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RoHS



NOTE:

1. CONNECTOR MATERIALS:

HOUSING: THERMOPLASTIC UL94 V-0

CONTACT: COPPER ALLOY

SHIELD: COPPER ALLOY, 1.27um NICKEL PLATING, TIN DIPPING ON GROUND PINS

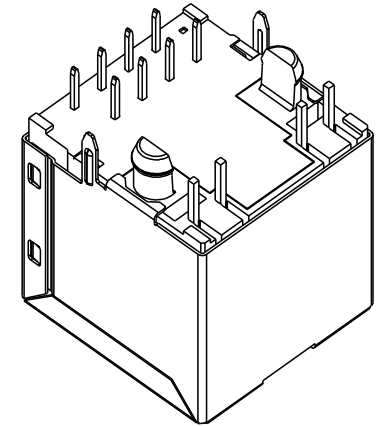
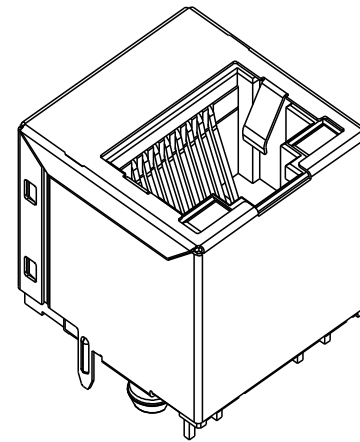
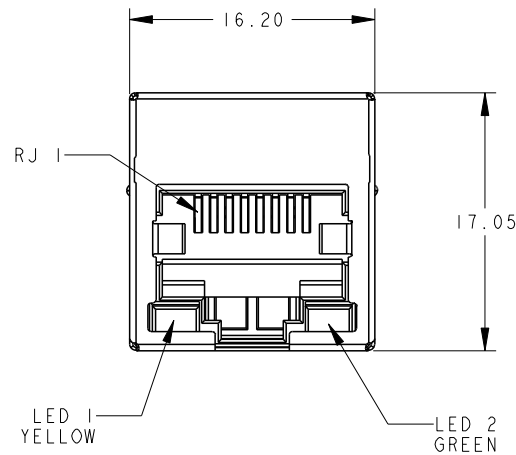
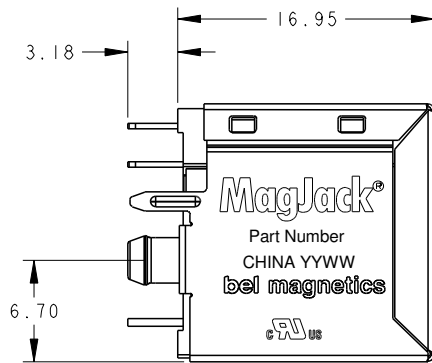
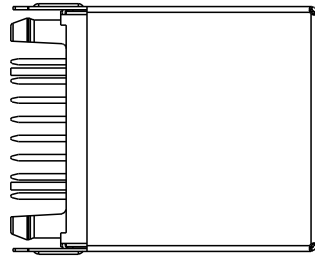
CONTACT PLATING: 1.27um MIN. OVERALL NICKEL UNDERPLATE AND SELECTIVE 1.27um HARD GOLD PLATING AT MATING AREA

2. RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUB PART F.

3. THE PRODUCT IS RoHS COMPLIANT.

4. THE PART IS RECOMMENDED FOR WAVE SOLDERING:

THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.



ANODE ON RIGHT	P01-0003-02
ANODE ON LEFT	P01-0003-01
LED POLARITY	PART NUMBER

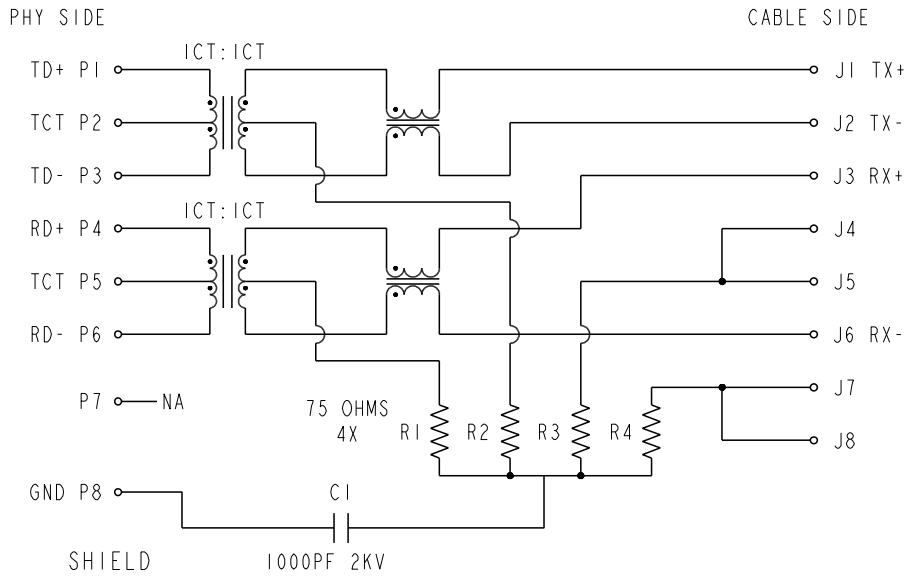
DRAWN	2023-11-28
TOWER YU / FRANK LIU	
CHECKED	2023-11-28
BILL LIU	
APPROVED	2023-11-28
TONY YUAN	

TITLE	IXI 10/100BT MAGJACK EXTENDED TEMPERATURE VERTICAL, SHIELDED, W/LEDS
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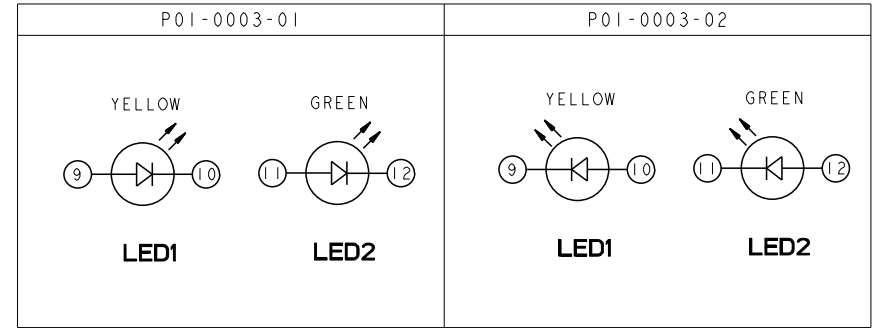
DRAWING NO.	P01-0003
FILE NAME	P01-0003.DRW

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





LED POLARITY DETAIL



ELECTRICAL CHARACTERISTICS @ 25°C

1. MAGNETICS

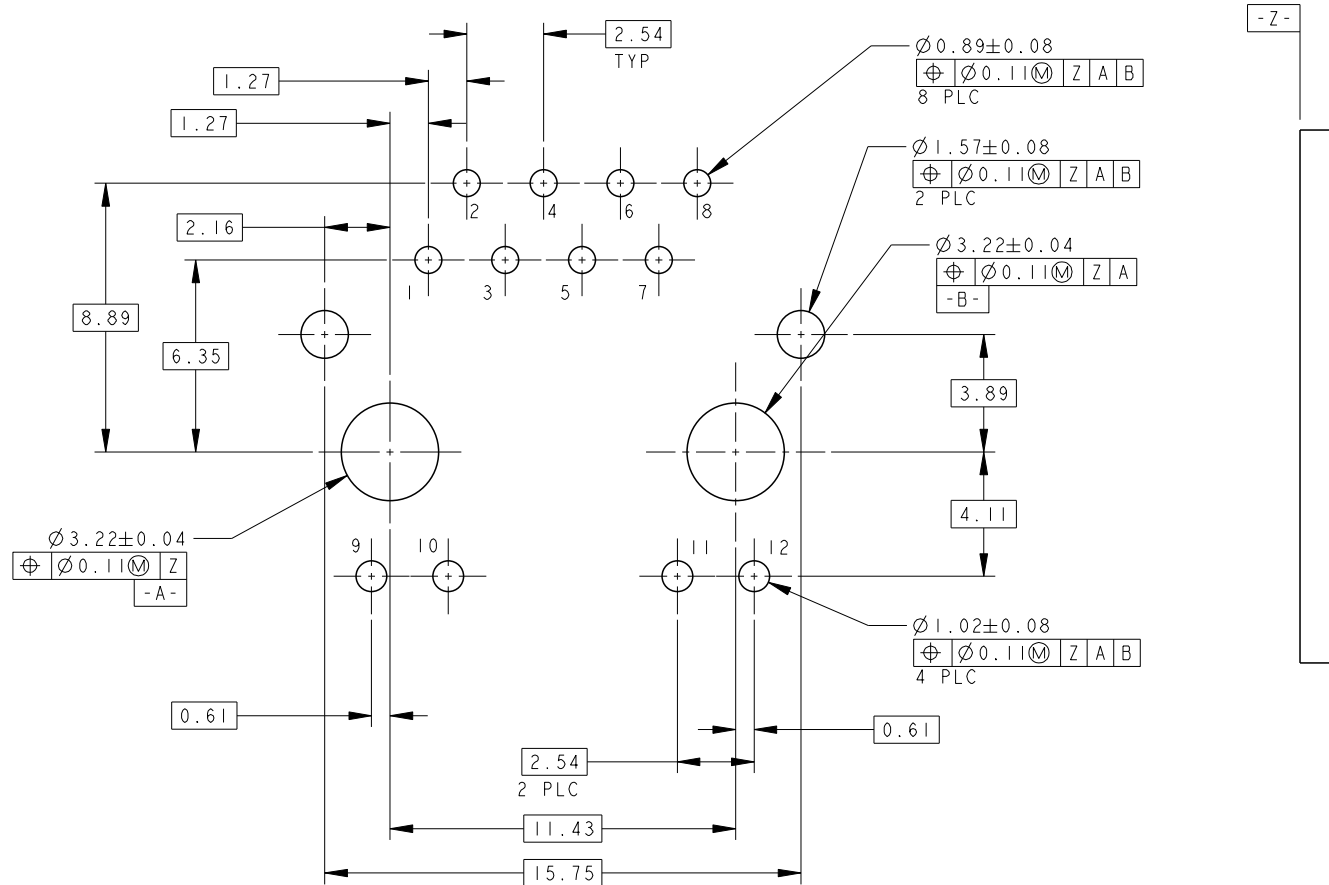
- APPLICATION: 10/100 BASE-T, EXTENDED TEMPERATURE
- IMPEDANCE: 100 OHMS
- TURNS RATIO (CHIP:CABLE): TX=1:1, RX=1:1
- OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM -40°C TO 85°C, TX AND RX
- PERFORMANCE @ 25°C:
  - INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
  - 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 -40°C TO 85°C

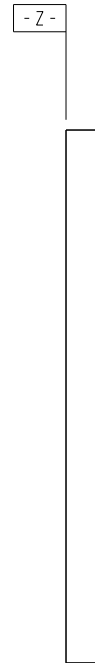
LED SPECIFICATION			
STANDARD LED	WAVELENGTH	Forward V (MAX)	*(TYP)
GREEN	568 nm	2.5 V	2.2 V
YELLOW	588 nm	2.5 V	2.1 V

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

<b>DRAWN</b> TOWER YU / FRANK LIU	2023-11-28	<b>TITLE</b> IXI 10/100BT MAGJACK EXTENDED TEMPERATURE VERTICAL, SHIELDED, W/LEDS	<b>DRAWING NO.</b> P01-0003	<b>UNLESS OTHERWISE NOTED, DIM. TOL.:</b> X. ±0.25 .X ±0.25 .XX ±0.25 .XXX ±0.25		<b>SIZE:</b> A4		<b>MAGNETIC SOLUTIONS</b> a bel group
<b>CHECKED</b> BILL LIU	2023-11-28		<b>FILE NAME</b> P01-0003.DRW					
<b>APPROVED</b> TONY YUAN	2023-11-28				<b>SCALE:</b> NA	<b>PAGE:</b> 2 / 4	<b>REV.:</b> 1	



PCB RECOMMENDED HOLE LAYOUT  
(SEEN FROM COMPONENT SIDE)



<b>DRAWN</b>	2023-11-28
TOWER YU / FRANK LIU	
<b>CHECKED</b>	2023-11-28
BILL LIU	
<b>APPROVED</b>	2023-11-28
TONY YUAN	

<b>TITLE</b>	IXI 10/100BT MAGJACK EXTENDED TEMPERATURE VERTICAL, SHIELDED, W/LEDS
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<b>DRAWING NO.</b>	<b>P01-0003</b>
<b>FILE NAME</b>	P01-0003.DRW

<b>UNLESS OTHERWISE NOTED, DIM. TOL.:</b>			
.X	±0.25	<b>SIZE:</b>	A4
.X	±0.25	<b>UNIT:</b>	mm
.XX	±0.25	<b>SCALE:</b>	NA
.XXX	±0.25	<b>PAGE:</b>	3 / 4
		<b>REV.:</b>	1

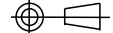


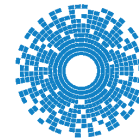
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CHANGE HISTORY						
ISSUE	DATE	DESCRIPTION OF CHANGE	REASON	DRAWN	APPROVAL	ECN#
1	2023-11-28	INITIAL RELEASE	-	TOWER YU	TONY YUAN	-

<b>DRAWN</b> 2023-11-28 TOWER YU / FRANK LIU	<b>TITLE</b> IXI 10/100BT MAGJACK EXTENDED TEMPERATURE VERTICAL, SHIELDED, W/LEDS	<b>DRAWING NO.</b> <b>P01-0003</b>	<b>UNLESS OTHERWISE NOTED, DIM. TOL. :</b>		 <b>SIZE :</b> A4 <b>UNIT :</b> mm <b>SCALE :</b> NA <b>PAGE :</b> 4 / 4 <b>REV. :</b> 1
<b>CHECKED</b> 2023-11-28 BILL LIU		<b>FILE NAME</b> P01-0003.DRW	X	±0.25	
<b>APPROVED</b> 2023-11-28 TONY YUAN			.X	±0.25	
			.XX	±0.25	
		.XXX	±0.25		



**bel** MAGNETIC SOLUTIONS  
a bel group