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RoHS



NOTES:

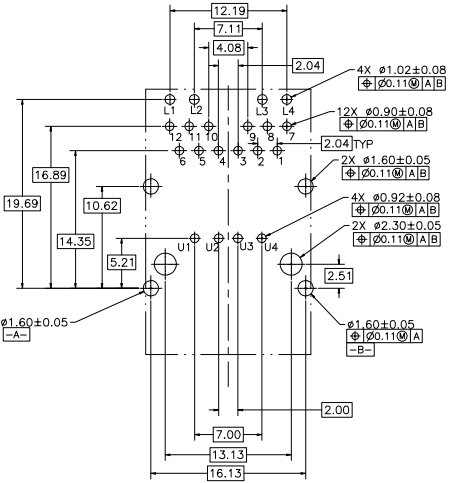
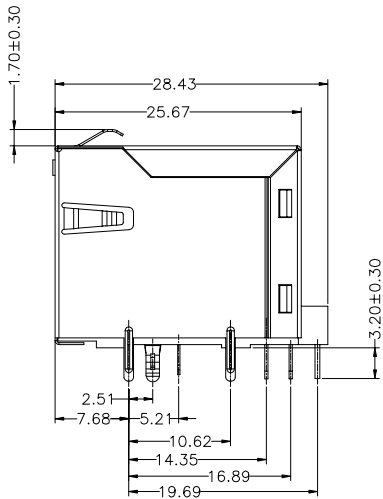
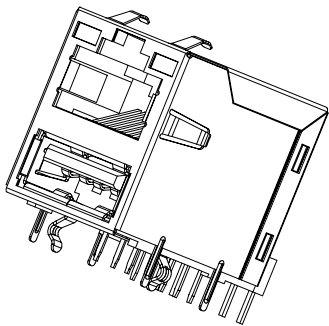
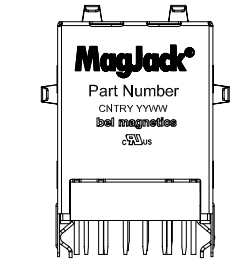
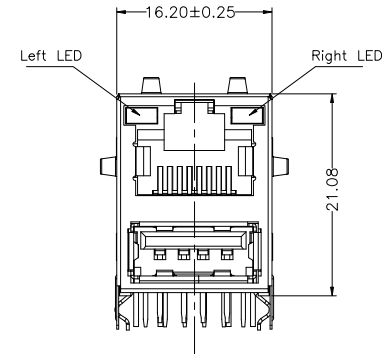
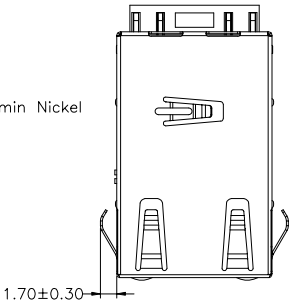
- MECHANICAL:
1. SHIELD MATERIAL: COPPER ALLOY (OR STEEL ALLOY) 0.20mm THICKNESS PLATING NI.
 2. Grounding leg of USB: Phosphor Bronze, Thickness=0.30mm finish: 100u"min Tin over 50~100u"min Nickel
 3. HOUSING MATERIAL : PBT+30%GF. THERMOPLASTIC UL94V-0;
 4. INSERT MATERIAL : PBT+30%GF. THERMOPLASTIC UL94V-0;
 5. CONTACT MATERIAL : PHOSPHORUS BRONZE t=0.35mm. (C5191H)
 5. PLATING :
 1. MATING AREA- Gold flash, GOLD OVER 30~80u" BRIGHT NICKEL.
 2. SOLDER AREA- 75~300u" TIN OVER 30~80u" NICKEL.
 3. LED PINS AREA- 75~300u" TIN OVER 30~80u" NICKEL.

RJ45 SPECIFICATIONS:

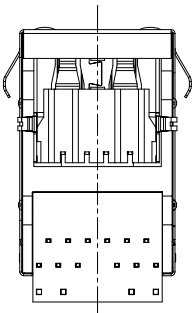
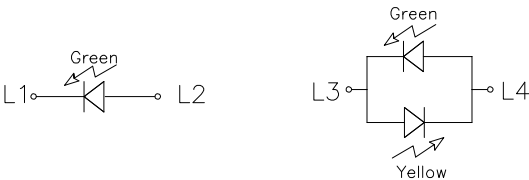
1. ELECTRICAL CHARACTERISTICS:
 - 1-1. DIELECTRIC STRENGTH: 1500VAC RMS 60Hz, 1MIN.
 - 1-2. LED'S CHARACTERISTICS:
 - 1-2-1. FORWARD CURRENT: 30mA MAX.
 - 1-2-2. FORWARD VOLTAGE: 2.2 VOLTS TYPICAL.
 - 1-2-3. PEAR EMISSION WAVELENGTH: GREEN LED 568nm TYP, AT IF=20mA.
 - 1-2-4. ANODE $\rightarrow$ CATHODE YELLOW LED 589 nm TYP, AT IF=20mA.
 - ORANGE LED 610 nm TYP, AT IF=20mA.
 - 1-3. Mates With Modular Plug Conforming To FCC PART 68, Subpart F.
2. MECHANICAL CHARACTERISTICS:
 - 2-1. MATING/UNMATING FORCE: 5 LBS MAXIMUM.
 - 2-2. DURABILITY (MATING/UNMATING CYCLES): 1000 CYCLES.
 - 2-3. OPERATING TEMPERATURE: -40°C TO +85°C.
 - STORAGE TEMPERATURE: -40°C TO +85°C.
 - 2-4. CONNECTOR TO PCB INSERTION FORCE < 8LBS.
 - 2-5. PLUG TO JACK RETENTION: 10LBS MIN.

USB SPECIFICATIONS:

1. ELECTRICAL CHARACTERISTICS:
 - 1-1. CONTACT CURRENT RATING: 1 AMPERE.
 - 1-2. CONTACT RESISTANCE : 30 mOHMS MAX.
 - 1-3. DIELECTRIC WITHSTANDING VOLTAGE: 750 VAC RMS 60HZ, 1 MIN.
 - 1-4. INSULATION RESISTANCE: 1000 MOHMS MIN @500 VDC.
2. MECHANICAL CHARACTERISTICS:
 - 2-1. CONTACT MATING FORCE: 34.3N (3.5kg) MAX.
 - 2-2. CONNECTOR UNMATING FORCE : 9.8N (1.0kg) MIN.
 - 2-3. DURABILITY: 1500 CYCLES.
 - 2-4. OPERATING TEMPERATURE: -40°C TO +85°C.



SUGGESTED CUSTOMER BOARD LAYOUT



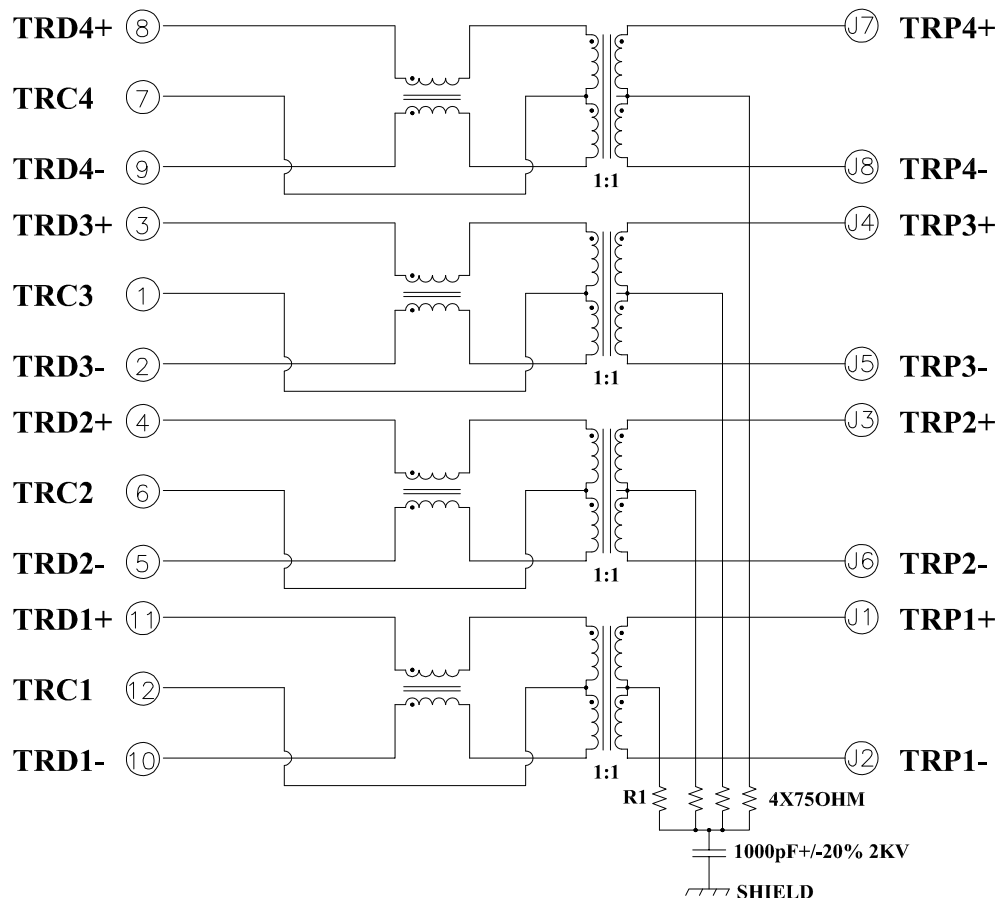
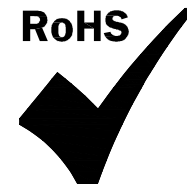
DRAWN	24Apr2024
JARRY YE / FRANK LIU	
CHECKED	24Apr2024
BILL LIU	
APPROVED	24Apr2024
TONY YUAN	

TITLE	Gigabit MagJack [®] (WITH LED) PATENTED
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DRAWING NO.	P01-7CJ0
FILE NAME	P01-7CJ0_1.DWG

UNLESS OTHERWISE NOTED, TOL:		SIZE: A4	
X.	±0.38	UNIT:	mm
.XX	±0.38	SCALE:	N/A
.XXX	±0.13	PAGE: 1/3	REV.: 1





Electrical Specification @ 25 C°

unless otherwise noted

Insertion Loss: 0.5 dB MAX @ 1-60 MHZ
1.0 dB MAX @ 60-100 MHZ
1.2 dB MAX @ 100-125 MHZ

Return Loss: 16.0 dB MIN @ 10-30 MHZ
12.0 dB MIN @ 30-60 MHZ
10.0 dB MIN @ 60-80 MHZ

Cross Talk: 35 dB MIN @ 1-40 MHZ
33-20LOG(f/50) dB MIN @ 40-100 MHZ

CMR: 30 dB MIN @ 1-100 MHZ

Hipot: 2250V DC 60S 1mA

OCL: 350uH MIN @ 100KHZ 100mV 8mA DC

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 Gigabit MagJack ®
 (WITH LED)
 PATENTED

DRAWING NO.
 P01-7CJ0

FILE NAME
 P01-7CJ0_1.DWG

UNLESS OTHERWISE NOTED, TOL:

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



SIZE:	A4
UNIT:	mm
SCALE:	N/A
PAGE:	2/3
REV.:	1



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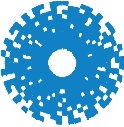
CHANGE HISTORY						
ISSUE	DATE	DESCRIPTIN OF CHANGE	REASON	DRAWN	APPROVAL	ECN#
1	24APR2024	—	INITIAL RELEASE	JARRY YE	TONY YUAN	—

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

TITLE
Gigabit MagJack [®]
(WITH LED)
PATENTED

DRAWING NO.
P01-7CJO
FILE NAME
P01-7CJO_1.DWG

UNLESS OTHERWISE NOTED, TOL:			
X.	±0.38	SIZE:	A4
.X	±0.38	UNIT:	mm
.XX	±0.25	SCALE:	N/A
.XXX	±0.13	PAGE: 3/3	REV.: 1



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