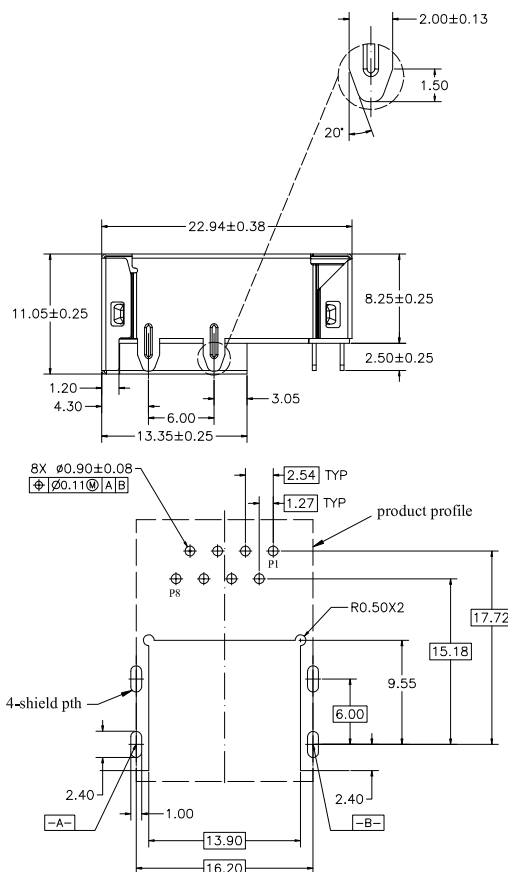
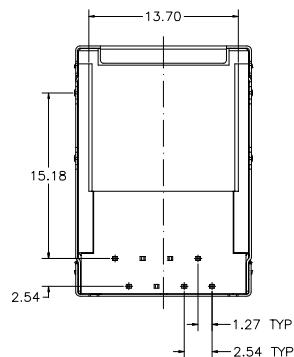
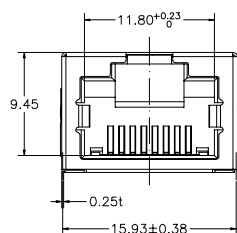
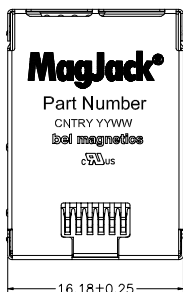
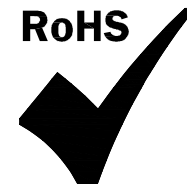


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RoHS



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 Temptrature 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° C.
- Mates With Modular Plug Conforming To Fcc Part 68, Subpart F.

P01-1AA2-01

PART NUMBER

DRAWN 24Apr2024
JARRY YE / FRANK LIU

CHECKED 24Apr2024
BILL LIU

APPROVED 24Apr2024
TONY YUAN

TITLE

10/100 BT MagJack®
(WITHOUT LED)
PATENTED

DRAWING NO.

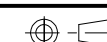
P01-1AA2

FILE NAME

P01-1AA2_1.DWG

UNLESS OTHERWISE
NOTED, TOL:

X.	±0.38
.X	±0.38
.XX	±0.25
.XXX	±0.13



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UNIT:	mm
SCALE:	N/A
PAGE: 1/3	REV.: 1



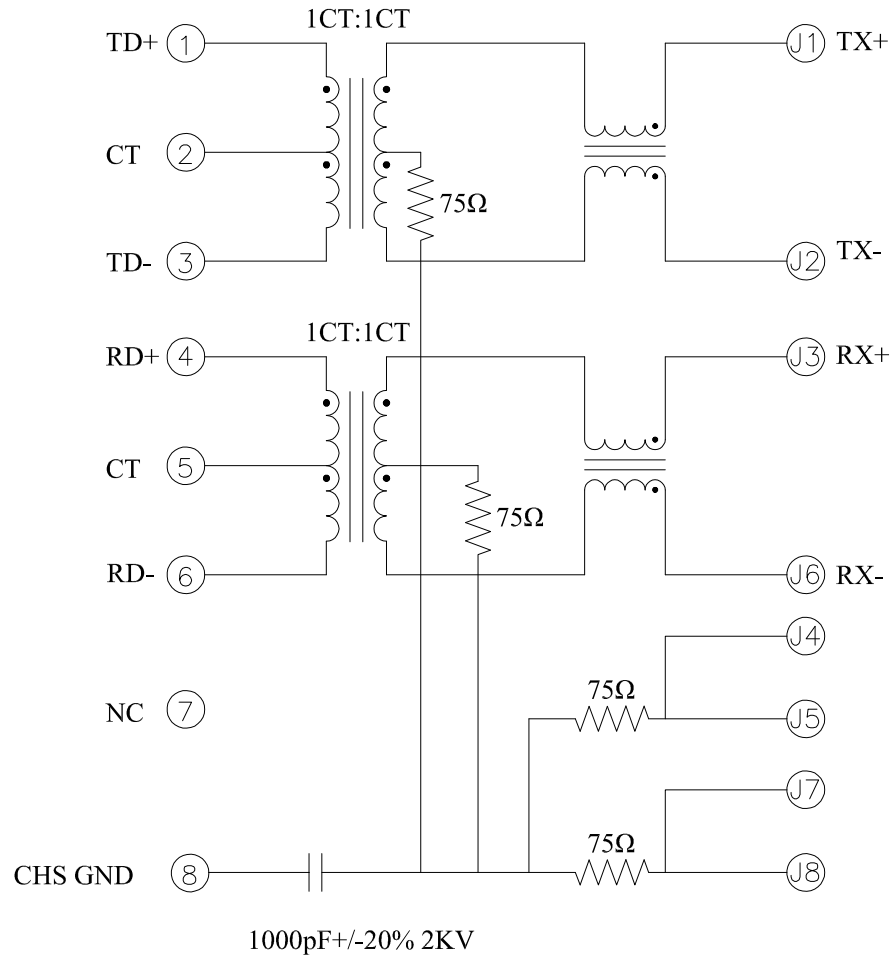
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Electrical Specification @ 25 °C

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
3.0 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 INTERWINDING 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
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	24Apr2024
JARRY YE / FRANK LIU	
CHECKED	24Apr2024
BILL LIU	
APPROVED	24Apr2024
TONY YUAN	

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

DRAWING NO.
P01-1AA2

FILE NAME
P01-1AA2_1.DWG

UNLESS OTHERWISE
NOTED, TOL:

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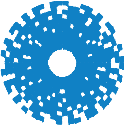
CHANGE HISTORY						
ISSUE	DATE	DESCRIPTIN OF CHANGE	REASON	DRAWN	APPROVAL	ECN#
1	24APR2024	—	INITIAL RELEASE	JARRY YE	TONY YUAN	—

DRAWN	24Apr2024
JARRY YE /	FRANK LIU
CHECKED	24Apr2024
BILL LIU	
APPROVED	24Apr2024
TONY YUAN	

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UNLESS OTHERWISE NOTED, TOL:			
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.X	±0.38	UNIT:	mm
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MAGNETIC SOLUTIONS