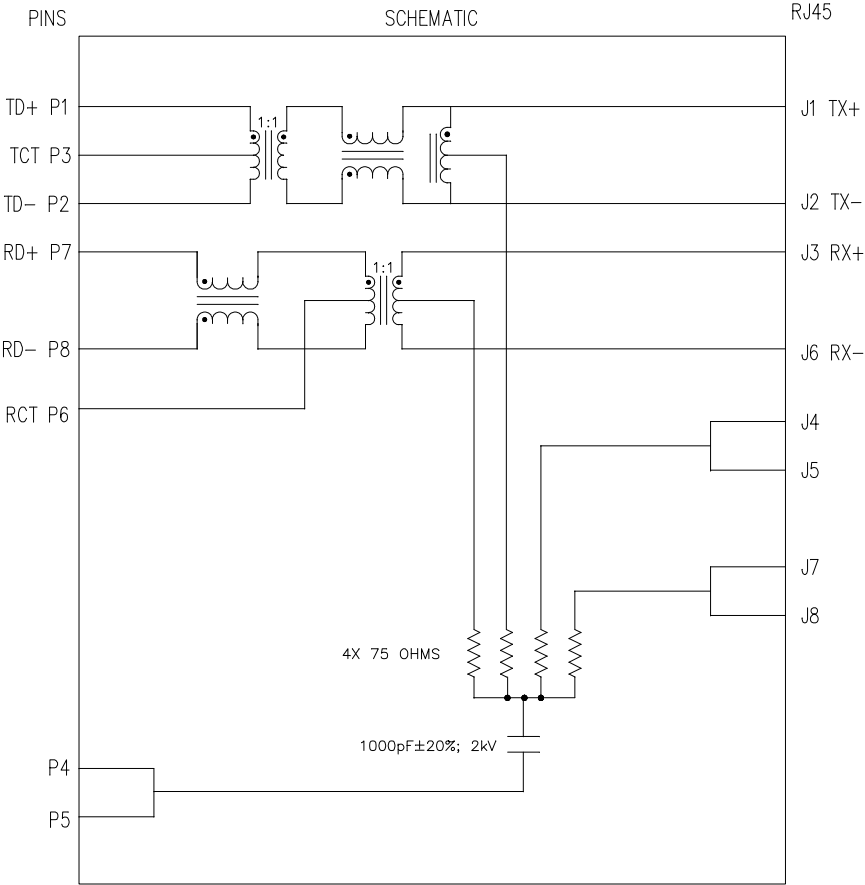


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ELECTRICAL CHARACTERISTICS @ 25°C

1.0	Turns Ratio: (P8–P6–P7) : (J6–J3)	: 1CT : 1 ± 3%
	(P2–P3–P1) : (J2–J1)	: 1CT : 1 ± 3%
2.0	Inductance: (P7–P8)	: 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
	(P1–P2)	: 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
3.0	Leakage Inductance: P8–P7 (WITH J6 AND J3 SHORT)	: 0.3 MAX. @ 1MHz
	P2–P1 (WITH J2 AND J1 SHORT)	: 0.3 MAX. @ 1MHz
4.0	Interwinding Capacitance: (P8,P6,P7) TO (J6,J3)	: 30pF MAX @ 1MHz
	(P3,P2,P1) TO (J2,J1)	: 30pF MAX. @ 1MHz
5.0	DC Resistance: (J1–J2)	: 1.2 ohms Max.
	(P8–P7)	: 1.2 ohms Max.
6.0	Return Loss: 1MHz TO 30MHz	: –18dB MIN.
	30MHz TO 60MHz	: –(19–20 LOG (f/30MHz))
	60MHz TO 80MHz	: –12dB MIN.
7.0	Dielectric Withstand: (J1, J2) TO (P1, P3)	: 1500 Vrms
	(J3, J6) TO (P8,P7)	: 1500 Vrms
8.0	Insertion Loss: RS=RL=100 ohms	
	1MHz TO 65MHz	: –1.0 dB MAX
	65MHz TO 100MHz	: –1.1 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: 1MHz TO 100MHz	: –35 dB TYP
11.0	Common to Common Mode Attenuation:	
	1MHz TO 100MHz	: –45dB TYP
	100MHz TO 200MHz	: –20dB MIN

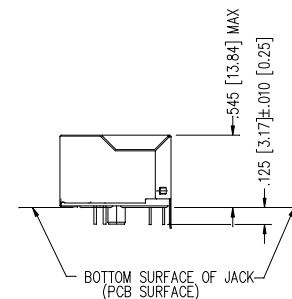
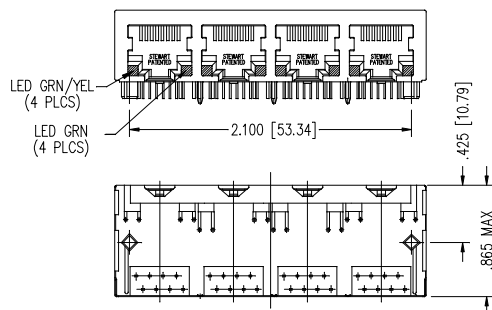
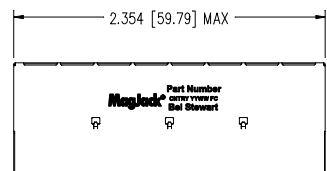
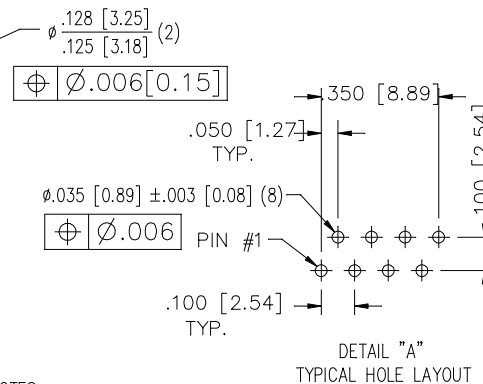
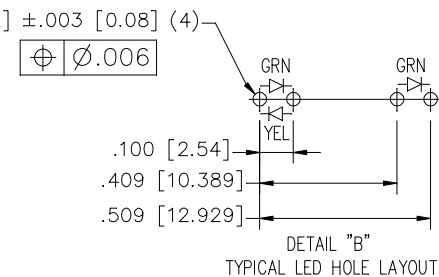
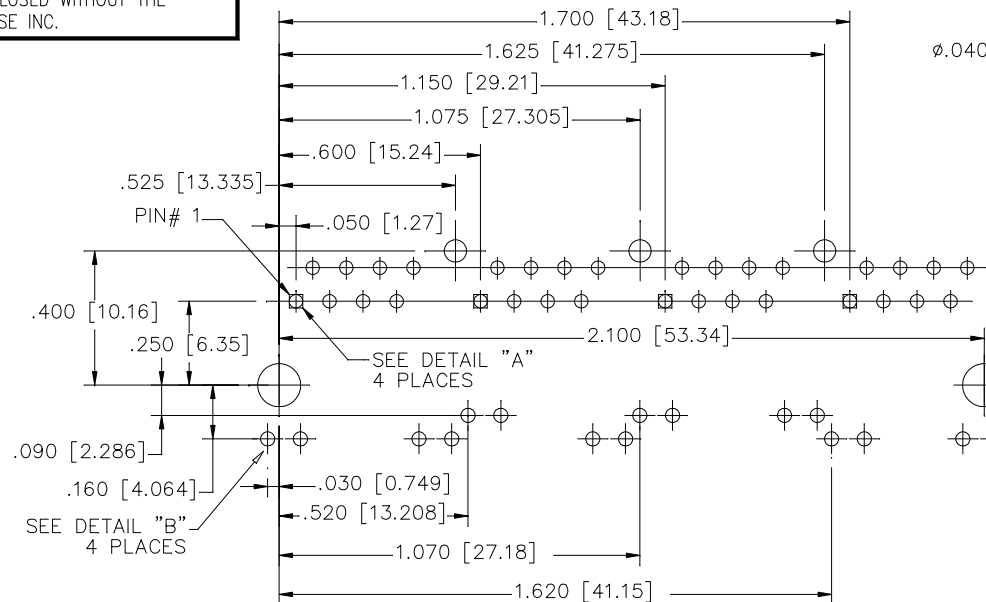


NOTES

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

ORIGINATED BY	DATE	TITLE MagJack® 10/100BT TAB DOWN, SHIELDED	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		bel COMPONENTS OF A CONNECTED PLANET®
Bain Liu	09-29-08		SI-60049	TOL. IN INCH		UNIT : INCH [mm]	REV. : A0	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
LW Yuan	09-29-08		SI-60049.DWG	.XX			PAGE : 1	
			.XXX	±0.005				

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STANDARD LED	WAVELENGTH	FORWARD V (MAX)	* (TYP)
YELLOW	590 nm	2.5 V	2.1 V
GREEN	565 nm	2.5 V	2.2 V

* WITH A FORWARD CURRENT OF 20 mA (TYP)

NOTES:

- 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.
- PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED.
SEE ELECTRICAL DRAWING FOR OMITTED PINS.
- TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS.
- ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ± 0.005 [0.13]
- REFLOW AND WAVE SOLDER COMPATIBLE -260°C FOR 10 SECONDS MAX.

ORIGINATED BY	DATE	TITLE MagJack® 10/100BT TAB DOWN, SHIELDED	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		bel COMPONENTS FOR A CONNECTED PLANET
Bain Liu	09-29-08		SI-60049	TOL. IN INCH		UNIT : INCH [mm]	REV. : A0	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
LW Yuan	09-29-08	SI-60049.DWG	.XX				PAGE : 2	
			.XXX	±0.005				