

1	2	3	4	5	6	7	8	
H								
G								
F								
E								
D								
C								
B								
A								

SPECIFICATION FOR APPROVAL



MARKETING GROUP	R&D GROUP	QA GROUP
ISSUED BY	CHECKED BY	QA INSPECTION
Chen	Weide Li	Ting Liu

CUSTOMER

CUSTOMER APPROVAL:

☐ APPROVAL ☐ CONCESSIONARY ☐ REJECTED

ISSUED BY : _____

CHECKED BY: _____

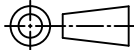
APPROVED BY: _____

COMMENTS : _____

CUSTOMER: _____

CUSTOMER PART NO: _____

SAMPLE Q'TY: _____

TITLE						 多亞電子有限公司 Duoya Electronics Co.,Ltd			
PART NO.				GENERAL TOLERANCE				UNIT: MM(INCH)	SIZE: A4
DRAW	Chen	DATE	2026-07-18	.X±0.35	.X±1°	SCALE: 1:1		SHEET: 1/8	REV: A
CHECK	Chen	DATE	2026-07-18	.XX±0.25	.XX±0.5°				
APPROVE	De	DATE	2026-07-18	.XXX					

2X2 PORT 1000M BASE-T RJ45
POE

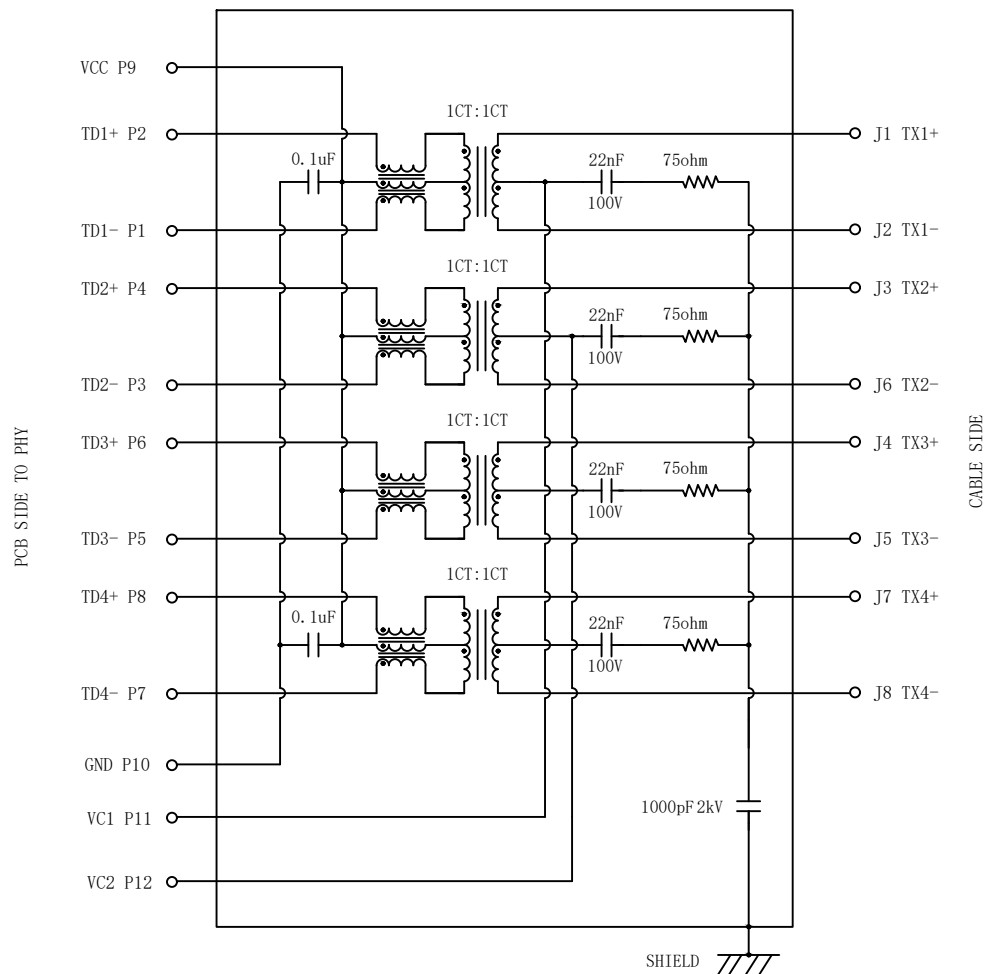
DY60-PB1105Y-A2K

THIS DRAWING IS A CONTROLLED DOCUMENT FOR DUOYA ELECTRONICS CORPORATION

EMAIL: MAILBOX@DELEC.COM.CN WEB SITE: <http://www.delec.com.cn>

BY DUOYA ELECTRONICS CORPORATION
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PRODUCT DRAWING

SCHEMATIC:



ELECTRICAL CHARACTERISTICS @ 25°C

TURN RATIO:

(P2-P1):(J1-J2)=1:1 ±3%.

(P4-P3):(J3-J6)=1:1 ±3%.

(P6-P5):(J4-J5)=1:1 ±3%.

(P8-P7):(J7-J8)=1:1 ±3%.

PRIMARY INDUCTANCE:

350uH MIN. @100KHz,100mVRMS,8mADC BIAS

HI-POT TEST:

PHY SIDE TO CABLE SIDE 2250V DC.

Insertion Loss:

1MHz~65MHz -0.8dB MAX.

65MHz~100MHz -1.2dB MAX.

Return Loss: (Load:100 ohms)

1MHz~40 MHz -18dB MIN

40MHz~100 MHz -12+20Log(F/80)dB MIN.

Cross Talk:

1MHz~40 MHz -30dB MIN.

40MHz~100 MHz -33+20log(F/50)dB MIN.

CM to CM Rejection:

1MHz~100 MHz -30dB MIN.

CM to DM Rejection:

1MHz~100 MHz -30dB MIN.

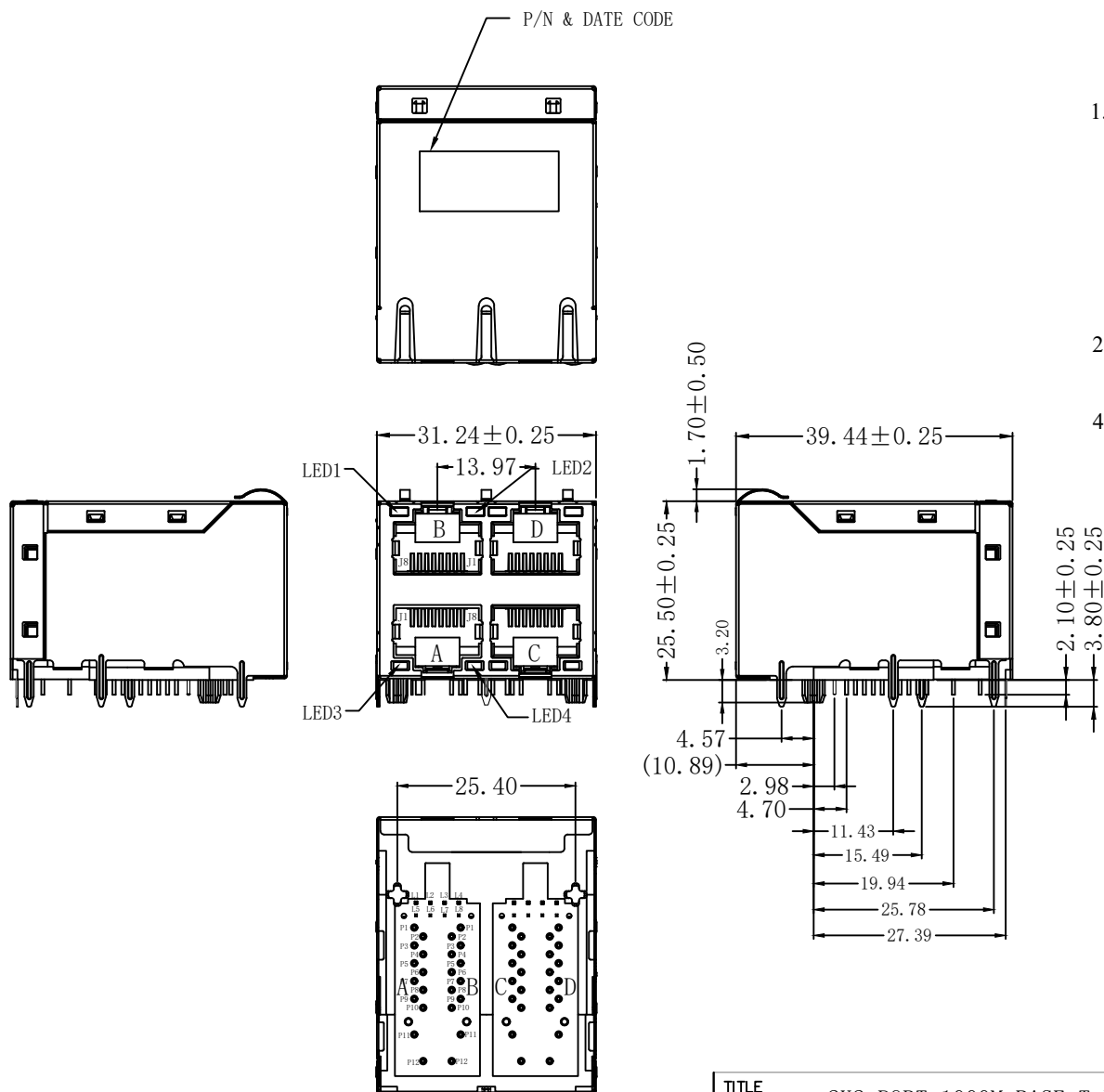
BALANCED DC LINE CURRENT:

350 mA MAX. @ 57 VDC CONTINUOUS

500 mA MAX. @ 57 VDC FOR 200 MILLISECONDS

TITLE 2X2 PORT 1000M BASE-T RJ45 POE				RoHS Compliant		DELEC 多亞電子有限公司 Duoya Electronics Co.,Ltd		
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DRAW	Chen	DATE	2026-07-18	.X±0.35	.X±1°	SCALE: 1:1	SHEET: 3/8	REV: A
CHECK	Chen	DATE	2026-07-18	.XX±0.25	.XX±0.5°			
APPROVE	De	DATE	2026-07-18	.XXX				

MECHANICAL DIMENSION



1. MATERIALS AND FINISH

HOUSING: GLASS FILLED POLYESTER UL94V-0 LCP (BLACK COLOR)

CASE: BAKELITE UL94V-0 LCP (BLACK COLOR)

LIGHT PIPE: EPOXY/OPAQUE

CONTACT: PHOSPHOR BRONZE T=0.35MM FLAT PIN

PLATING: 30 U" GOLD PLATING OVER NICKEL

SHIELD: STAINLESS, THICKNESS=0.20MM, PRE-SOLDERING

TAILS: 100U" TIN MIN OVER NICKEL PLATING.

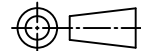
2. MECHANICAL CHARACTERISTICS

DURABILITY: 750(MODULAR JACK) INSERTION/PLUG DIMENSION CYCLES

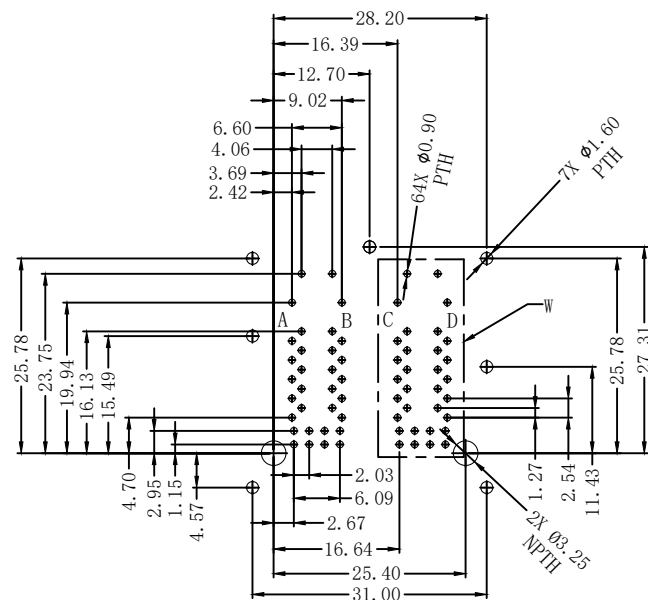
4. ENVIRONMENTAL

OPERATING TEMPERATURE: 0°C ~ +70°C

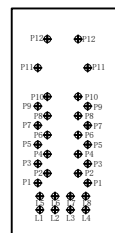
STORAGE TEMPERATURE: -40°C ~ +85°C

TITLE 2X2 PORT 1000M BASE-T RJ45 POE						 多亞電子有限公司 Duoya Electronics Co., Ltd		
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DRAW	Chen	DATE	2026-07-18	.X±0.35	.X±1°	SCALE: 1:1	SHEET: 4/8	REV: A
CHECK	Chen	DATE	2026-07-18	.XX±0.25	.XX±0.5°			
APPROVE	De	DATE	2026-07-18	.XXX				

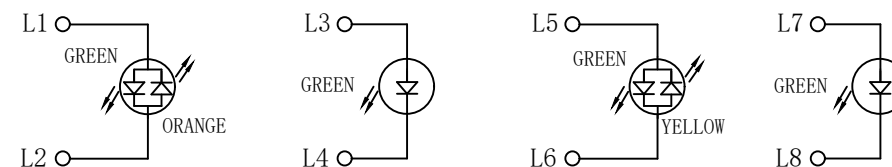
RECOMMENDED PCB LAYOUT AND LED:



RECOMMENDED PCB LAYOUT
(COMPONENT SIDE VIEW)
TOLERANCE: ± 0.05



DETAIL W
PIN NUMBER ASSIGN
(COMPONENT SIDE VIEW)

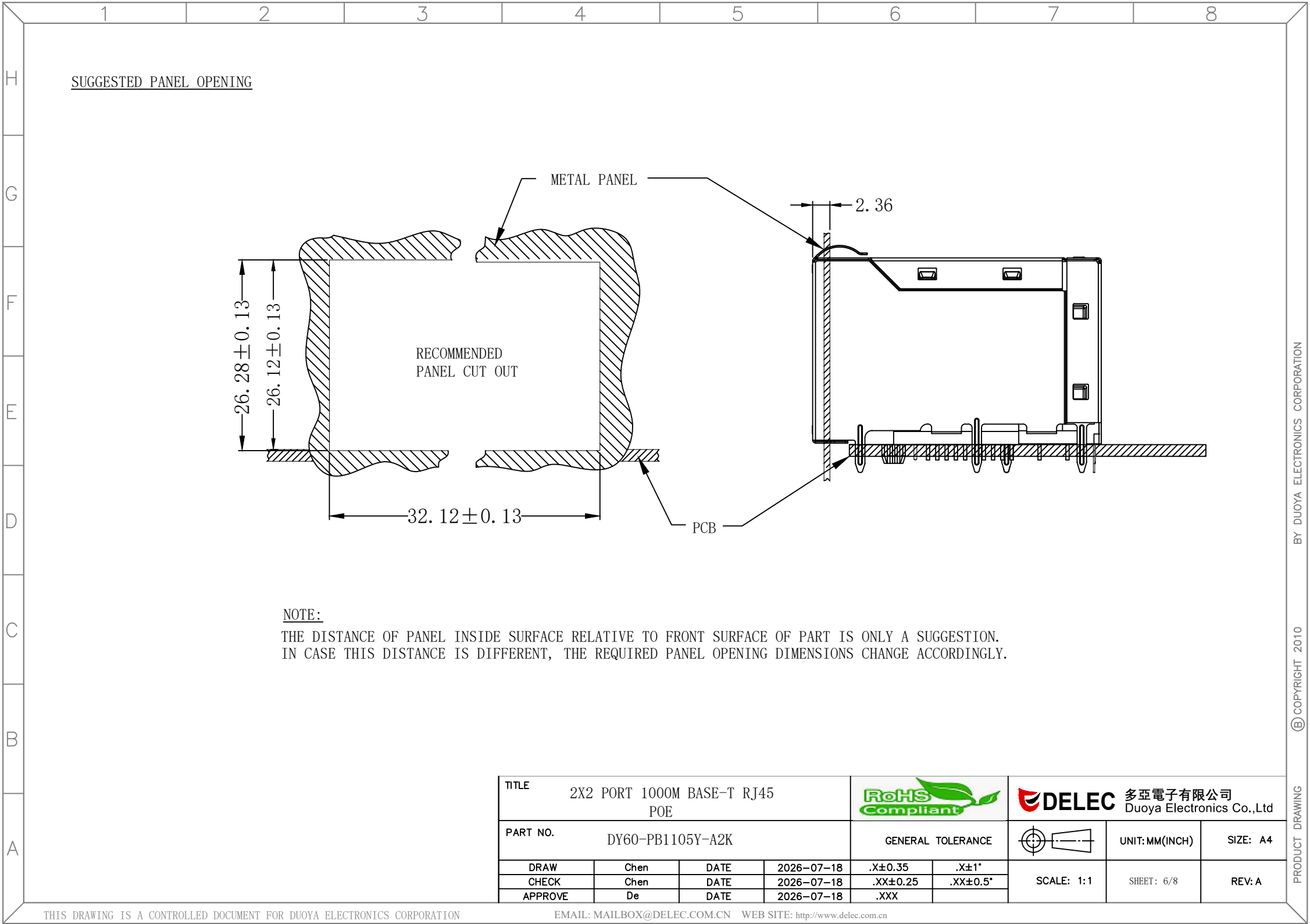


LED 1&3 POLARITY			LED 2&4 POLARITY		
L1&L5	L2&L6	COLOR	L3&L7	L4&L8	COLOR
+	-	GREEN	+	-	GREEN
-	+	ORANGE			

LED ELECTRICAL / OPTICAL CHARACTERISTICS:

COLOR	IF	VF (FORWARD VOLTAGE)	λ D DOMINANT WAVELENGTH
GREEN	20mA	2.2 V	565nm
ORANGE	20mA	2.1 V	610nm

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APPROVE	De	DATE	2026-07-18	.XXX				



IR REFLOW TEMPERATURE PROFILE

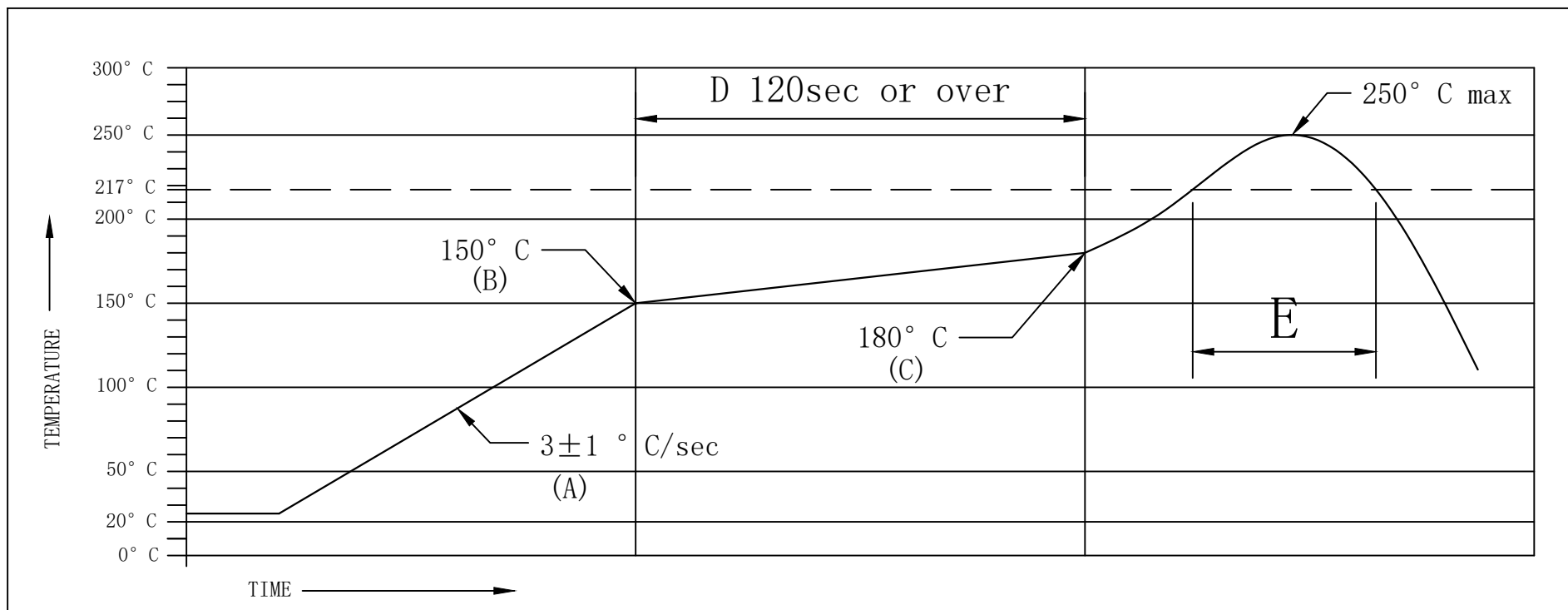
(1).Temperature condition of IR reflow soldering.

Conterts	Soldering Condition
A:Increasing	$3\pm 1^{\circ}\text{C/sec}$
B:Pre-heat starting Temp	150°C
C:Pre-heat ending Temp	180°C
D:Pre-heat interval	120 sec or over
E:Over 217°C time	60-150 sec
F:Peak Temperature	250°C Max 10S

(2).The type of lead -free solder
shuold be as below:

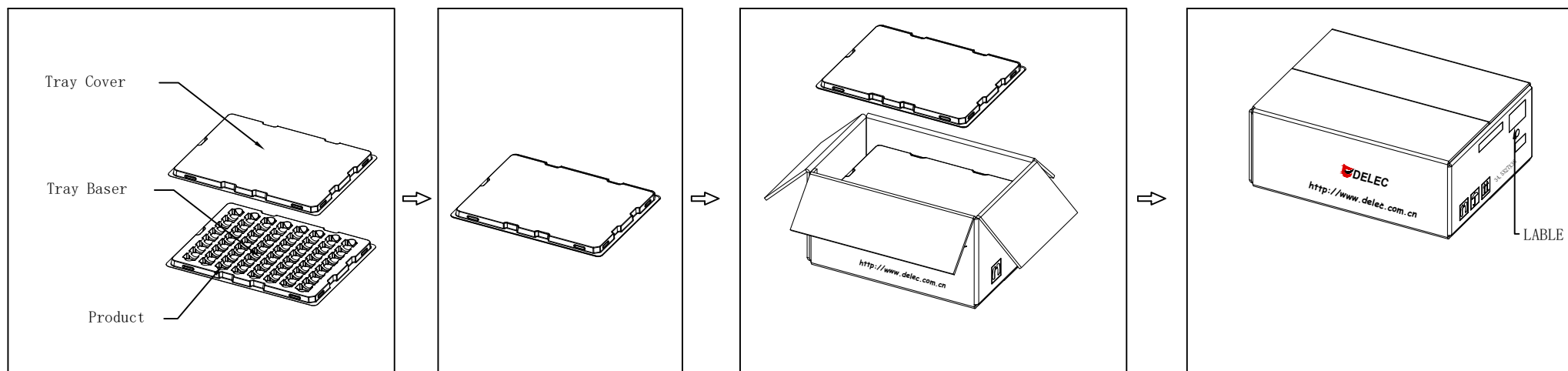
(a).96.5Sn - 3.0Ag - 0.5Cu

(b).99.3Sn - 0.7Cu



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DRAW	Chen	DATE	2026-07-18	.X±0.35	.X±1°	SCALE: 1:1	SHEET: 7/8	REV: A
CHECK	Chen	DATE	2026-07-18	.XX±0.25	.XX±0.5°			
APPROVE	De	DATE	2026-07-18	.XXX				

PACKAGE INFORMATION AND LABEL



PACKING QUANTITY : 24 PCS FINISHED GOODS PER TRAY
20 TRAYS (480 PCS FINISHED GOODS) PER CARTON BOX

TITLE 2X2 PORT 1000M BASE-T RJ45 POE				RoHS Compliant		DELEC 多亞電子有限公司 Duoya Electronics Co.,Ltd		
PART NO. DY60-PB1105Y-A2K				GENERAL TOLERANCE			UNIT: MM(INCH)	SIZE: A4
DRAW	Chen	DATE	2026-07-18	.X±0.35	.X±1°		SCALE: 1:1	SHEET: 8/8
CHECK	Chen	DATE	2026-07-18	.XX±0.25	.XX±0.5°			
APPROVE	De	DATE	2026-07-18	.XXX				REV: A