

1. MECHANICAL DIMENSIONS :

REV.	ECN. NO.	NAME	DATE
A	NEW	Zwl	2017/12/20



NOTES:

1. MATERIALS:

HOUSING: HIGH TEMP. THERMOPLASTIC, PBT
UL 94V-0, BLACK

CONTACTS-0.35mm THICK PHOS-BRONZE PLATED
WITH 6u" GOLD AND TIN IN
SOLDER AREA.

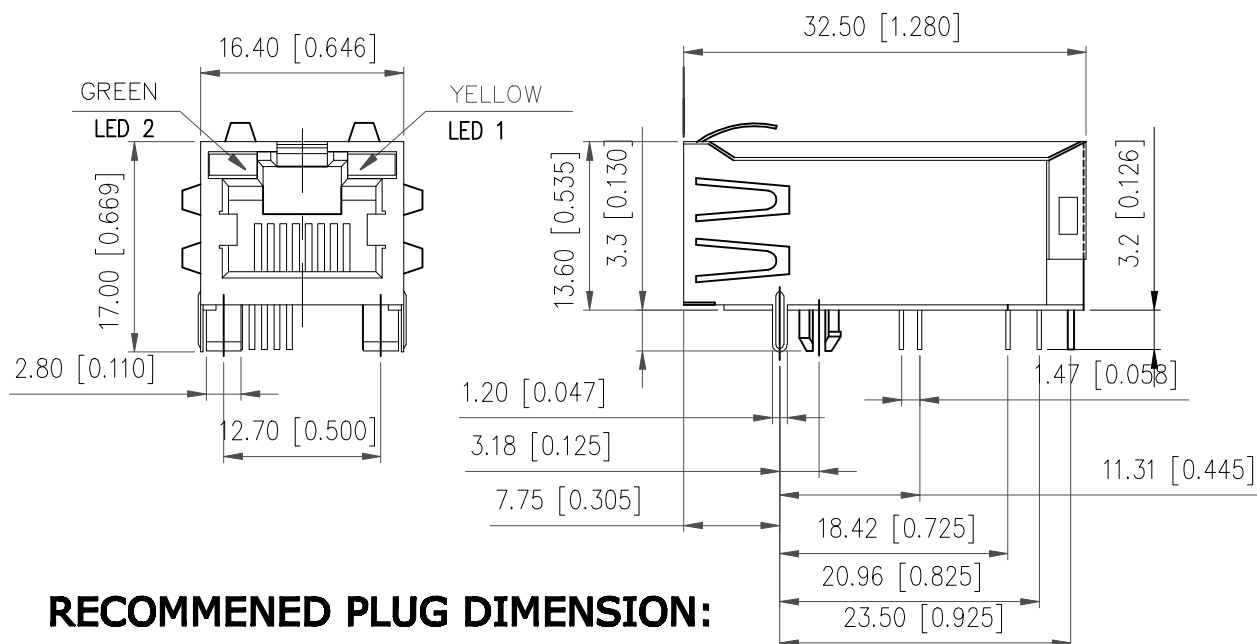
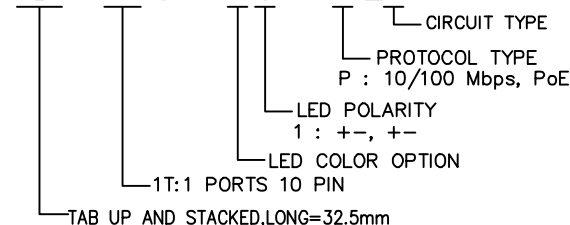
SHIELD -0.25mm THICK COPPER ALLOY,
PLATED WITH NICKEL.

2. CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68,SUBPART F.

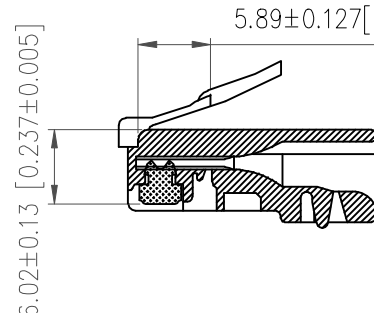
2. OPERATING TEMPERATURE : -40°C~85°C

PART NO:

IRCHD-1T10-410-PP2



RECOMMENED PLUG DIMENSION:



RoHS Compliant

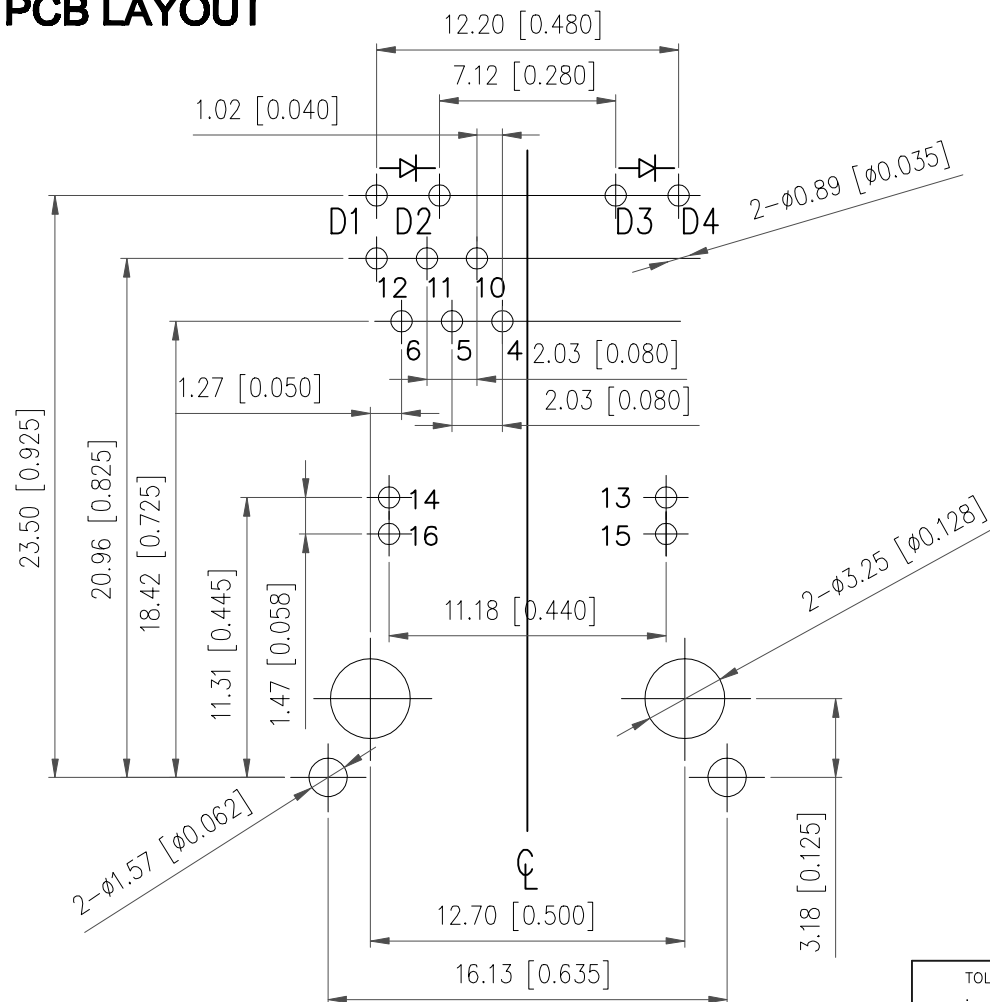
IRiS Electric Corporation

TITLE:RJ45, W/ LED, with 10/100 Mbps Filter
8P,10C, Shielded, Thru Hole,With PoE+

TOLERANCE UNSPECIFIED		IRiS Electric Corporation			
.0	± 0.38	TITLE:RJ45, W/ LED, with 10/100 Mbps Filter 8P,10C, Shielded, Thru Hole,With PoE+			
.00	± 0.25				
.000	± 0.10				
ANGLE	± 3.00°				
MANUFACTURING COPY					
DRAWN BY:		SIZE: A4	UNIT: mm	PART NO. IRCHD-1H10-410-RH12	
CHECKED BY:		SCALE:1:1		PROJECTION	REV.:A
APPROVED BY:		DWG . PATH	E/RD/RJ/IRCHD1T10410PP2		SHEET:1 OF 3

REV.	ECN. NO.	NAME	DATE
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2. PCB LAYOUT



SUGGESTED PCB LAYOUT
(TOP VIEW)

DIMENSIONAL TOLERANCE: .XX ±0.05[0.001]

3. LED CONFIGURATION



Color	Lens Color	Vf(v) @20mA		Iv(mcd) @10mA		Viewing angle
		Min	Max	Min	Typ	
Yellow	Yellow Diffused	1.7	2.8	3.0	6.0	116
Green	Green Diffused	1.7	2.8	3.5	6.0	116

TOLERANCE UNSPECIFIED
.0 ±0.38
.00 ±0.25
.000 ±0.10
ANGLE ±3.00°
MANUFACTURING COPY

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DRAWN BY:		SIZE: A4	UNIT: mm	PART NO. IRCHD-1H10-410-RH12		
CHECKED BY:		SCALE:1:1	PROJECTION		REV.:A	
APPROVED BY:		DWG . PATH	E/RD/RJ/IRCHD1T10410PP2	SHEET:2 OF 3		

REV.	ECN. NO.	NAME	DATE
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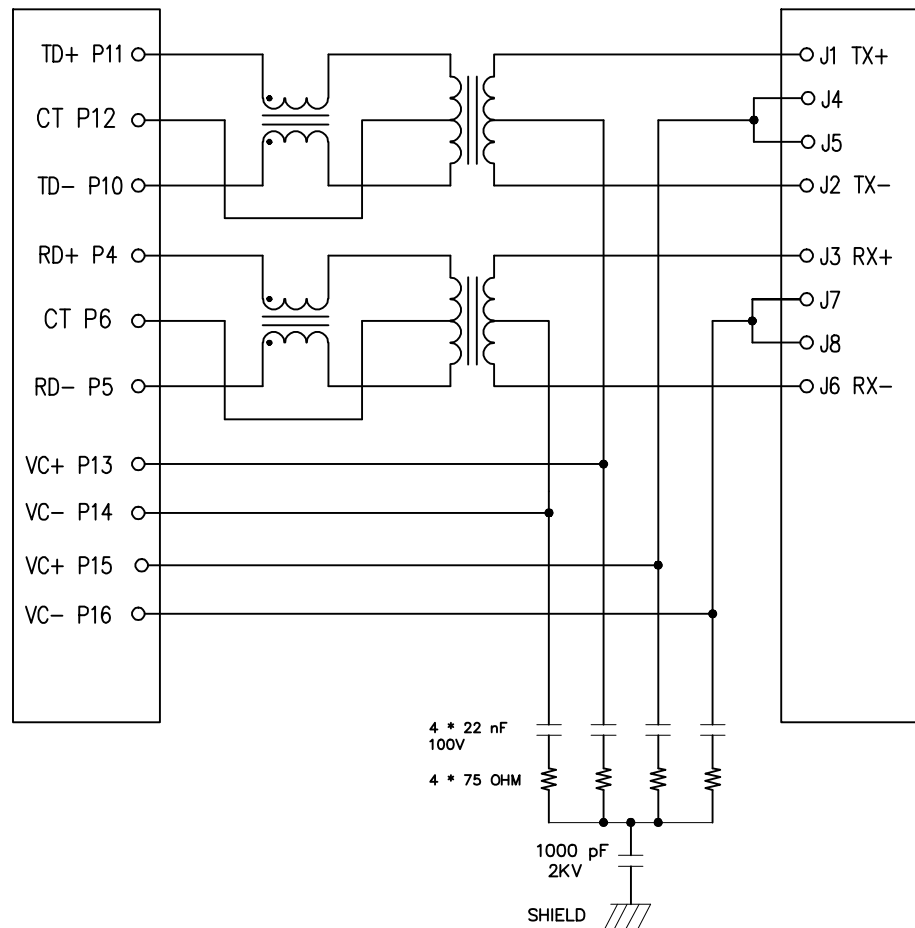
3. SCHEMATIC :

4. ELECTRICAL CHARACTERISTICS :



CONNECTOR SOLDER SIDE

RJ45 CONTACT SIDE



IEEE802.3af/802.3at Compliant (PoE+) :30W 720mA

TEST NOTES: (25±5°C)

1.TR: (100KHz,0.1V);

PINS: (P11-P10):(J1-J2)=1:1±3%

PINS: (P4-P5):(J3-J6)=1:1±3%

2.LX: (100KHz,100mV,8mA, DC Bias)

PINS: (P11,P10),(P4,P5)=350uH MINIMUM

3.DCR:

PINS: (J1,J2),(J3,J6)=1.2 OHMS MAXIMUM

4.HIPOT:

PINS(P11,P12,P10)TO(J1,J2)=1500VAC 0.5mA

PINS(P4,P6,P5)TO(J3,J6)=1500VAC 0.5mA

5.INSERTION LOSS:

-1.0dB MAXIMUM AT 0.3MHz TO 100MHz;

6.RETURN LOSS:

-20dB MINIMUM AT 1MHz TO 30MHz;

-15dB MINIMUM AT 30MHz TO 60MHz

-10dB MINIMUM AT 60MHz TO 80MHz

7.CROSS TALK:

-30dB MINIMUM AT 1MHz TO 100MHz

8.COMMON TO COMMON MODE REJECTION:

-30dB MINIMUM AT 1MHz TO 100MHz

TOLERANCE UNSPECIFIED	
.0	± 0.38
.00	± 0.25
.000	± 0.10
ANGLE	± 3.00°
MANUFACTURING COPY	

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