

Product Specification

Number: L-KLS12-TL186-1X1-G/Y-03

Name: Modular Jacks

Customer: _____

Date: 2025-07-01

Customer Signature:



WWW.KLSELE.COM

NINGBO KLS ELECTRONIC CO; LTD

Tel : 0086-574-86828566

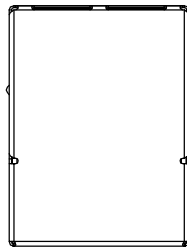
Fax : 0086-574-86824882

**ADD : NO. 8-1, RONGXIA RD. XIAPU SHANQIAN
INDUSTRIAL ZONE BEILUN NINGBO ZHEJIANG.**

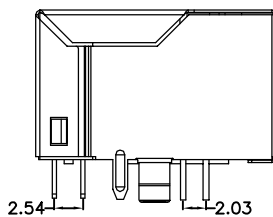
Compi	Check	Review	Approva
Jenny	Jack.C		

Part name	Modular Jacks	Date	2025-07-01
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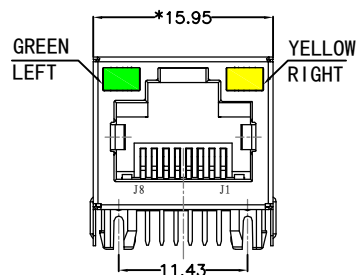
REACH & RoHS
COMPLIANT



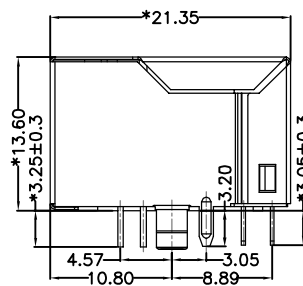
TOP VIEW



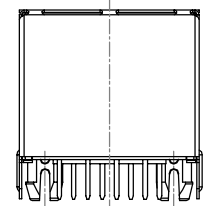
LEFT SIDE VIEW



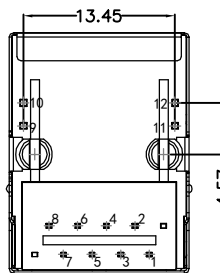
FRONT VIEW



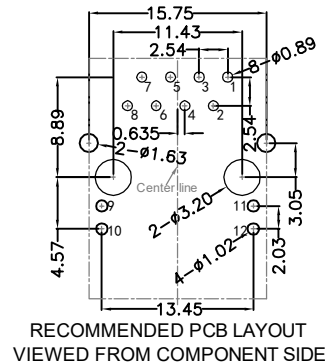
RIGHT SIDE VIEW



BACK VIEW



BOTTOM VIEW



RECOMMENDED PCB LAYOUT
VIEWED FROM COMPONENT SIDE

MATERIAL:

HOUSING : PBT,UL94V-0,BLACK.

TERMINALS BRACKET: PBT,UL94V-0,BLACK.

SHIELD: C2680,T=0.20MM,NICKEL PLATING ON ALL AREA.

TERMINAL: PHOSPHOR BRONZE C5210,T=0.35MM,
6U" GOLD PLATING ON CONTACT AREA.

MECHANICAL:

DURABILITY : 750 CYCLES MIN.

MATING FORCE : 23N MAX.

OPERATING TEMPERATURE: -40°C~+85°C.

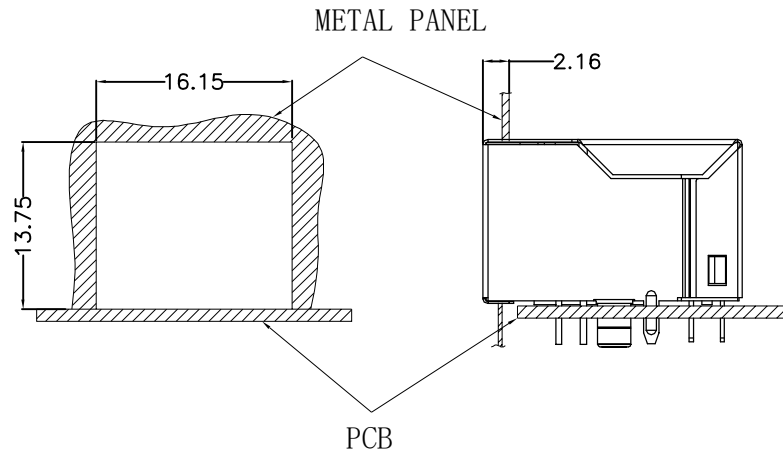
STORAGE TEMPERATURE: -40°C~+85°C.

ALL CRITICAL DIMENSIONS WITH "*"

GENERAL TOLERANCES UNLESS SPECIFIED	
x±0.35	x°±3.0°
.x±0.30	.x°±2.0°
.xx±0.25	.xx°±1.5°
.xxx±0.10	.xxx°±1.0°

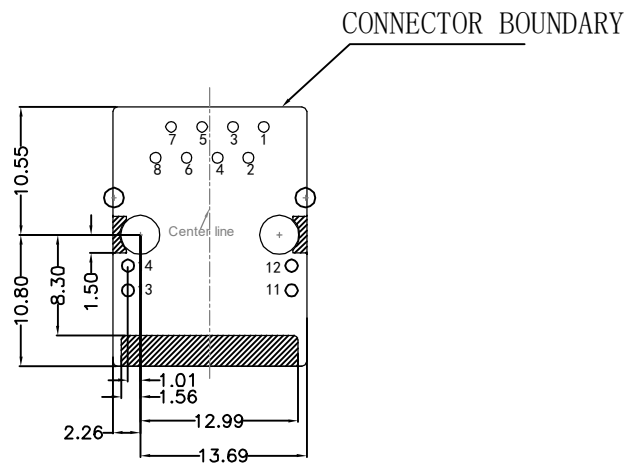
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RECOMMENDED PANEL CUTOUT (REFERENCE ONLY) :



UNIT: MM / INCH
TOLERANCES: ± 0.10 / 0.004
REFERENCE ONLY

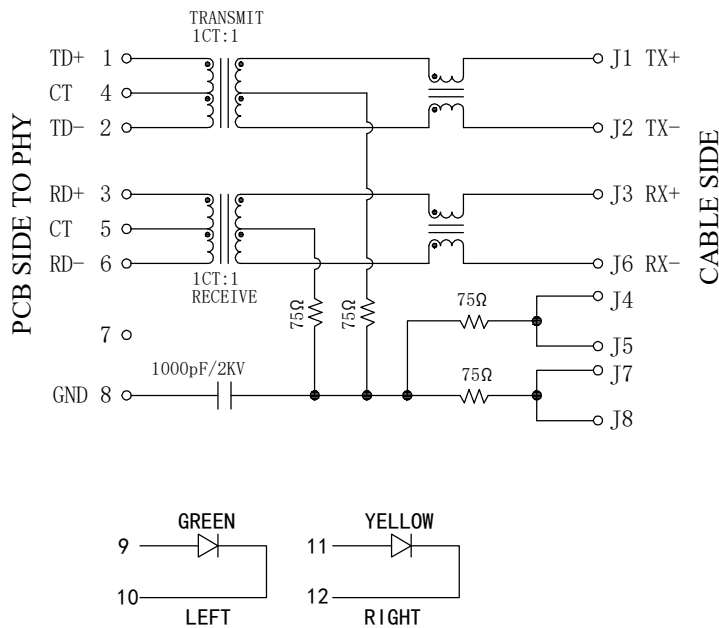
KEEP-OUT AREA (COMPONENT SIDE VIEW) :



PLUG-IN SIDE

UNIT: MM / INCH
TOLERANCES: ± 0.10 / 0.004

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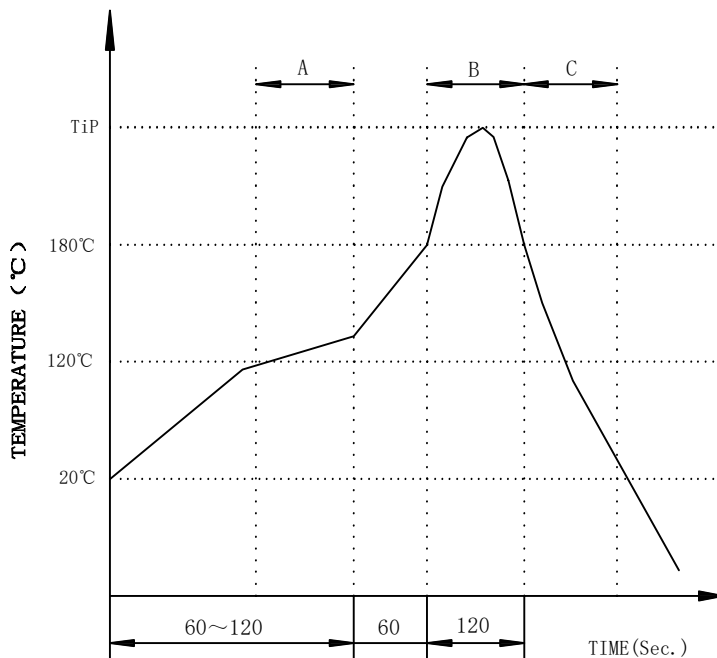
Electrical:

1. Turn ratio: 1~2: J1~J2=1CT:1CT(±2%).
3~6: J3~J6=1CT:1CT(±2%).
2. OCL: 350uH Min. at 100KHz 100mV 8mA DC.
3. Insertion Loss: -1.0 dB Max 1~100MHz.
4. Return loss: -20dB Min 1~10MHz;
-16dB Min 10~30MHz.
-12dB Min 30~60MHz.
-10dB Min 60~80MHz.
5. Cross talk: -40dB Min 1~30MHz;
-35dB Min 30~60MHz;
-30dB Min 60~100MHz;
6. CMR: -30dB Min 1~100MHz;
7. Hi-Pot: 1500V AC & 2250V DC
6S 1mA PRI TO SEC

LED Specification

Standard LED Color	LED Wavelength	Foward(A)	Foward(V)
Green	568nm	20mA	1.85-2.45V
Yellow	585nm	20mA	1.7-2.2V

PROFILE OF WAVE SOLDER



A. Preheating B. Soldering C. Gradual Cooling

Tip temperature: 260±5°C.

Tip temperature time: 5Sec Max.

Tip melting point of Sn96.5/Ag3/Cu0.5: 217°C.

Remarks: after wave soldering, the plastic positioning columns of the product which under the PCB will be slightly melted, but it won't affect its function.