

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: _____

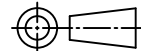
APPROVED BY: _____

COMMENTS : _____

CUSTOMER: _____

CUSTOMER PART NO: _____

SAMPLE Q'TY: _____

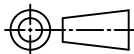
TITLE 10/100 BASE-T 1X1 PORT TAB DOWN RJ45 CONNECTOR WITHOUT SHIELD AND LED						 多亞電子有限公司 Duoya Electronics Co.,Ltd		
PART NO. DY59-AD31012-00G				GENERAL TOLERANCE			UNIT: MM(INCH)	SIZE: A4
DRAW	Chen	DATE	2026-07-30	.X±0.35	.X±1°	SCALE: 1:1	SHEET: 1/5	REV: B
CHECK	Weide Li	DATE	2026-07-30	.XX±0.25	.XX±0.5°			
APPROVE	De	DATE	2026-07-30	.XXX				

THIS DRAWING IS A CONTROLLED DOCUMENT FOR DUOYA CONNECTOR CORPORATION

EMAIL: INFO@DELEC.COM.CN WEB SITE: HTTP://WWW.DELEC.COM.CN

BY DUOYA CONNECTOR CORPORATION
© COPYRIGHT 2010
PRODUCT DRAWING

	1	2	3	4	5	6	7	8																																																																																															
H	ISSUE RECORD <table><thead><tr><th>REV</th><th>DESCRIPTION OF CHANGE</th><th>REVIEWED BY</th><th>APPROVED BY</th><th>ISSUE DATE</th></tr></thead><tbody><tr><td>A</td><td>FIRST ISSUE</td><td>Chen</td><td>De</td><td>2026-7-22</td></tr><tr><td>B</td><td>UPDATED THE 1000PF/2KV CAP TO 4700PF/1KV CAP</td><td>Chen</td><td>De</td><td>2026-7-30</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>								REV	DESCRIPTION OF CHANGE	REVIEWED BY	APPROVED BY	ISSUE DATE	A	FIRST ISSUE	Chen	De	2026-7-22	B	UPDATED THE 1000PF/2KV CAP TO 4700PF/1KV CAP	Chen	De	2026-7-30																																																																																
REV									DESCRIPTION OF CHANGE	REVIEWED BY	APPROVED BY	ISSUE DATE																																																																																											
A									FIRST ISSUE	Chen	De	2026-7-22																																																																																											
B									UPDATED THE 1000PF/2KV CAP TO 4700PF/1KV CAP	Chen	De	2026-7-30																																																																																											
G																																																																																																							
F																																																																																																							
E																																																																																																							
D																																																																																																							
C																																																																																																							
B																																																																																																							
A																																																																																																							

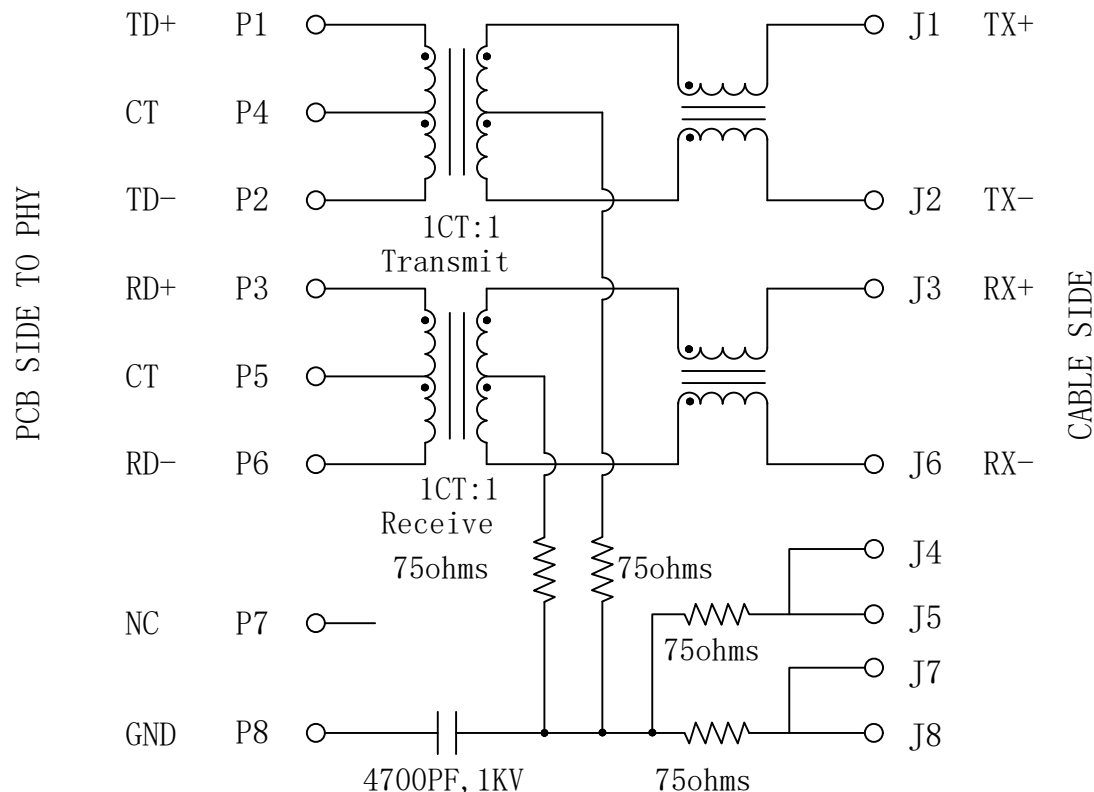
TITLE 10/100 BASE-T 1X1 PORT TAB DOWN RJ45 CONNECTOR WITHOUT SHIELD AND LED						 多亞電子有限公司 Duoya Electronics Co.,Ltd		
PART NO. DY59-AD31012-00G				GENERAL TOLERANCE			UNIT: MM(INCH)	SIZE: A4
DRAW	Chen	DATE	2026-07-30	.X±0.35	.X±1°	SCALE: 1:1	SHEET: 2/5	REV: B
CHECK	Weide Li	DATE	2026-07-30	.XX±0.25	.XX±0.5°			
APPROVE	De	DATE	2026-07-30	.XXX				

THIS DRAWING IS A CONTROLLED DOCUMENT FOR DUOYA CONNECTOR CORPORATION

EMAIL: INFO@DELEC.COM.CN WEB SITE: HTTP://WWW.DELEC.COM.CN

BY DUOYA CONNECTOR CORPORATION
© COPYRIGHT 2010
PRODUCT DRAWING

SCHEMATIC:



ELECTRICAL CHARACTERISTICS @ 25°C

TURN RATIO:

(P1-P2):(J1-J2)=1:1 ±3%.

(P3-P6):(J3-J6)=1:1 ±3%.

PRIMARY INDUCTANCE:

350uH MIN.@100KHz,100mVRMS,8mA DC BIAS.

HI-POT TEST:

PCB SIDE TO CABLE SIDE 2121V DC.

Insertion Loss:

1MHz~100MHz -1.1dB MAX.

Return Loss: (Load:100 ohms)

1MHz~30 MHz -18dB MIN.

30MHz~60 MHz -18+20Log(F/30)dB MIN

60MHz~80 MHz -12dB MIN.

CM to CM Rejection:

1MHz~100 MHz -30dB MIN.

CM to DM Rejection:

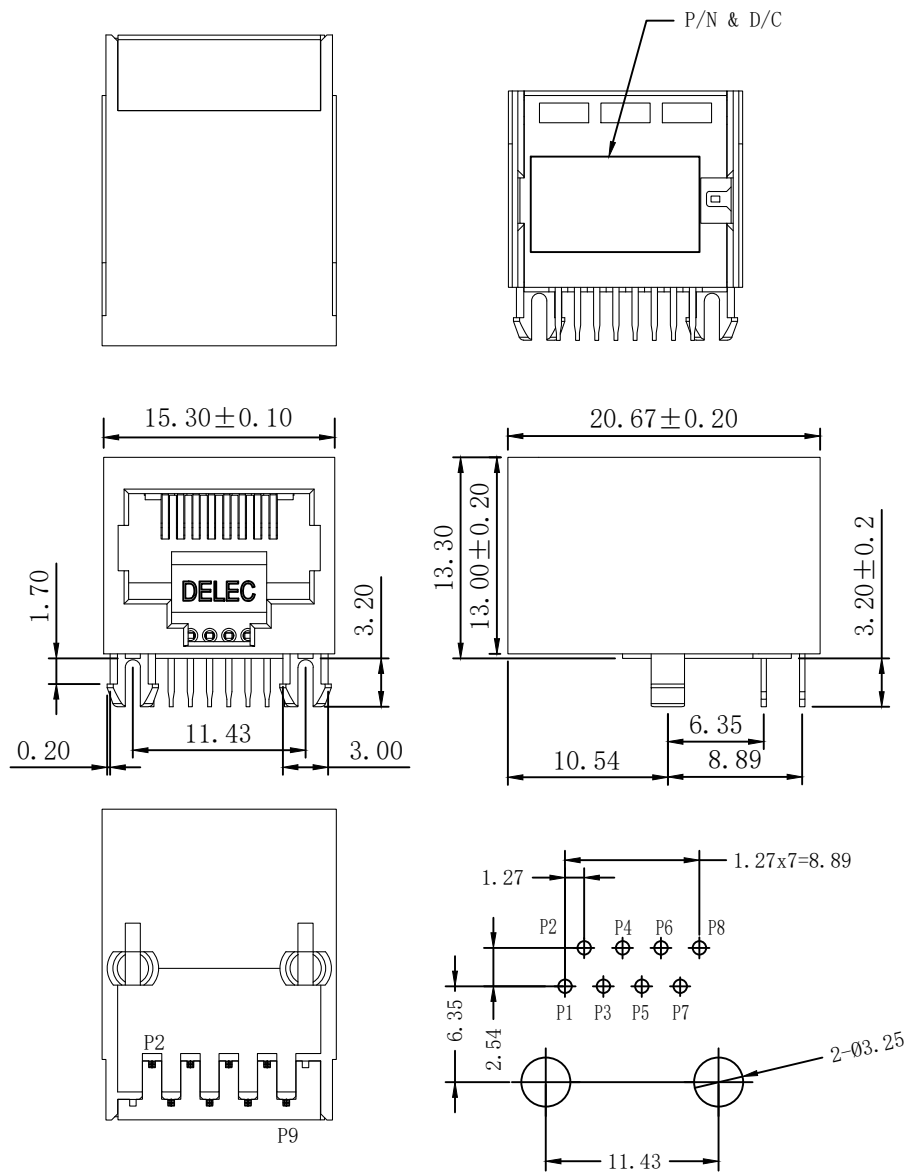
1MHz~100 MHz -35dB MIN.

Cross Talk:

1MHz~100MHz -35dB MIN.

TITLE 10/100 BASE-T 1X1 PORT TAB DOWN RJ45 CONNECTOR WITHOUT SHIELD AND LED				RoHS Compliant		DELEC 多亞電子有限公司 Duoya Electronics Co.,Ltd		
PART NO. DY59-AD31012-00G				GENERAL TOLERANCE			UNIT: MM(INCH)	SIZE: A4
DRAW	Chen	DATE	2026-07-30	.X±0.35	.X±1°	SCALE: 1:1	SHEET: 3/5	REV: B
CHECK	Weide Li	DATE	2026-07-30	.XX±0.25	.XX±0.5°			
APPROVE	De	DATE	2026-07-30	.XXX				

MECHANICAL DIMENSION



SPECIFICATION AND PERFORMANCE

1 Scope

This specification covers the requirements for product performance, tests and quality assurance provisions for side entry PCB jack

2 Applicable document

The following documents form a part of this specification to the extent specified herein. In the event of conflict between the requirements of this specification and the product drawing shall take precedence

3 Materials

Housing:Glass filled polyester PBT, (Color :White)

Contact: Phosphor bronze t=0.35mm flat pin

Shield: 0.20mm thickness copper alloy with nickel plated

Plating: 6U"Gold plating over nickel

PCB retention fre-solder:1LB min.

4 Mechanical characteristics:

Durability:750(modular jack) insertion/plug dimension cycles

Mates with modular plug conforming to FCC part 68 subpart F.

5 Electrical

Current rating: 1.5AMP

Voltage rating: 125VAC max.

Contact resistance: 30 milliohms max.

Insulation resistance: 500 megohms min.@500 VDC.

Dielectric strength: 2250 VDC .

6 Environmental:

Operating temperature: 0℃~+70℃

Storage temperature: -40℃~+85℃

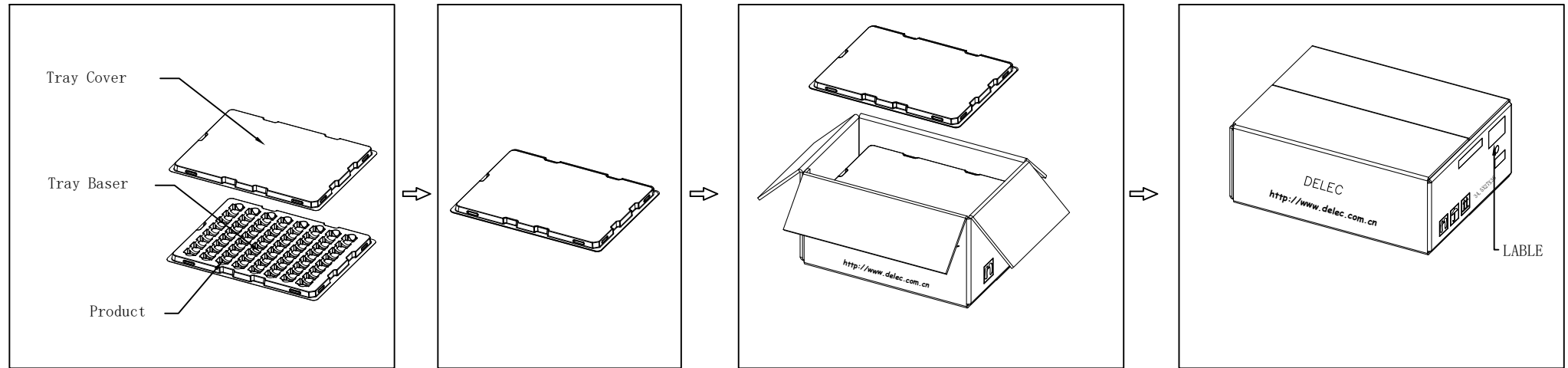
7 Applicable printed circuit board

The product is designed to meet the electrical, mechanical and environmental performance requirements specified in product drawing

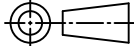
RECOMMENDED PCB LAYOUT
(COMPONENT SIDE VIEW)

TITLE 10/100 BASE-T 1X1 PORT TAB DOWN RJ45 CONNECTOR WITHOUT SHIELD AND LED						RoHS Compliant		DELEC 多亞電子有限公司 Duoya Electronics Co.,Ltd	
PART NO. DY59-AD31012-00G						GENERAL TOLERANCE		UNIT: MM(INCH)	SIZE: A4
DRAW	Chen	DATE	2026-07-30	.X±0.35	.X±1°	SCALE: 1:1		SHEET: 4/5	REV: B
CHECK	Weide Li	DATE	2026-07-30	.XX±0.25	.XX±0.5°				
APPROVE	De	DATE	2026-07-30	.XXX					

PACKAGE INFORMATION AND LABEL



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

TITLE 10/100 BASE-T 1X1 PORT TAB DOWN RJ45 CONNECTOR WITHOUT SHIELD AND LED						 多亞電子有限公司 Duoya Electronics Co.,Ltd		
PART NO. DY59-AD31012-00G				GENERAL TOLERANCE			UNIT: MM(INCH)	SIZE: A4
DRAW	Chen	DATE	2026-07-30	.X±0.35	.X±1°	SCALE: 1:1	SHEET: 5/5	REV: B
CHECK	Weide Li	DATE	2026-07-30	.XX±0.25	.XX±0.5°			
APPROVE	De	DATE	2026-07-30	.XXX				