

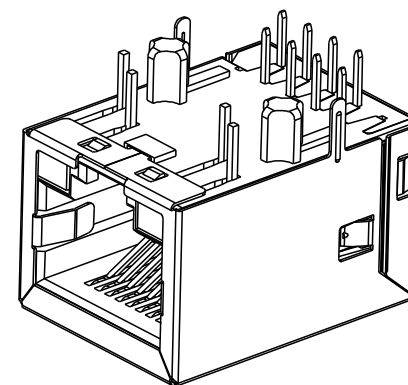
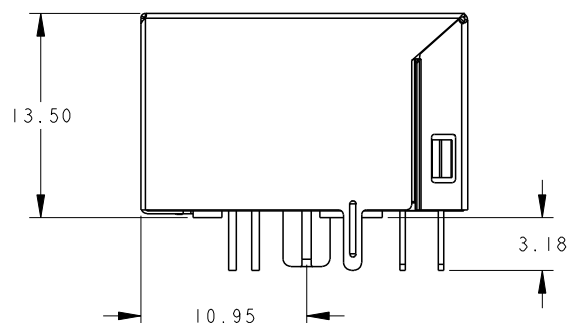
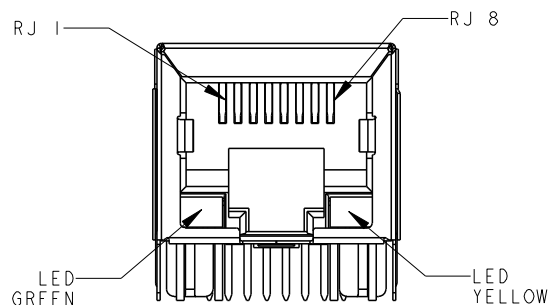
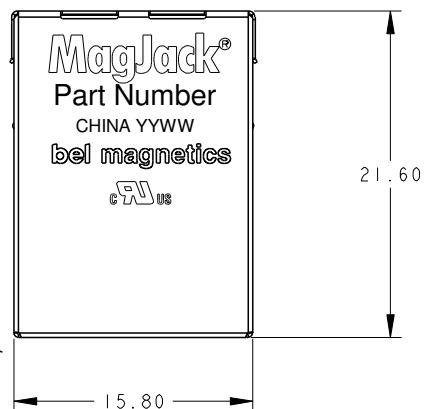
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NOTE:

- CONNECTOR MATERIALS:  
HOUSING: THERMOPLASTIC UL94 V-0  
CONTACT: COPPER ALLOY  
SHIELD: STAINLESS STEEL, SUS304, 1.27um NICKEL PLATING, TIN DIPPING ON GROUND PINS  
CONTACT PLATING: 1.27um MIN. OVERALL NICKEL UNDERPLATE AND SELECTIVE 0.15/0.38/1.27um HARD GOLD PLATING AT MATING AREA
- RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUB PART F.
- THE PRODUCT IS RoHS COMPLIANT.
- THE PART IS RECOMMENDED FOR WAVE SOLDERING:  
THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.



1.27	P01-0001-03
0.38	P01-0001-02
0.15	P01-0001-01
AU PLATING THICKNESS (um)	PART NUMBER

DRAWN 2023-11-10  
TOWER YU / FRANK LIU  
CHECKED 2023-11-10  
BILL LIU  
APPROVED 2023-11-10  
TONY YUAN

TITLE  
1X1 10/100BT MAGJACK  
TAB DOWN, SHIELDED

DRAWING NO.

P01-0001

FILE NAME

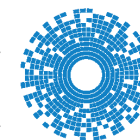
P01-0001.DRW

UNLESS OTHERWISE NOTED, DIM. TOL.:

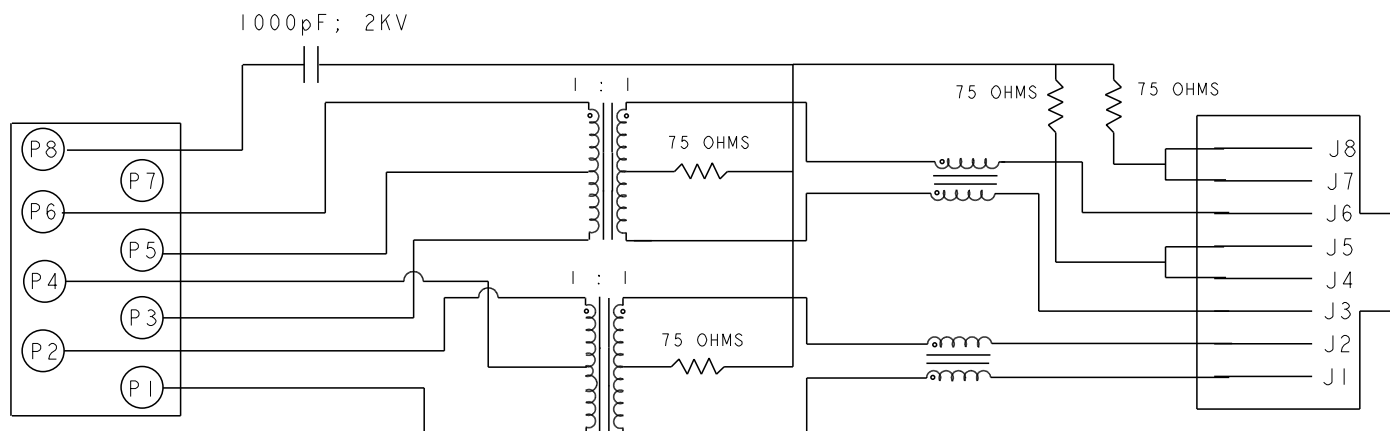
X.	±0.25
.X	±0.25
.XX	±0.25
.XXX	±0.25



SIZE:	A4
UNIT:	mm
SCALE:	NA
PAGE:	1 / 4
REV.:	1



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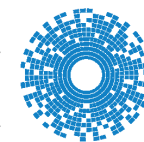
### ELECTRICAL SPECIFICATIONS:

#### 1. MAGNETICS

- APPLICATION: 10/100 BASE-T
- IMPEDANCE: 100 OHMS
- TURNS RATIO (CHIP:CABLE): TX=1:1, RX=1:1
- OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, TX AND RX
- PERFORMANCE @ 25°C:
  - INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
  - RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 30MHz  
18-20LOG(f/80)dB MIN FROM 30.1MHz TO 60MHz  
12dB MIN FROM 60.1MHz TO 80MHz
  - CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz  
33-20LOG(f/50)dB MIN FROM 40.1MHz TO 100MHz
  - COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
- ISOLATION VOLTAGE: 2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC

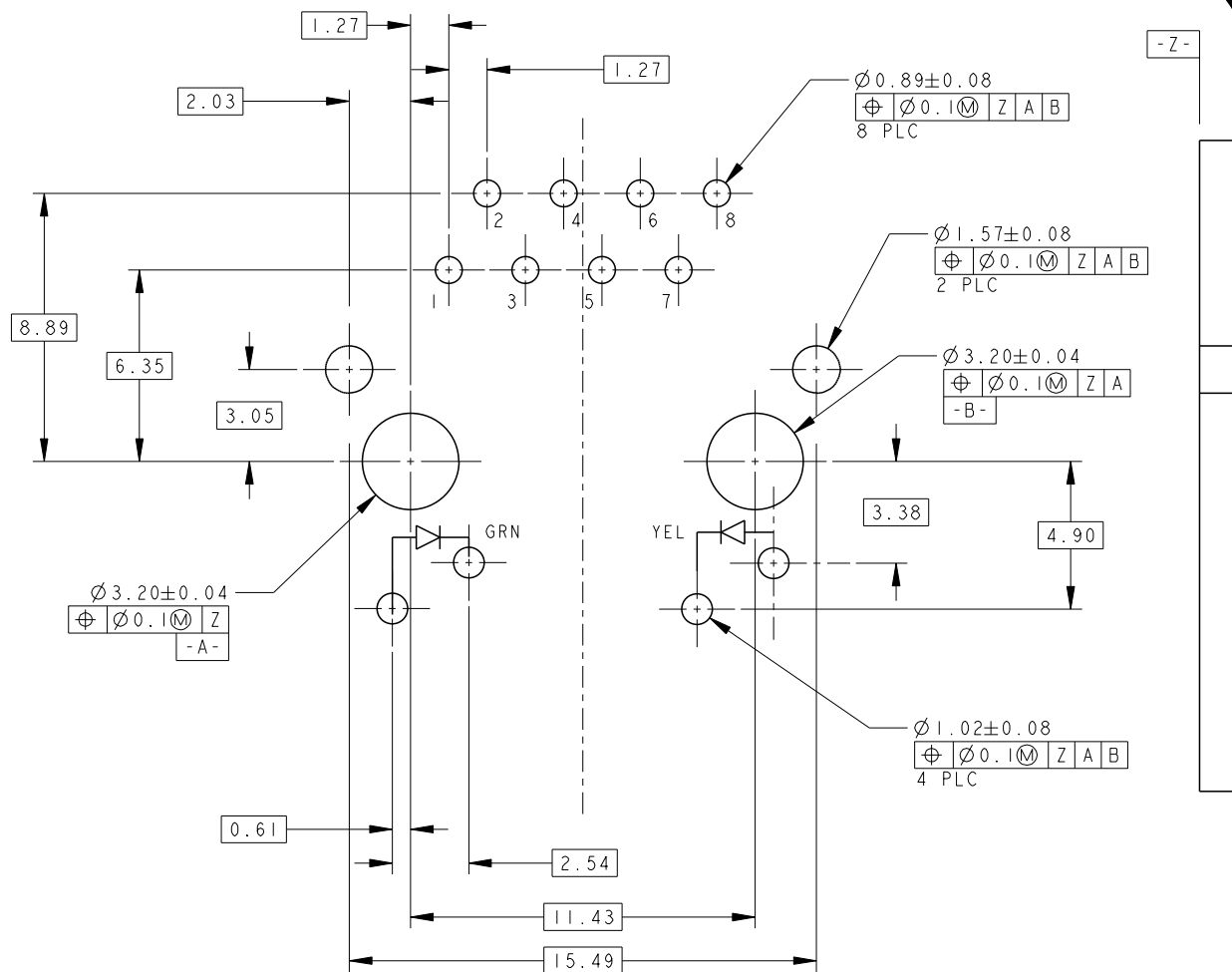
#### 2. OPERATING TEMPERATURE: FROM 0°C TO 70°C



<b>DRAWN</b> 2023-11-10 TOWER YU / FRANK LIU	<b>TITLE</b> 1X1 10/100BT MAGJACK TAB DOWN, SHIELDED	<b>DRAWING NO.</b> P01-0001	<b>UNLESS OTHERWISE NOTED, DIM. TOL.:</b>			
<b>CHECKED</b> 2023-11-10 BILL LIU		<b>FILE NAME</b> P01-0001.DRW	X.	±0.25	SIZE:	A4
<b>APPROVED</b> 2023-11-10 TONY YUAN			.X	±0.25	UNIT:	mm
			.XX	±0.25	SCALE:	NA
			.XXX	±0.25	PAGE:	2 / 4
					REV.:	1



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LED SPECIFICATION			
STANDARD LED	WAVELENGTH	Forward V (MAX)	*(TYP)
GREEN	568 nm	2.5 V	2.2 V
YELLOW	588 nm	2.5 V	2.1 V
*WITH A FORWARD CURRENT OF 20 mA (TYP)			

PCB RECOMMENDED HOLE LAYOUT  
(SEEN FROM COMPONENT SIDE)

<b>DRAWN</b> 2023-11-10 TOWER YU / FRANK LIU	<b>TITLE</b>  IXI 10/100BT MAGJACK TAB DOWN, SHIELDED	<b>DRAWING NO.</b>  P01-0001	UNLESS OTHERWISE NOTED, DIM. TOL. : 		 <div><b>bel</b> MAGNETIC SOLUTIONS a bel group</div>	
<b>CHECKED</b> 2023-11-10 BILL LIU		<b>FILE NAME</b>  P01-0001.DRW	X.	±0.25		SIZE : A4
<b>APPROVED</b> 2023-11-10 TONY YUAN			.X	±0.25		UNIT : mm
			.XX	±0.25		SCALE : NA
			.XXX	±0.25		PAGE : 3 / 4 REV. : 1

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CHANGE HISTORY						
ISSUE	DATE	DESCRIPTION OF CHANGE	REASON	DRAWN	APPROVAL	ECN#
1	2023-11-10	INITIAL RELEASE	-	TOWER YU	TONY YUAN	-

DRAWN	2023-11-10
TOWER YU / FRANK LIU	
CHECKED	2023-11-10
BILL LIU	
APPROVED	2023-11-10
TONY YUAN	

TITLE
IXI 10/100BT MAGJACK TAB DOWN, SHIELDED

DRAWING NO.
P01-0001
FILE NAME
P01-0001.DRW

UNLESS OTHERWISE NOTED, DIM. TOL. :			
X.	±0.25	SIZE :	A4
.X	±0.25	UNIT :	mm
.XX	±0.25	SCALE :	NA
.XXX	±0.25	PAGE :	4 / 4
		REV. :	1



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