

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 PART NO:

SAMPLE Q'TY:

CUSTOMER

CUSTOMER APPROVAL:

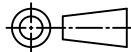
☐ APPROVAL ☐ CONCESSIONARY ☐ REJECTED

ISSUED BY : _____

CHECKED BY: _____

APPROVED BY: _____

COMMENTS : _____

TITLE						 多亞電子有限公司 Duoya Electronics Co.,Ltd		
PART NO.				GENERAL TOLERANCE			UNIT:MM(INCH)	SIZE: A4
DRAW	Sur	DATE	2026-07-09	.X±0.35	.X±1°	SCALE: 1:1	SHEET: 1/6	REV:A
CHECK	Sur	DATE	2026-07-09	.XX±0.25	.XX±0.5°			
APPROVE	De	DATE	2026-07-09	.XXX				

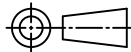
THIS DRAWING IS A CONTROLLED DOCUMENT FOR DUOYA CONNECTOR CORPORATION

EMAIL: MAILBOX@DUOYUAN-ASIA.COM WEB SITE: HTTP://WWW.DELEC.COM.CN

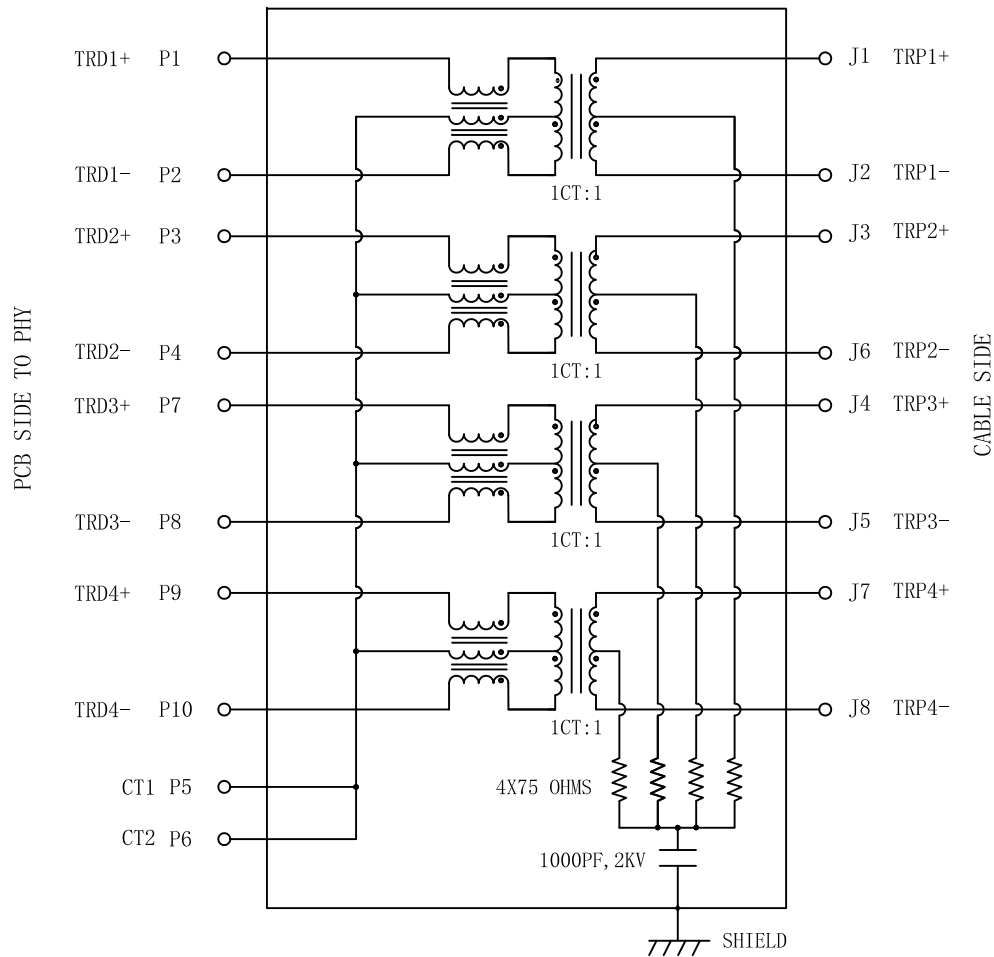
BY DUOYA ELECTRONICS CORPORATION

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PRODUCT DRAWING

	1	2	3	4	5	6	7	8										
H																		
	ISSUE RECORD																	
	REV	DESCRIPTION OF CHANGE			REVIEWED BY	APPROVED BY	ISSUE DATE											
G	A	FIRST ISSUE			Chen	De	2026-07-09											
F																		
E																		
D																		
C																		
B																		
A																		
TITLE					10G BASE-T RJ45 1X1 TAB UP WITH LED AND SHIELD				 多亞電子有限公司 Duoya Electronics Co.,Ltd									
PART NO.					DY59-B11APMF-4YA		GENERAL TOLERANCE				UNIT:MM(INCH)	SIZE: A4						
DRAW		Sur	DATE	2026-07-09	.X±0.35	.X±1°		SCALE: 1:1		SHEET: 2/6		REV:A						
CHECK		Sur	DATE	2026-07-09	.XX±0.25	.XX±0.5°												
APPROVE		De	DATE	2026-07-09	.XXX													
THIS DRAWING IS A CONTROLLED DOCUMENT FOR DUOYA CONNECTOR CORPORATION													EMAIL: MAILBOX@DUOYUAN-ASIA.COM		WEB SITE: HTTP://WWW.DELEC.COM.CN			
													BY DUOYA ELECTRONICS CORPORATION		© COPYRIGHT 2010		PRODUCT DRAWING	

SCHEMATIC:



ELECTRICAL CHARACTERISTICS @ 25°C

TURN RATIO:

(P1-P2):(J1-J2)=1:1 ±2%.
 (P3-P4):(J3-J6)=1:1 ±2%.
 (P7-P8):(J4-J5)=1:1 ±2%.
 (P9-P10):(J7-J8)=1:1 ±2%.

PRIMARY INDUCTANCE:

120uH MIN.@100KHz,100mVRMS

HI-POT TEST:

PCB SIDE TO CABLE SIDE 2250VDC.

Insertion Loss:

1MHz~500MHz -3.0dB MAX.

Return Loss: (Load:100 ohms)

1MHz~40 MHz -16 dB MIN
 40MHz~400 MHz -16 + 10*log10(f/40) dB MIN.
 400MHz~500 MHz -6 + 30*log10(f/400) dB MIN.

Cross Talk:

1 MHz~100 MHz -28dB MIN.
 100 MHz~500 MHz -20dB MIN.

CM to CM Rejection:

1 MHz~500 MHz -20dB MIN.

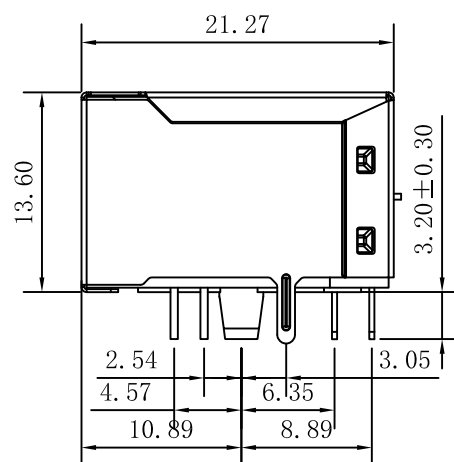
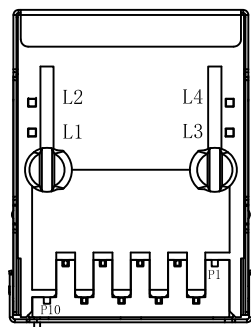
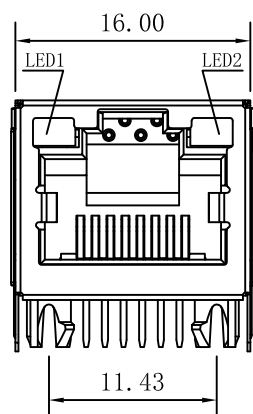
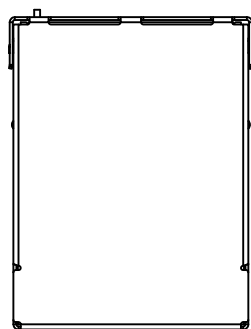
CM to DM Rejection:

1 MHz~250 MHz -30dB MIN
 250 MHz~500 MHz -22dB MIN

NOTE: f IS FREQUENCY IN MHZ.

TITLE 10G BASE-T RJ45 1X1 TAB UP WITH LED AND SHIELD				RoHS Compliant		DELEC 多亞電子有限公司 Duoya Electronics Co.,Ltd		
PART NO. DY59-B11APMF-4YA				GENERAL TOLERANCE			UNIT:MM(INCH)	SIZE: A4
DRAW	Sur	DATE	2026-07-09	.X±0.35	.X±1°	SCALE: 1:1	SHEET: 3/6	REV:A
CHECK	Sur	DATE	2026-07-09	.XX±0.25	.XX±0.5°			
APPROVE	De	DATE	2026-07-09	.XXX				

MECHANICAL DIMENSION



1.MATERIALS AND FINISH

HOUSING:THERMOPLASTIC PBT FLAMMABILITY RATING UL94V-0.

(COLOR:PANTONE 428C GRAY)

CASE/SPACER:THERMOPLASTIC PA9T FLAMMABILITY RATING UL94V-0.

(COLOR:BLACK)

CONTACT:PHOSPHOR BRONZE T=0.35MM FLAT PIN

PLATING:Fu"GOLD PLATING OVER NICKEL

TAILS: NICKEL PLATING COVERED BY 100U" TIN PLATING.

2.MECHANICAL CHARACTERISTICS

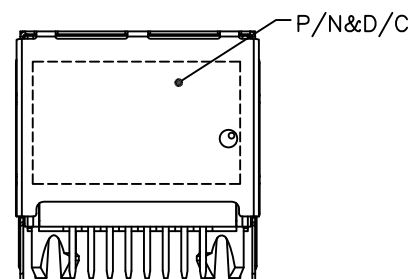
DURABILITY: 750(MODULAR JACK) INSERTION/PLUG DIMENSION CYCLES

3.ENVIRONMENTAL

OPERATING TEMPERATURE: 0℃~+70℃

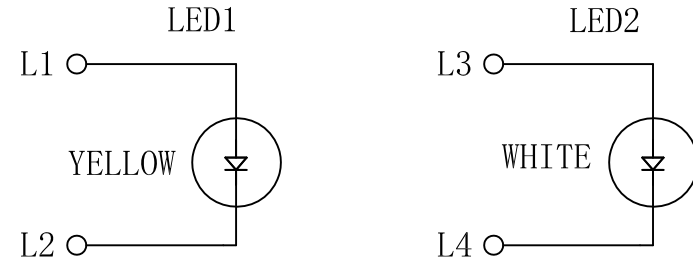
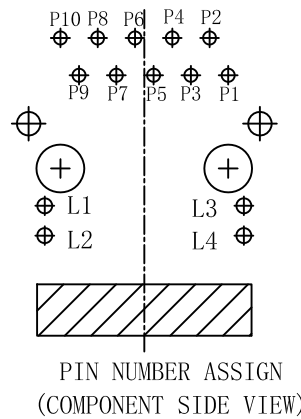
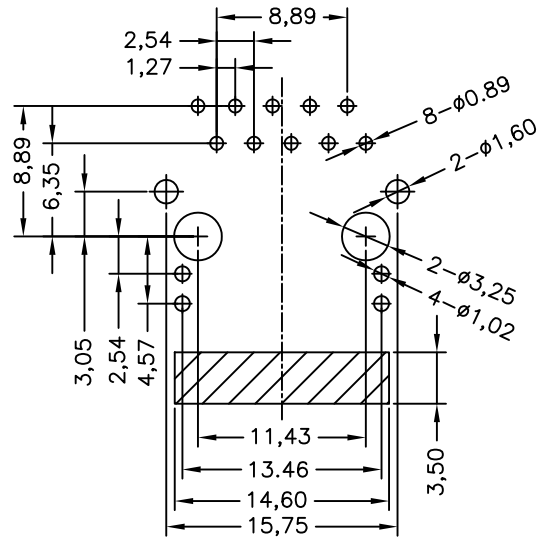
STORAGE TEMPERATURE: -40℃~+85℃

4. PRODUCT APPLY FOR WAVE SOLDERING PROCESS.



TITLE 10G BASE-T RJ45 1X1 TAB UP WITH LED AND SHIELD						多亞電子有限公司 Duoya Electronics Co.,Ltd		
PART NO. DY59-B11APMF-4YA				GENERAL TOLERANCE			UNIT:MM(INCH)	SIZE: A4
DRAW	Sur	DATE	2026-07-09	.X±0.35	.X±1°	SCALE: 1:1	SHEET: 4/6	REV:A
CHECK	Sur	DATE	2026-07-09	.XX±0.25	.XX±0.5°			
APPROVE	De	DATE	2026-07-09	.XXX				

RECOMMENDED PCB LAYOUT AND LED: UNIT: (mm)



LED ELECTRICAL/OPTICAL CHARACTERISTICS

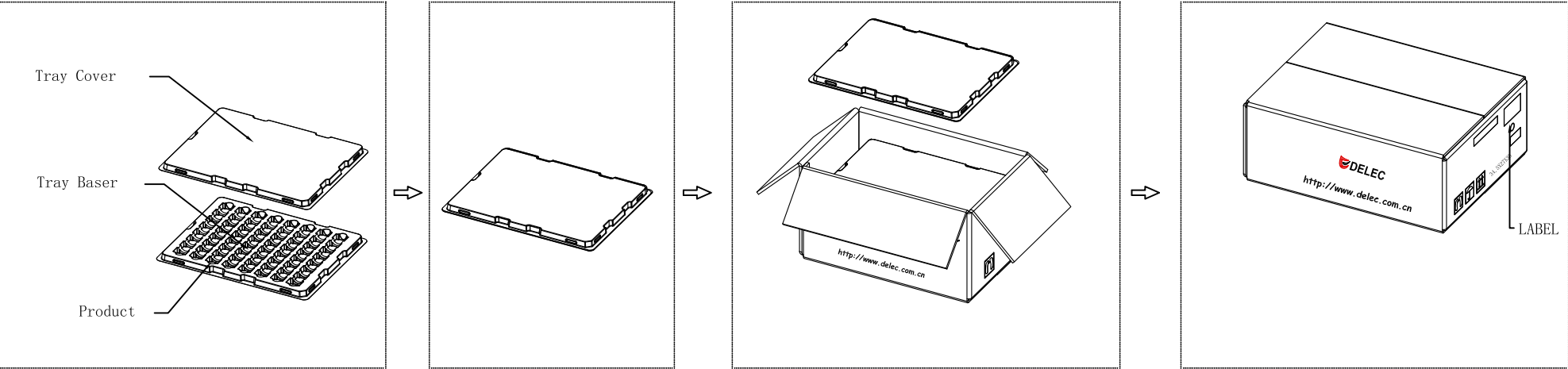
LED 1 POLARITY			LED 2 POLARITY		
L1	L2	COLOR	L3	L4	COLOR
+	-	YELLOW	+	-	WHITE

COLOR	IF	VF (FORWARD VOLTAGE)	λ D DOMINANT WAVELENGTH
YELLOW	20mA	2.2 V	590nm

COLOR	IF	VF (FORWARD VOLTAGE)	COLORS TEMPERATURE (K)
WHITE	20mA	2.6V-3.6V	8000-30000

TITLE 10G BASE-T RJ45 1X1 TAB UP WITH LED AND SHIELD				RoHS Compliant		DELEC 多亞電子有限公司 Duoya Electronics Co.,Ltd		
PART NO. DY59-B11APMF-4YA				GENERAL TOLERANCE			UNIT:MM(INCH)	SIZE: A4
DRAW	Sur	DATE	2026-07-09	.X±0.35	.X±1°		SCALE: 1:1	SHEET: 5/6
CHECK	Sur	DATE	2026-07-09	.XX±0.25	.XX±0.5°			
APPROVE	De	DATE	2026-07-09	.XXX				REV:A

PACKAGE INFORMATION AND LABEL



QUANTITY : 80 PCS FINISHED GOODS PER TRAY
14 TRAYS (1120 PCS FINISHED GOODS) PER CARTON BOX

TITLE 10G BASE-T RJ45 1X1 TAB UP WITH LED AND SHIELD						多亞電子有限公司 Duoya Electronics Co.,Ltd		
PART NO. DY59-B11APMF-4YA				GENERAL TOLERANCE			UNIT:MM(INCH)	SIZE: A4
DRAW	Sur	DATE	2026-07-09	.X±0.35	.X±1°	SCALE: 1:1	SHEET: 6/6	REV:A
CHECK	Sur	DATE	2026-07-09	.XX±0.25	.XX±0.5°			
APPROVE	De	DATE	2026-07-09	.XXX				