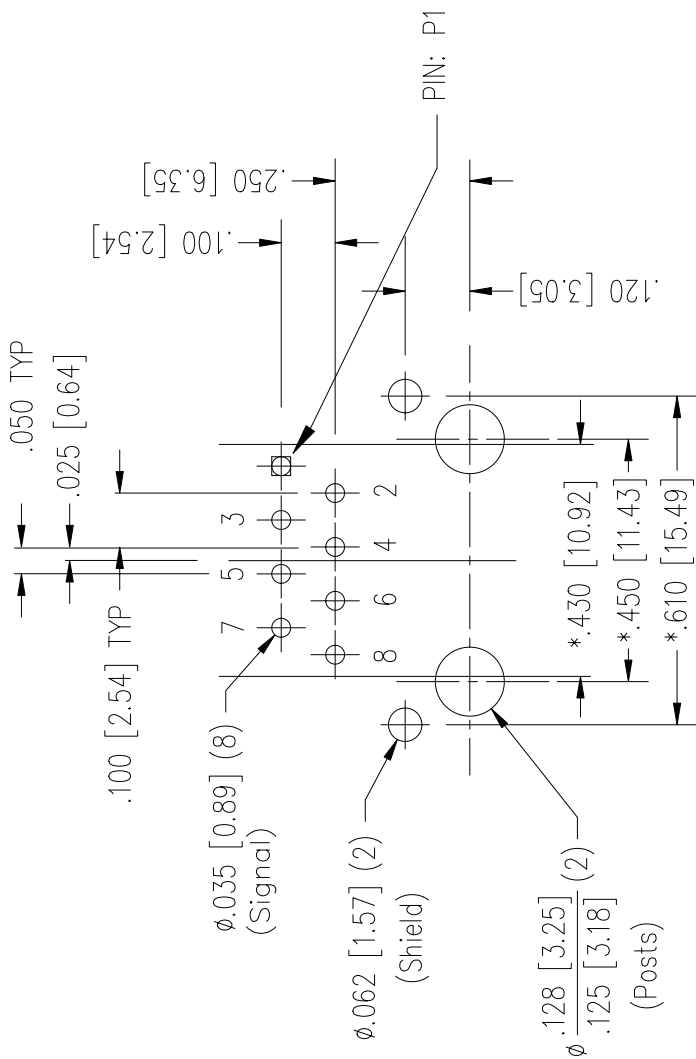
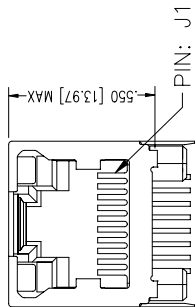
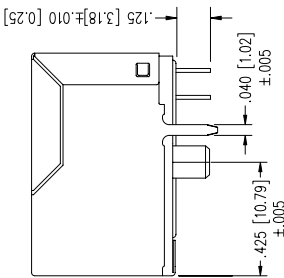
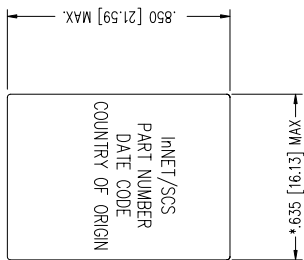
11.0 COMMON TO COMMON MODE ATTENUATION:
30MHZ TO 100MHZ : -30dB MAX
100MHZ TO 130MHZ : -20dB MAX



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P.C.B. RECOMMENDED HOLE LAYOUT
SEEN FROM COMPONENT SIDE

TOLERANCE ±.003 [0.08] UNLESS OTHERWISE SPECIFIED

NOTES:

- TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS
- DIMENSIONS SHOWN WITH "*" TO BE CENTRAL ABOUT CENTER LINE
- DIMENSIONS SHOWN ARE SUBJECT TO CHANGE WITHOUT NOTICE.
- PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED. SEE ELECTRICAL DRAWING FOR OMITTED PINS.
- STANDARD 50 MICRO-INCH SELECTIVE GOLD PLATING
- REFLOW COMPATIBLE - 230°C/90 SECS.


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SHEET 3 OF 3 DRAWING NO. SI-50105 REV. X