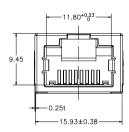
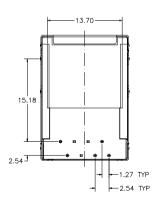
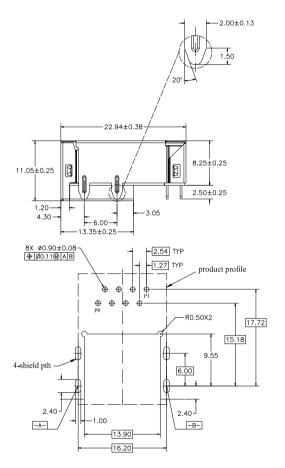
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SUGGESTED CUSTOMER BOARD LAYOUT

NOTES:

Material:

- 1. Housing Material: THERMOPLASTIC UL94V-0 (BLACK COLOR)
- 2. Contact Mateial: Phosphor Bronze T=0.35mm (C5191)
- 3. Plating:: Contact Area- Selection Gold Plating 30U".
- 4. Shield: Copper Alloy 0.20mm Thickness Plating Ni.

Feature:

- 1. RJ45 10/100Base-Tx Transformer Jack With Transformer /Impedance Resistor/High Voltage Capacitor.
- 2. Designed To Meet IEEE 802.3u Requirement.
- 3. Designed For 100 Base Transmission over UTP-5 Cable.
- 4. Operation Temprature Range: 0° C To +70° C

Mechanical:

- 1. Operating Life: 1000 Cycles Min.
- 2. PCB Retention Pre-Solder: 1 Lb Min.

Environmental:

1. Storage: -40° C To $+85^{\circ}$ C.

Mates With Modular Plug Conforming To Fcc Part 68, Subpart F.

P01-1AA2-01 PART NUMBER

drawn Jarry ye /	24Apr2024 FRANK LIU	TITLE
CHECKED BILL LIU	24Apr2024	
APPROVED Tony yuan	24Apr2024	

10/100 BT MagJack [®] (WITHOUT LED) PATENTED

DRAWING NO.	UNLESS OTHERWISE NOTED, TOL:		⊕-⊟		
P01-1AA2	X.	±0.38	SIZE:	A4	
FILE NAME	.X	±0.38	UNIT:	mm	
P01-1AA2 1.DWG	.XX	±0.25	SCALE:	N/A	
PUI-TAAZ_T.DWG	.XXX	±0.13	PAGE: 1/3	REV.: 1	



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1CT:1CT (J1) TX+ TD+ CT TX-TD-1CT:1CT (J3) RX+ RD+4(J6) RX-RD-(6) 75Ω NC (7) 75Ω $\sqrt{\Lambda}$ CHS GND

1000pF+/-20% 2KV

Electrical Specification @ 25 °C

1.0 TURN RATIO: (P1^P3): (J1^J2) :1:1±3% (P4^P6): (J3^J6) :1:1±3%

2.0 INDUCTANCE: (P1~P3) 350uH MIN @ 0.1V, 100KHZ, 8mA DC BIAS (P4~P6) 350uH MIN @ 0.1V, 100KHZ, 8mA DC BIAS

3. O LEAKAGE INDUCTANCE:P1~P3 (WITH J1 AND J2 SHORT) :0. 35uH MAX @1 MHZ
P4~P6 (WITH J3 AND J6 SHORT) :0. 35uH MAX @1 MHZ

4. 0 INTERWINDIND: CAPACITANCE: (P1^P3): (J1^J2) :35pF MAX @ 1MHZ

(P4~P6): (J3~J6) :35pF MAX @ 1MHZ

5. 0 DC RESISTANCE: (J1~J2): (J3~J6) :1. 2 OHMS MAX

6.0 RETURN LOSS: 1MHZ TO 30MHZ :18dB MIN 30MHZ TO 60MHZ :15dB MIN 60MHZ TO 80MHZ :12dB MIN :12dB MIN

7. 0 DIELECTRIC WITHSTAND: $(P1^P3)$: $(J1^J2)$:1500VAC

 $(P4^P6): (J3^J6)$: 1500VAC

8.0 INSERTION LOSS:RS=RL=100 OHM

1KHZ TO 85MHZ :1.1dB MAX

9. 0 CROSS TALK: 1MHZ TO 80MHZ :30dB MIN
10. 0 COMMON TO COMMON MODE ATTENUATION: 1MHZ TO 80MHZ :30dB MIN

DRAWN JARRY YE /	24Apr2024 / FRANK LIU	TITLE	10/100 BT MagJack ®	DRAWING NO.		OTHERWISE ED, TOL:	-[\Rightarrow
CHECKED	24Apr2024	1	(WITHOUT LED)	P01-1AA2	X.	±0.38	SIZE:	A4
BILL LIU			PATENTED	FILE NAME	.X	±0.38	UNIT:	mm
APPROVED	24Apr2024	1	1 / (1 2 1 1 1 2 2	P01-1AA2_1.DWG	.XX	±0.25	SCALE:	N/A
TONY YUAN	·			FUT-TAAZ_T.DWG	.XXX	±0.13	PAGE: 2/3	REV.: 1



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	CHANGE HISTORY					
ISSUE	DATE	DESCRIPTIN OF CHANGE	REASON	DRAWN	APPROVAL	ECN#
1	24APR2024	_	INITIAL RELEASE	JARRY YE	TONY YUAN	_

DRAWN	p u	TITLE
JARRY YE /	FRANK LIU	
CHECKED	24Apr2024	
BILL LIU	·	
APPROVED	24Apr2024	
TONY YUAN		

10/100 BT MagJack [®]
(WITHOUT LED)
PATENTED

DRAWING NO.	UNLESS OTHERWISE NOTED, TOL:		⊕-⊟		
P01-1AA2	X.	±0.38	SIZE:	A4	
FILE NAME	.X	±0.38	UNIT:	mm	
P01-1AA2 1.DWG	.XX	±0.25	SCALE:	N/A	
PUI-TAAZ_T.DWG	.XXX	±0.13	PAGE: 3/3	REV.: 1	

