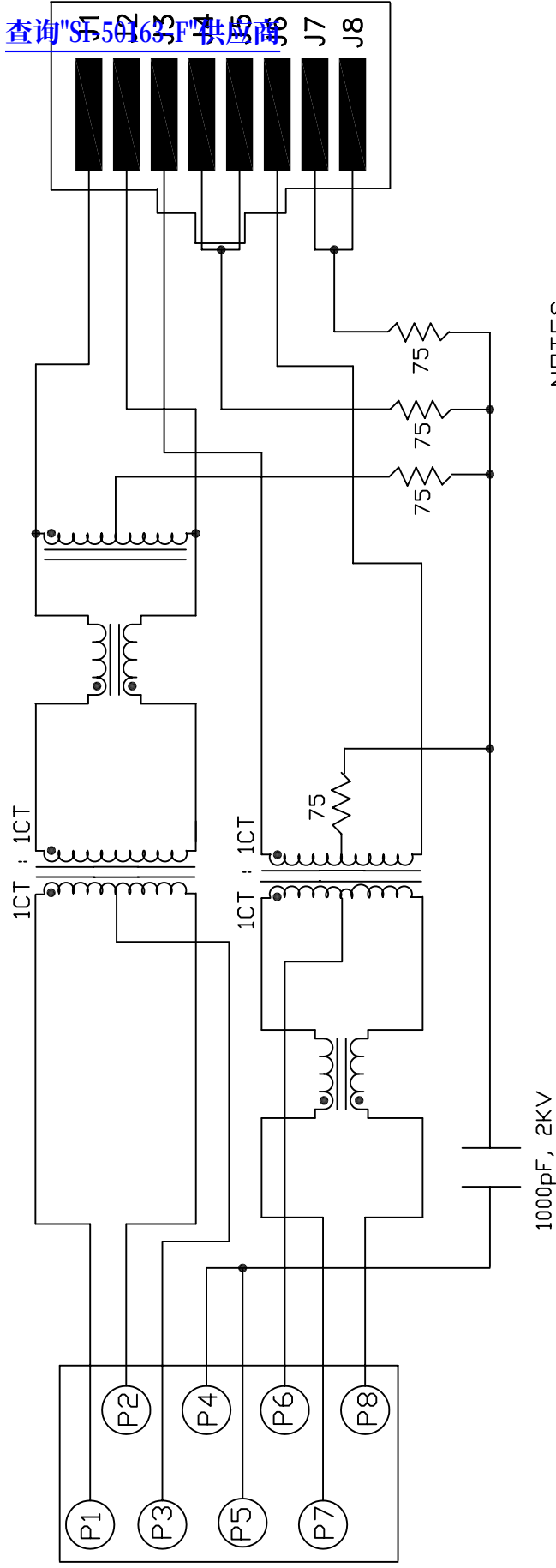


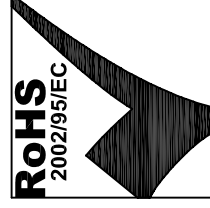


NOTES

1.0 ALL RESISTORS ARE $\pm 5\%$ TOLERANCE.

ELECTRICAL SPECIFICATIONS:

- 1.0 TURNS RATIO: (P7-P6-P8) : (J3-J6)
(P1-P3-P2) : (J1-J2)
: 1CT : 1CT $\pm 3\%$
: 1CT : 1CT $\pm 3\%$
- 2.0 INDUCTANCE: (P7-P8)
(P1-P2)
: 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
: 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
- 3.0 LEAKAGE INDUCTANCE: P7-P8 (WITH J6 AND J3 SHORT)
P1-P2 (WITH J2 AND J1 SHORT)
: 0.3uH MAX. @ 1MHz
: 0.3uH MAX. @ 1MHz
- 4.0 INTERWINDING CAPACITANCE: (P7,P6,P8) TO (J6,J3)
(P1,P3,P2) TO (J2,J1)
: 30pf TYP @ 1MHz
: 30pf TYP @ 1MHz
- 5.0 DC RESISTANCE: (J6-J3)=(J2-J1)
: 1.2 ohms Max.



Bel Stewart Connector
11118 Susquehanna Trail, South
Glen Rock, Pa 17327-9199
717.234.7512

MagJack®

<http://www.stewartconnector.com>

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SHEET
1 OF 3

DRAWING NO.

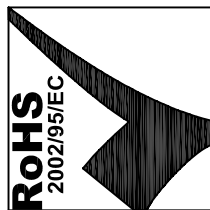
SI-50163-F

REV.

05

	RECEIVE
6.0 RETURN LOSS: (P7-P8)=100 OHMS AND (P1-P2) =100 OHM REF. 1MHz TO 30MHz 30MHz TO 60MHz 60MHz TO 80MHz	: -18dB MIN. : -(19-20 LOG (f/30MHz)) : 12dB MIN.
NOTE: 100 OHMS CONNECTED TO (J2-J1) OR (J6-J3).	
7.0 DIELECTRIC WITHSTAND: (J3, J6) TO (P7, P8) (J1, J2) TO (P1,P2)	: 1500 VAC : 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 PULSE WIDTH= 112nS	: 3.0 nS MAX : 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

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1. CONNECTOR MATERIALS:
HOUSING: THERMOPLASTIC UL94 V-0
CONTACT/SHIELD: COPPER ALLOY
SHIELD PLATING: NICKEL OR TIN
CONTACT PLATING: SELECTIVE GOLD,
50 MICRO-INCHES MIN. IN CONTACT AREA.
2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED.
SEE ELECTRICAL DRAWING FOR OMITTED PINS.
3. TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS.
4. ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE $\pm .005$ [0.13]
5. REFLOW AND WAVE SOLDER COMPATIBLE -260°C FOR
10 SECONDS MAX.

ALL CENTERLINE DIMENSIONS ARE BASIC.

**WITH A FORWARD CURRENT OF 20 mA (TYP)

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HEET	DRAWING NO.	REV.
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REV. 03