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NOTE:

I. CONNECTOR MATERIALS:

HOUSING: THERMOPLASTIC UL94 V-0

CONTACT: COPPER ALLOY

CONTACT PLATING: 1.27um MIN. OVERALL NICKEL UNDERPLATE AND

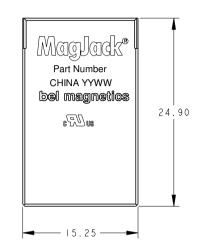
SELECTIVE 0.38 um HARD GOLD PLATING AT MATING AREA

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

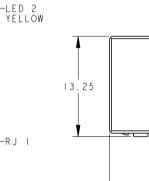
3. THE PRODUCT IS ROHS COMPLIANT.

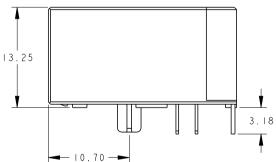
4. THE PART IS RECOMMENDED FOR WAVE SOLDERING:
THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND IO SECONDS MAX.

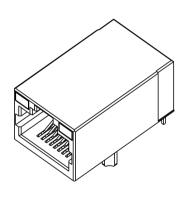
5. POI-0007-01 SHOWN UNLESS OTHERWISE NOTED.



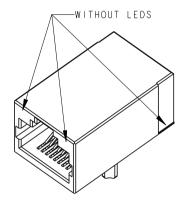
TITLE











RoHS

P01-0007-02

WITHOUT	P01-0007-02
WITH	P01-0007-01
LEDs	PART NUMBER

DRAWN	2023-11-16
TOWER YU /	FRANK LIU
CHECKED	2023-11-16
BILL LIU	
APPROVED	2023-11-16
TONY YUAN	

DC00X(2)230214

LED I-GREEN

IXI IO/IOOBT MAGJACK
TAB UP, UNSHIELDED
W/LEDS

DRAWING NO.		OTHERWISE DIM. TOL. :	\oplus		
P01-0007	X.	±0.25	SIZE:	14	
FILE NAME	.X	±0.25	UNIT: m	m	
DOL OOO7 DDW	.XX	±0.25	SCALE: N	Α	
P01-0007.DRW	.XXX	±0.25	PAGE: 5	REV.:	





ELECTRICAL CHARACTERISTICS @ 25°C

I. MAGNETICS

DC00X(2)230214

- -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): I.IdB MAX FROM 0.5MHz TO 100MHz RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 30MHz

18-20LOG(f/80)dB MIN FROM 30.IMHz TO 60MHz

12dB MIN FROM 60.IMHz TO 80MHz

CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz

33-20LOG(f/50)dB MIN FROM 40.IMHz TO IOOMHz

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

FOR POI-0007-01

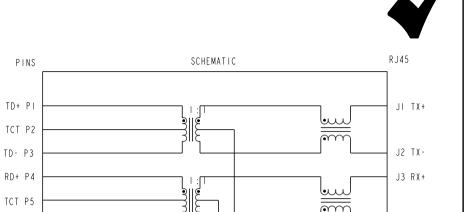




LED1

LED2

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.I V		
*WITH A FORWAR	D CURRENT OF	20 mA (TYP)			



RoHS

J6 RX-

J4

J7

J8

NOTES

RD- P6

I.O PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

4 X 75 OHMS ≥

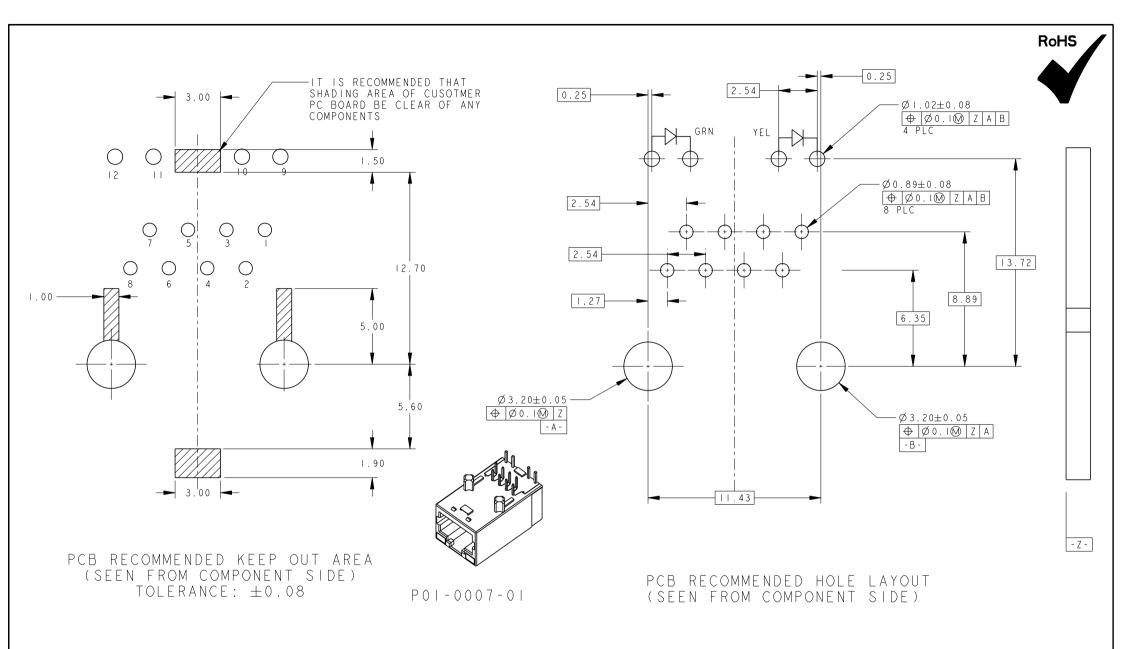
1000pF 2kV

DRAWN	2023-11-16	LE DRAWING NO.		DRAWING NO. UNLESS OTHER NOTED, DIM. 1			
TOWER YU	/ FRANK LIU	IXI IO/IOOBT MAGJACK	P01-0007	X.	±0.25	SIZE: A4	l
BILL LIU	2023-11-16	TAB UP, UNSHIELDED	FILE NAME	.x	±0.25	UNIT: mm	
APPROVED	2023-11-16	W/LEDS		.XX	±0.25	SCALE: NA	
TONY YIIAN		1172200	P01-0007.DRW	.XXX	±0.25	PAGE: REV.:	l



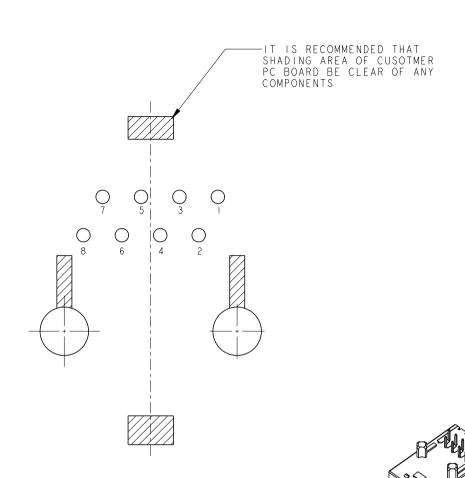
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CHASSIS GND P8



DRAWN 2023- - 6 TITLE DRAWING NO. UNLESS OTHERWISE NOTED, DIM. TOL.:	
TOWER YU / FRANK LIU	
CHECKED 2023-11-16 BILL LIU TAB UP, UNSHIELDED FILE NAME X ±0.25 UNIT: mm	MAGNETIC SOLUTIONS
APPROVED 2023-11-16 W/LEDS DOL 0007 DDW .XX ±0.25 SCALE: NA	
TONY YUAN .XXX ±0.25 PAGE: 3 / 5 REV.:	a bel group

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RoHS

- Z -

PCB RECOMMENDED KEEP OUT AREA (SEEN FROM COMPONENT SIDE)
TOLERANCE: ±0.08

P01-0007-02

PCB RECOMMENDED HOLE LAYOUT (SEEN FROM COMPONENT SIDE)

UNSPECIFIED DIMENISONS ARE SAME AS POI-0007-01

DRAWN	2023-11-16		DRAWING NO.		OTHERWISE DIM. TOL. :	$\qquad \qquad \bigoplus$	grate		
TOWER YU /	FRANK LIU 2023-11-16	IXI 10/100BT MAGJACK	P01-0007	X.	±0.25	SIZE: A4		b 0	
BILL LIU	2023-11-10	TAB UP, UNSHIELDED	FILE NAME	.X	±0.25	UNIT: mm	集〇唐	DEI	MAGNETIC SOLUTIONS
APPROVED	2023-11-16	W/LEDS	P01-0007.DRW	.XX	±0.25	SCALE: NA			
TONY YUAN		- _ •	FOI-0001.DKW	.XXX	±0.25	PAGE: 4 / 5 REV.:	4.4.1.2.	a bel group	
DC00X(2)230214		This c	document is electronically gener	ated. T	his is a	controlled copy if use	ed internally		

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	CHANGE HISTORY					
ISSUE	DATE	DESCRIPTION OF CHANGE	REASON	DRAWN	APPROVAL	ECN#
1	2023-11-16	INITIAL RELEASE	-	TOWER YU	TONY YUAN	-

DRAWN	2023-11-16	TITLE
TOWER YU /	FRANK LIU	
CHECKED	2023-11-16	
BILL LIU		
APPROVED	2023-11-16	
TONY YUAN		

DC00X(2)230214

IXI IO/IOOBT MAGJACK
TAB UP, UNSHIELDED
W/LEDS

DRAWING NO. UNLESS OTHERWISE NOTED, DIM. TOL. : ±0.25 SIZE: P01-0007 **A4** ± 0.25 UNIT: mm FILE NAME .XX ±0.25 SCALE: NΑ P01-0007.DRW REV.: PAGE: 5 / .XXX±0.25



