

10/100Base-TX RJ45 Connector With Integrated Magnetics(1×1 Tab-Down)

Link-PP Int'l Technology

※Designed to support applications, such as SOHO (ADSL modems), LAN-on-Motherboard (LOM), Hub and Switches.

※1x1 Tab-DOWN RJ45 with internal magnetics

※Available with or without LEDs

※Meets or exceeds IEEE 802.3 standard for 10/100Base-T

※350uH minimum OCL with 8 mA bias current

※For RoHS part add suffix NL

※RoHS “NL” peak solder rating 235°C



10 Base-T Electrical Specifications @25°C --- Operating Temperature 0°C to +70°C									
Part Number	Data Rate	Pri OCL (uH MIN)	Turns Ratios		Insertion Loss (dB MAX)	Return Loss (dB MIN) 100Ω±15Ω	Crosstalk (dB MIN)	Common Mode Rejection (dB MIN)	Hipot (Vrms) @ 60Hz 1 MIN
			TX	RX					
LPJ0015	10 BT	200	1CT:2.5CT	1CT:1CT	-1	-15	-30	-25	1500
LPJ0022	10 BT	150	1CT:1CT	1CT:1CT	-1	-15	-30	-25	1500
LPJ0055	10 BT	200	1CT:2.5	1CT:1	-1	-15	-30	-25	1500
LPJ0057	10 BT	200	1CT:2.5CT	1CT:1CT	-1	-15	-30	-25	1500
LPJ0125	10BT	200	1CT:1.41	1CT:1	-1	-15	-30	-25	1500
LPJ0215	10BT	200	1CT:1	1CT:1	-1	-15	-30	-25	1500

10/100 Base-T Electrical Specifications @25°C --- Operating Temperature 0°C to +70°C												
Part Number	Turns Ratios		Insertion Loss (dB MAX)	Return Loss (dB MIN) 100Ω±15Ω				Crosstalk (dB MIN)			Common Mode Rejection (dB MIN)	Hipot (Vrms) @ 60Hz 1 MIN
	TX	RX		1-65 MHz	1-10 MHz	10-30 MHz	30-60 MHz	60-100 MHz	1-30 MHz	30-60 MHz	60-100 MHz	
LPJ0006	1CT:1	1CT:1	-1	-20	-20	-16	-12	-10	-40	-35	-30	1500
LPJ0011	1CT:1CT	1CT:1CT	-1	-20	-20	-16	-12	-10	-40	-35	-30	1500
LPJ0012	1CT:1CT	1CT:1CT	-1	-20	-20	-16	-12	-10	-40	-35	-30	1500
LPJ0018	1CT:1.4CT	1CT:1CT	-1	-20	-20	-16	-12	-10	-40	-35	-30	1500
LPJ0024	1CT:2	1CT:1	-1	-20	-20	-16	-12	-10	-40	-35	-30	1500
LPJ0026	1CT:1	1CT:1CT	-1	-20	-20	-16	-12	-10	-40	-35	-30	1500
LPJ0033	1.25CT:1CT	1CT:1CT	-1	-20	-20	-16	-12	-10	-40	-35	-30	1500
LPJ0035	1CT:1	1CT:1CT	-1	-20	-20	-16	-12	-10	-40	-35	-30	1500
LPJ0048	1CT:1	1CT:1	-1	-20	-20	-16	-12	-10	-40	-35	-30	1500
LPJ0049	1CT:1	1CT:1	-1	-18	-18	-14	-10	-10	-35	-35	-35	1500
LPJ0073	1CT:2.5	1CT:1	-1	-20	-20	-16	-12	-10	-40	-35	-30	1500
LPJ0107	1CT:1CT	1CT:1CT	-1.1	-18	-18	-14	-10	-10	-43	-43	-38	1500

NOTE: 1. Standard(STD) Operating Temperaturer is 0°C to +70°C

2. Extended(EXT)operating temperature is -40°C to +85°C

3. This part Support POEm function

LPJ XXXX X X NL

→ RoHS

→ LED Table (2)

→ Mechanitic (1)

→ Model:Schematic

(2)LED Ordering Options:

(1)LPJ Series Mechanical:

A	With Staggered Led Footprint and EMI-Finger
B	With Staggered Led Footprint and Non EMI-Finger
C	Without LED, With EMI-Finger
D	Without LED and EMI-Finger
E	With Inline Led Footprint and EMI-Finger(4.90mm*)
F	With Inline Led Footprint and Non EMI-Finger(4.90mm*)
G	With Inline Led Footprint and EMI-Finger(4.06mm*)
H	With Inline Led Footprint and Non EMI-Finger(4.06mm*)

LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
A	YELLOW	GREEN	9
B	GREEN	YELLOW	10
C	GREEN	GREEN	12
D	YELLOW	GREEN	11
E	GREEN	YELLOW	9
F	GREEN	GREEN	10
G	YELLOW	GREEN	12
H	GREEN	YELLOW	9
W	GREEN	GREEN	12

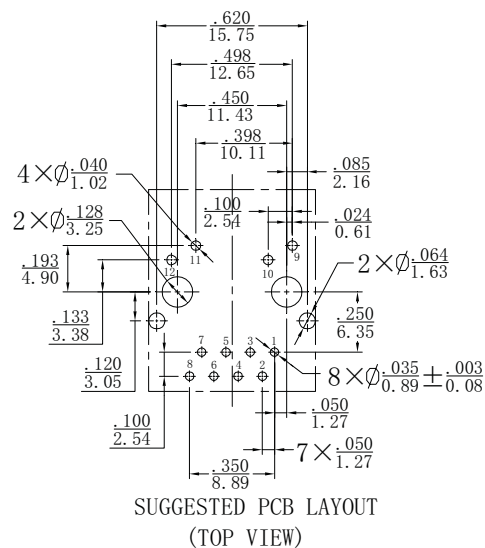
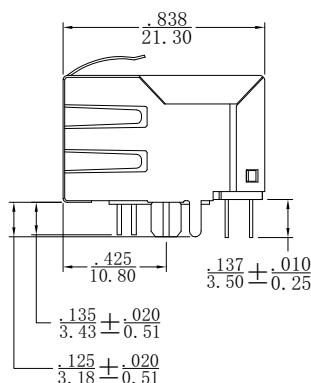
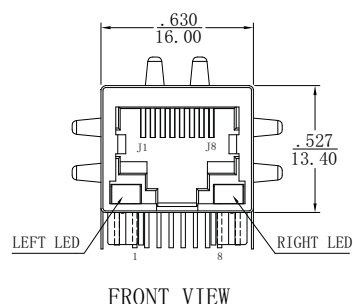
“*” The distance between Led Pin and Plastic Post

10/100Base-TX RJ45 Connector With Integrated Magnetics (1×1 Tab-Down)

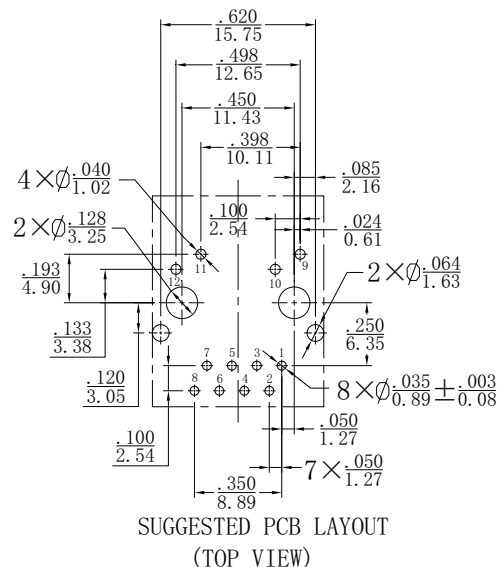
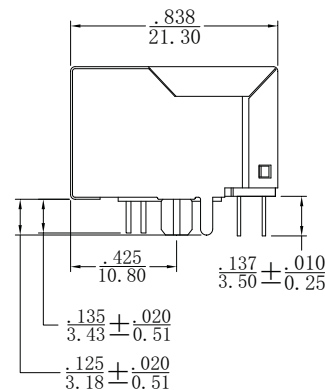
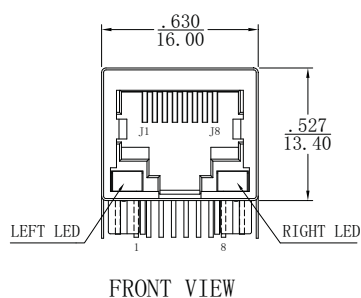
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LPJ00XXXXNL Series Mechanicals

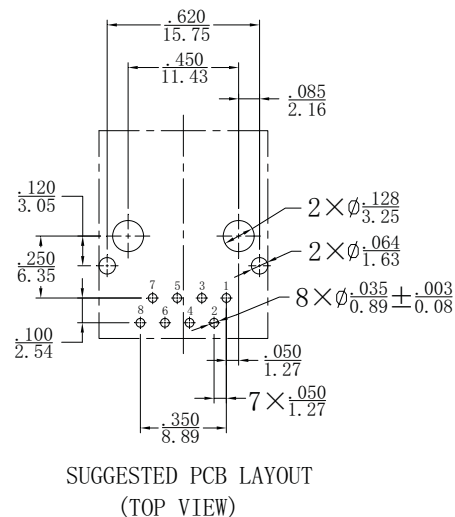
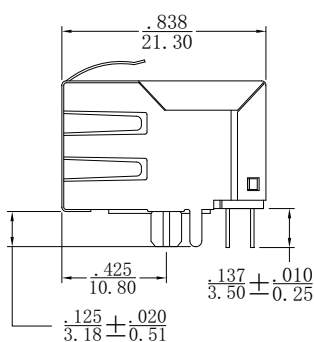
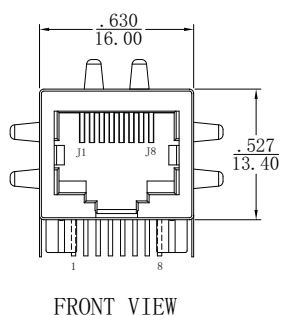
A



B



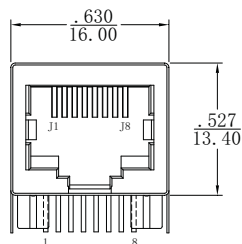
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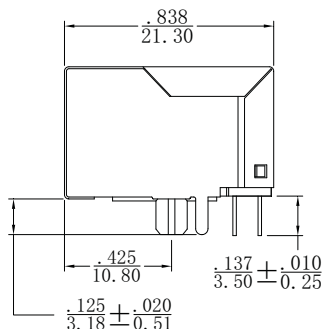
10/100Base-TX RJ45 Connector With Integrated Magnetics (1×1 Tab-Down)

Link-PP Int'l Technology

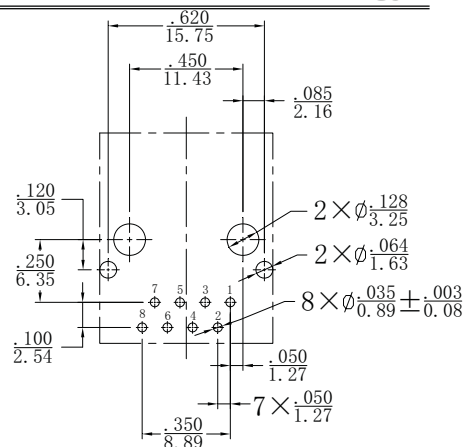
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FRONT VIEW

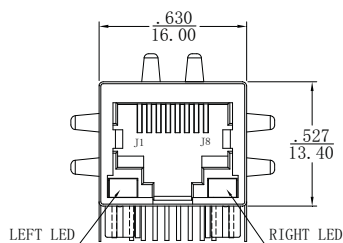


SIDE VIEW

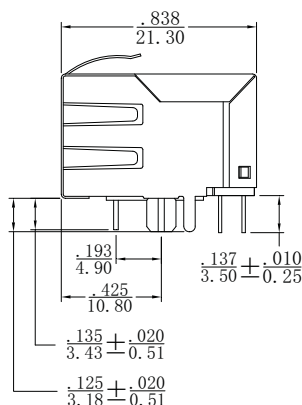


SUGGESTED PCB LAYOUT (TOP VIEW)

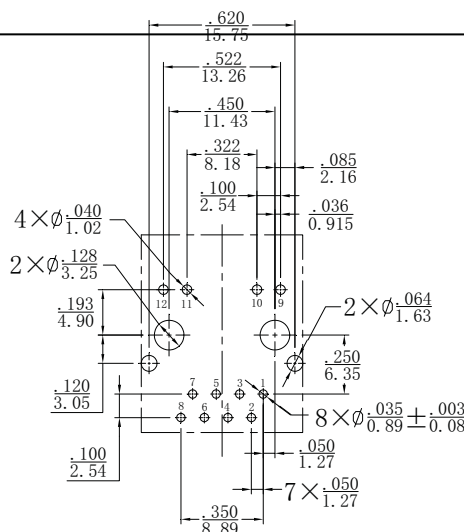
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FRONT VIEW

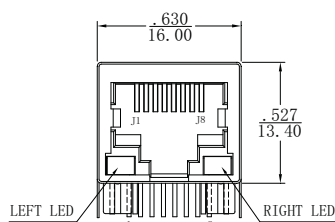


SIDE VIEW

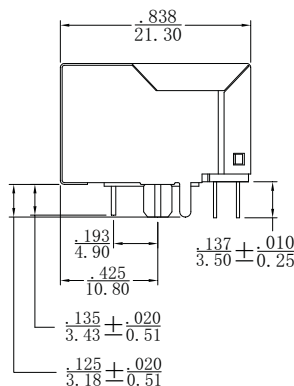


SUGGESTED PCB LAYOUT (TOP VIEW)

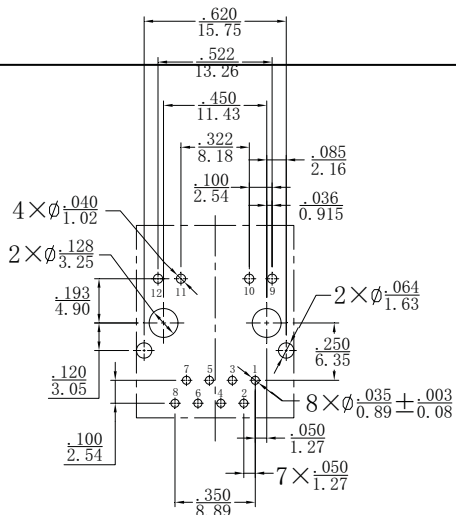
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FRONT VIEW



SIDE VIEW

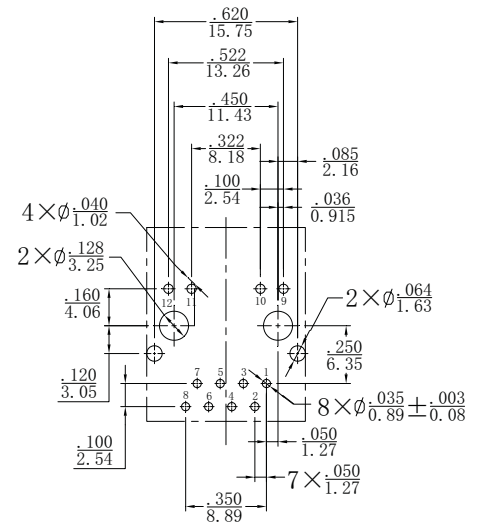
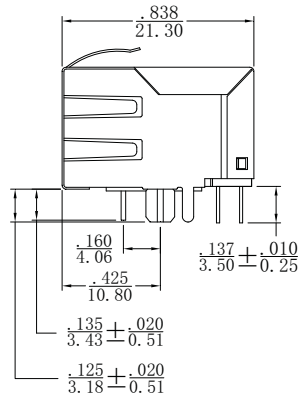
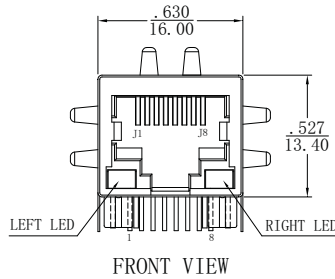


SUGGESTED PCB LAYOUT (TOP VIEW)

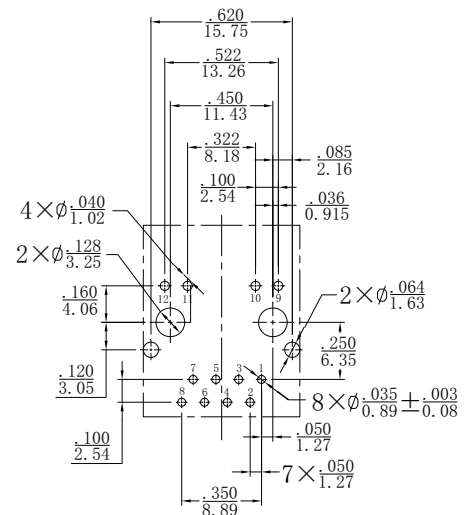
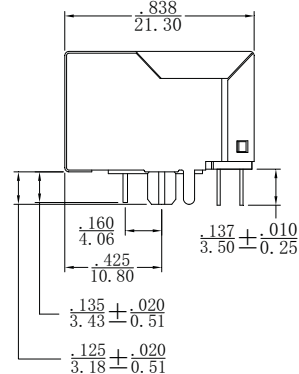
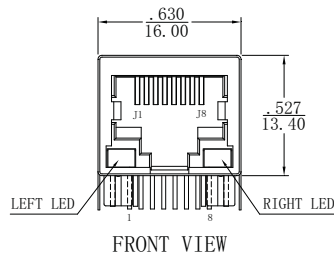
10/100Base-TX RJ45 Connector With Integrated Magnetics (1×1 Tab-Down)

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G



H



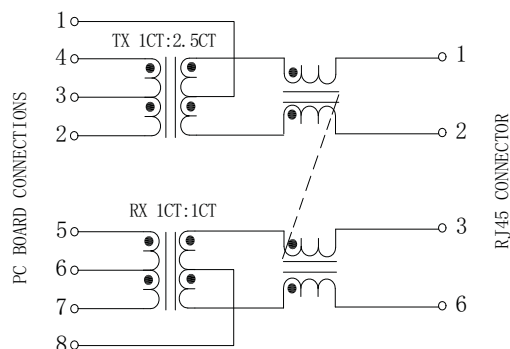
Dimensions: Inch/mm
Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0.25}$

10 Base-TX RJ45 Connector With Integrated Magnetics (1×1 Tab-Down)

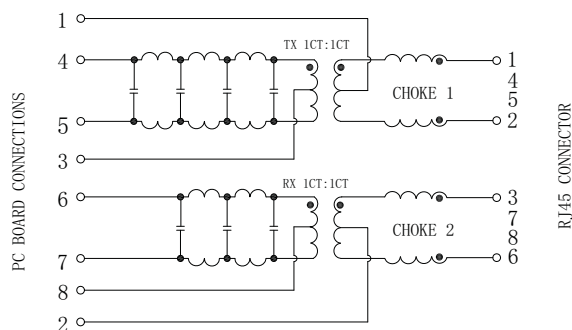
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Schematics

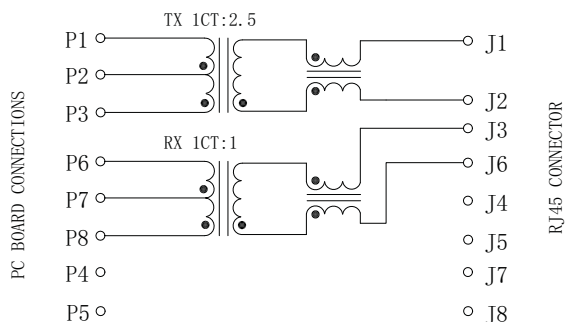
LPJ0015



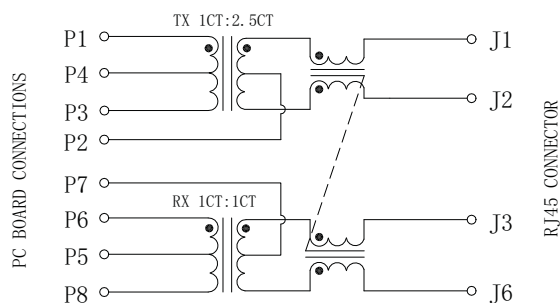
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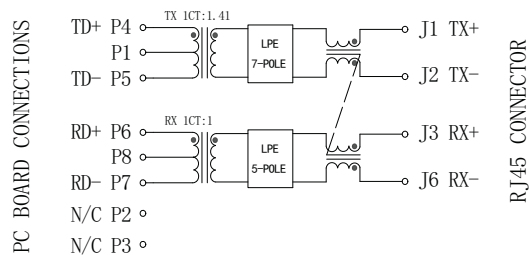
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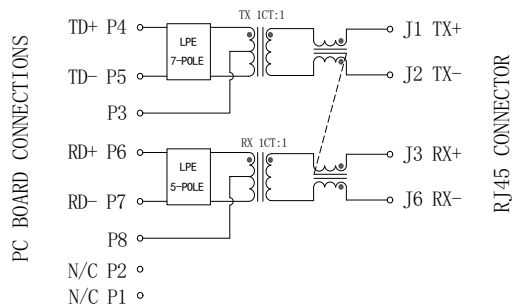
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LPJ0125



LPJ0215

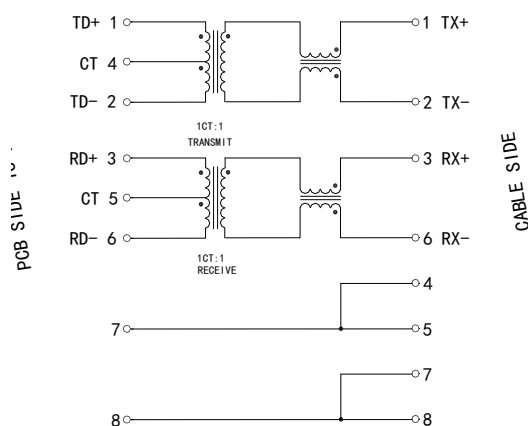


10/100Base-TX RJ45 Connector With Integrated Magnetics (1×1 Tab-Down)

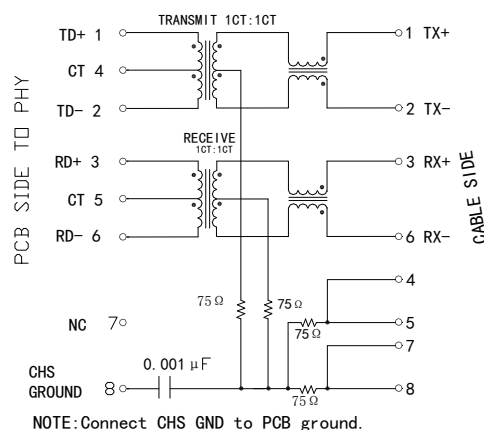
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Schematics

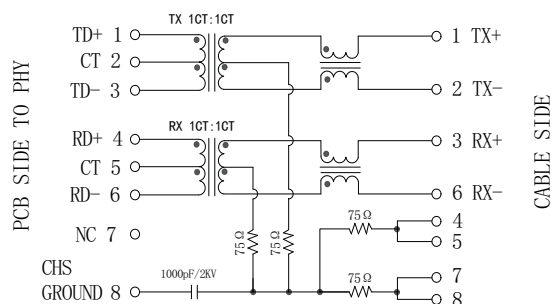
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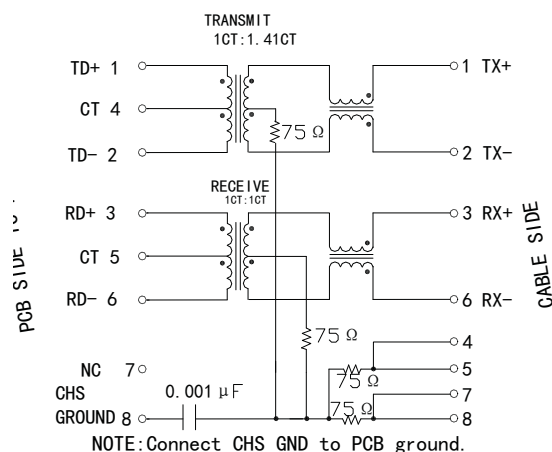
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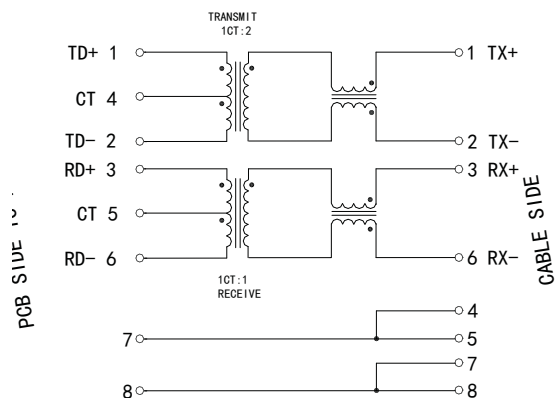
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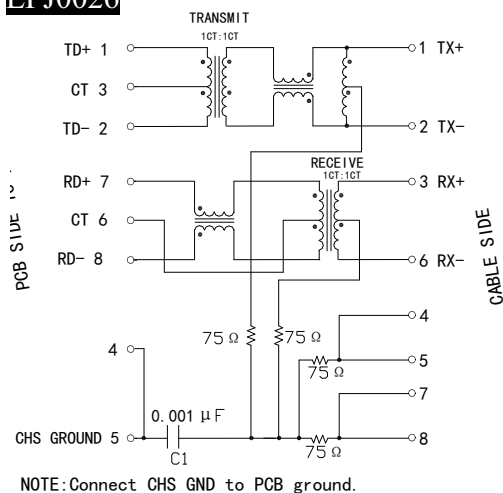
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LPJ0024



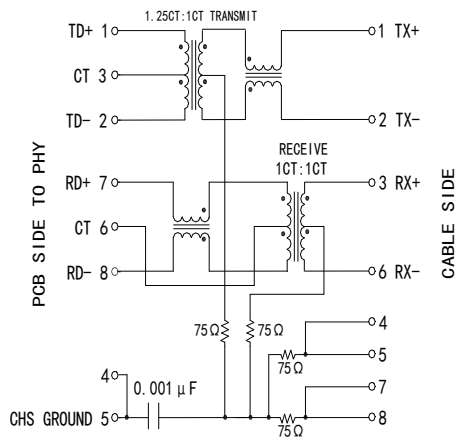
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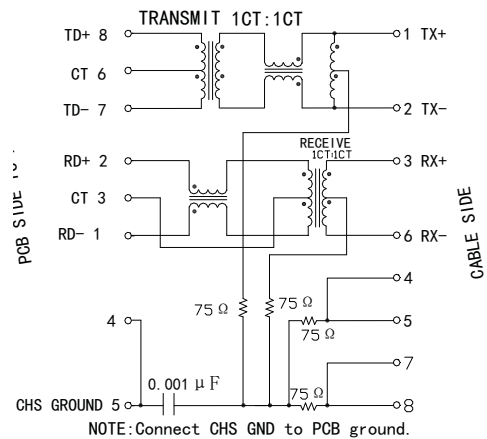
10/100Base-TX RJ45 Connector With Integrated Magnetics (1×1 Tab-Down)

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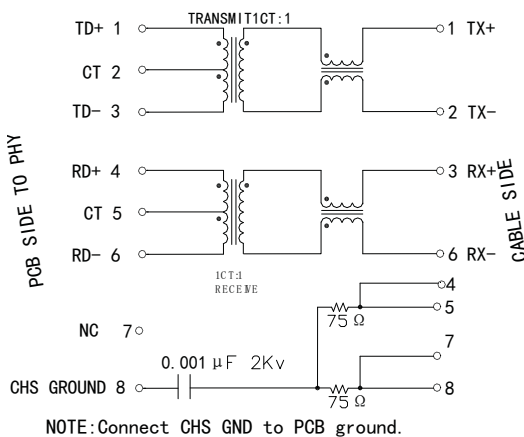
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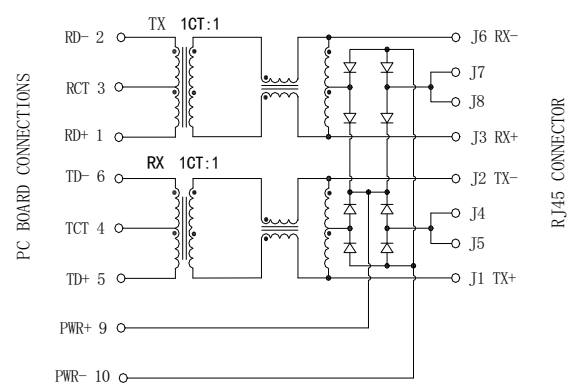
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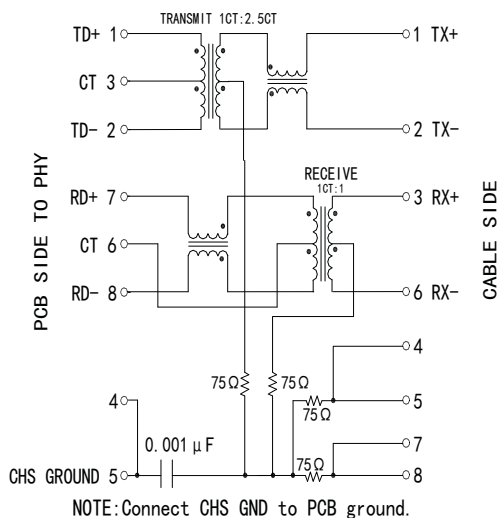
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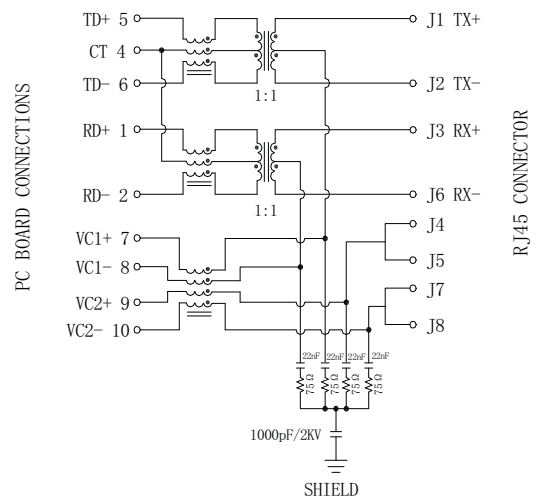
LPJ0049



LPJ0073



LPJ0107



10/100 Base-T RJ45 1×N Tab-Down Jack With Magnetic Module

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- ※RJ45 1×N,Tab-Down 8-pin with internal magnetics
- ※Available with and without LEDs
- ※Suitable for CAT 5 and 6 Fast Ethernet cable or better UTP
- ※350uH minimum OCL with 8mA bias current
- ※For RoHS part add suffix NL
- ※RoHS “NL” peak solder rating 235°C



Electrical Specifications @25°C --- Operating Temperature 0°C to 70°C

Part Number	Turns Ratio		Insertion Loss	Return Loss (dB)			Cross Talk(MIN)dB			CMR (dB)		HI-PO T
	TX	RX	0.1-100MHz	1-10MHz	30MHz	60-100MHz	1-10MHz	30-60MHz	60-100MHz	1-50MHz	50-130MHz	
LPJX6201	1CT:1C ↑	1CT:1C ↑	-1.2	-18	-16	-12	-40	-35	-30	-30	-20	1500V
LPJX6202	1CT:1C ↑	1CT:1C ↑	-1.2	-18	-16	-12	-40	-35	-30	-30	-20	1500V
LPJX6203	1CT:1C ↑	1CT:1C ↑	-1.2	-18	-16	-12	-40	-35	-30	-30	-20	1500V
LPJX6204	1CT:1C ↑	1CT:1C ↑	-1.2	-18	-16	-12	-40	-35	-30	-30	-20	1500V

NOTE: X=2,4,6,8 If these transformers's operating temperature -40°C~+85°C,to weave “LPJX64XXXXNL”.

LPJ XXXX X X NL

- RoHS
- LED Table (2)
- Mechanic (1)
- Model:Schematic

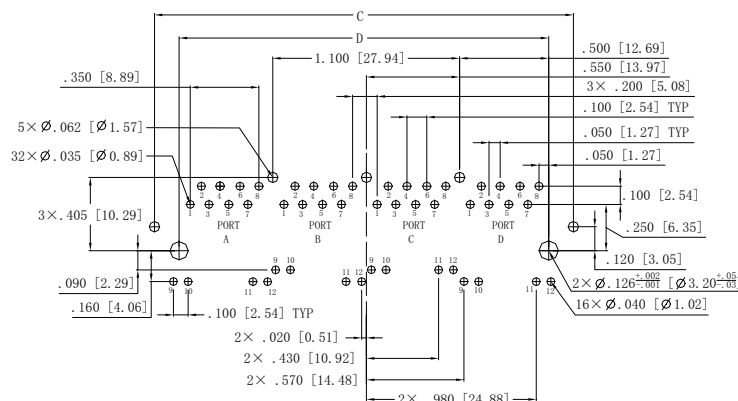
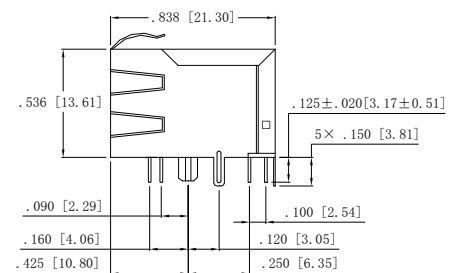
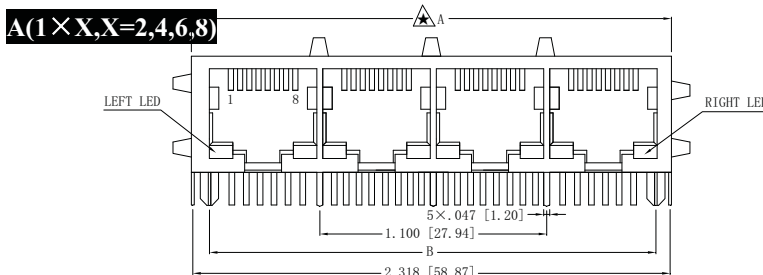
(1)LPJ Series Mechanical:

A	With Led EMI-Finger
B	With Led and Non EMI-Finger
C	Without LED, With EMI-Finger
D	Without LED and EMI-Finger

(2)LED Ordering Options:

LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
A	YELLOW	GREEN	9 10 11 12
B	GREEN	YELLOW	10 11 12 9
C	GREEN	GREEN	11 12 9 10
D	YELLOW	GREEN	9 10 11 12
E	GREEN	YELLOW	10 11 12 9
F	GREEN	GREEN	12 9 10 11
G	YELLOW	GREEN	10 9 11 12
H	GREEN	YELLOW	9 10 12 11
W	GREEN	GREEN	11 12 9 10

Mechanical



SUGGESTED PCB LAYOUT (TOP VIEW)

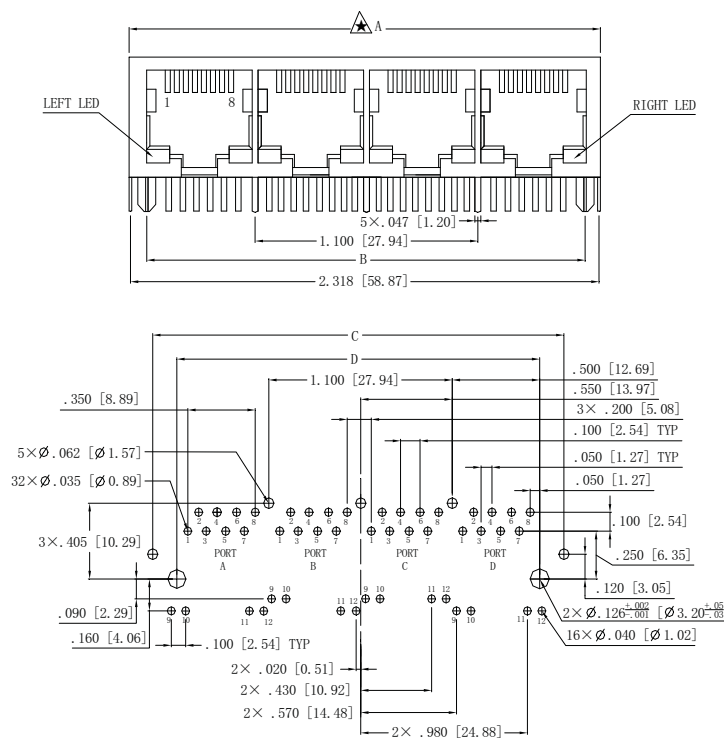


1×X PORT	1×X PORT LENGTH			
1×2	A=31.28	B=25.4	C=30.93	D= 25.4
1×4	A=59.18	B=53.34	C=58.93	D= 53.34
1×6	A=87.07	B=81.28	C=86.82	D=81.28
1×8	A=115.0	B=109.2	C=114.8	D=109.2

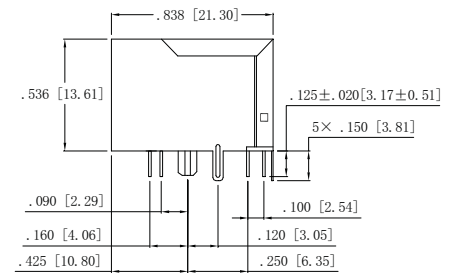
10/100 Base-T RJ45 1×N Tab-Down Jack With Magnetic Module

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B(1×X,X=2,4,6,8)

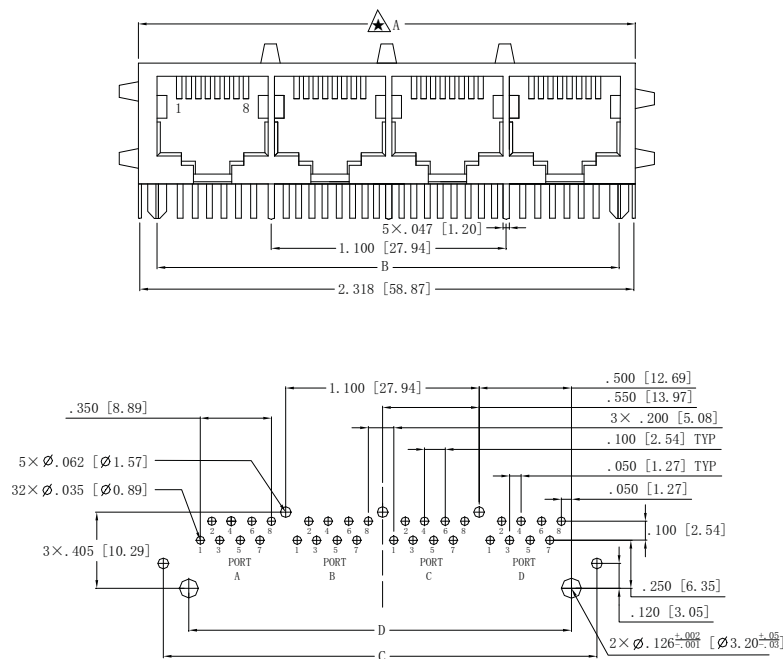


SUGGESTED PCB LAYOUT (TOP VIEW)

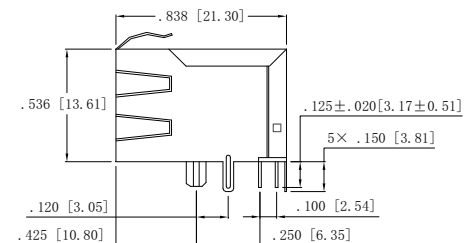


1×X PORT	1×X PORT LENGTH			
1×2	A=31.28	B=25.4	C=30.93	D=25.4
1×4	A=59.18	B=53.34	C=58.93	D=53.34
1×6	A=87.07	B=81.28	C=86.82	D=81.28
1×8	A=115.0	B=109.2	C=114.8	D=109.2

C(1×X,X=2,4,6,8)



SUGGESTED PCB LAYOUT (TOP VIEW)

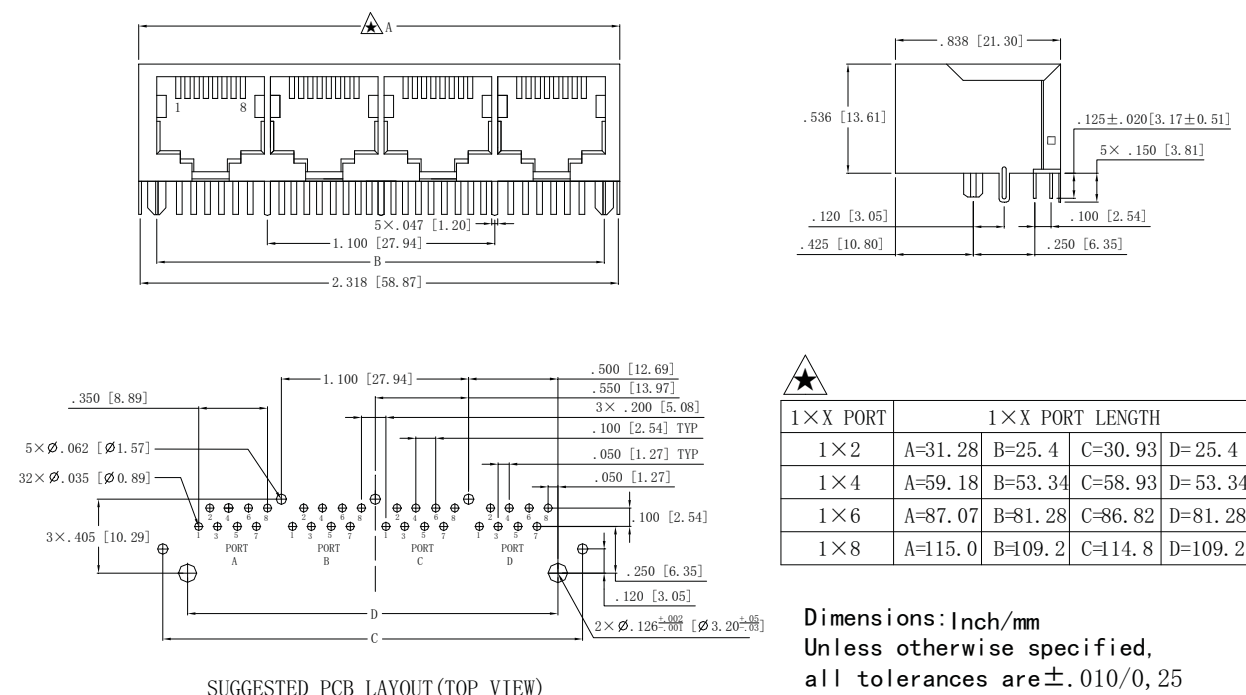


1×X PORT	1×X PORT LENGTH			
1×2	A=31.28	B=25.4	C=30.93	D=25.4
1×4	A=59.18	B=53.34	C=58.93	D=53.34
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1×8	A=115.0	B=109.2	C=114.8	D=109.2

10/100 Base-T RJ45 1×N Tab-Down Jack With Magnetic Module

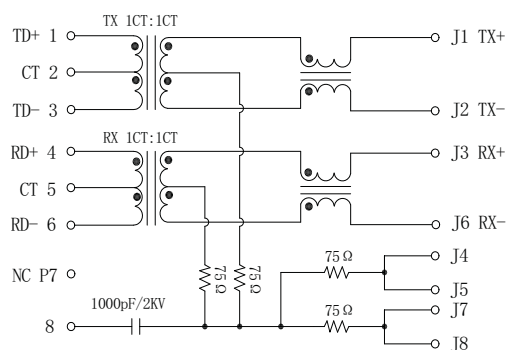
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D(1×X,X=2,4,6,8)

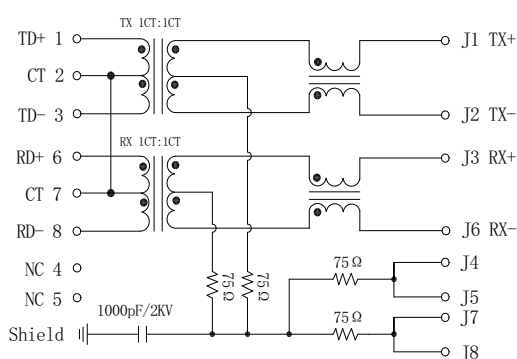


Schematics

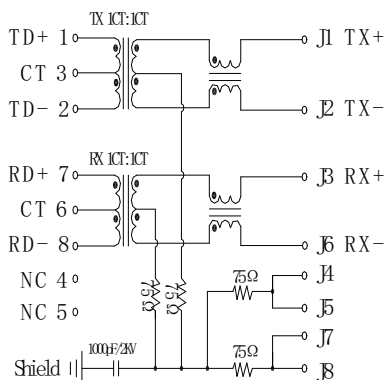
LPJX6201, X=2,4,6,8



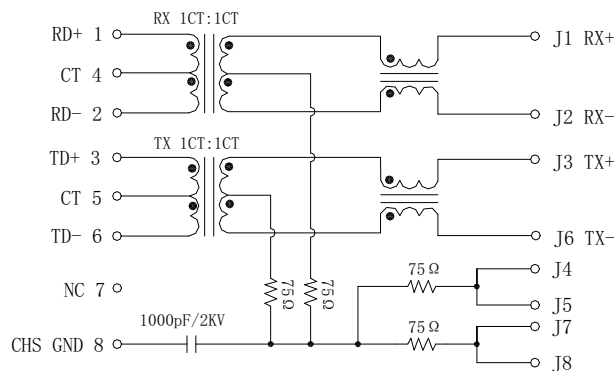
LPJX6202, X=2,4,6,8



LPJX6203, X=2,4,6,8



LPJX6204, X=2,4,6,8



1000 Base-T RJ45 1×N Tab-Down Jack With Magnetic Module

Link-PP Int'l Technology

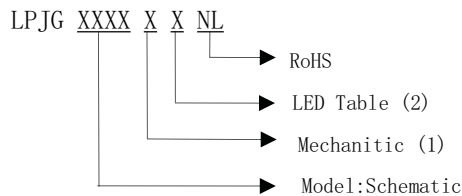
- ※RJ45 1×N,Tab-Down 8-pin with internal magnetics
- ※Available with and without LEDs
- ※Suitable for CAT 5 and 6 Fast Ethernet cable or better UTP
- ※350uH minimum OCL with 8mA bias current
- ※For RoHS part add suffix NL
- ※RoHS “NL” peak solder rating 235℃



Electrical Specifications @25℃ --- Operating Temperature 0℃ to 70℃

Part Number	Turns Ratio		Insertion Loss (dB MAX)	Return Loss (dB MIN)				Cross Talk (dB MIN)			CMR (dB MIN)		HI-PO T
	TX	RX		1-10 MHZ	10-30 MHZ	30-60 MHZ	60-100 MHZ	1-30 MHZ	30-60 MHZ	60-100MHZ	1-50MHZ	50-150MHZ	
LPJGX6806	1CT:1C T	1CT:1C T	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500V
LPJGX6813	1CT:1C T	1CT:1C T	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500V
LPJGX6836	1CT:1C T	1CT:1C T	-1.0	-20	-16	-12	-10	-43	-35	-33	-30	-20	1500V
LPJGX6840	1CT:1C T	1CT:1C T	-1.0	-16	-16	-12	-10	-40	-35	-30	-30	-20	1500V

NOTE: X=2,4,6,8 If these transformers's operating temperature -40℃~+85℃,to weave “LPJGX69XXXXNL”.



(2)LED Ordering Options:

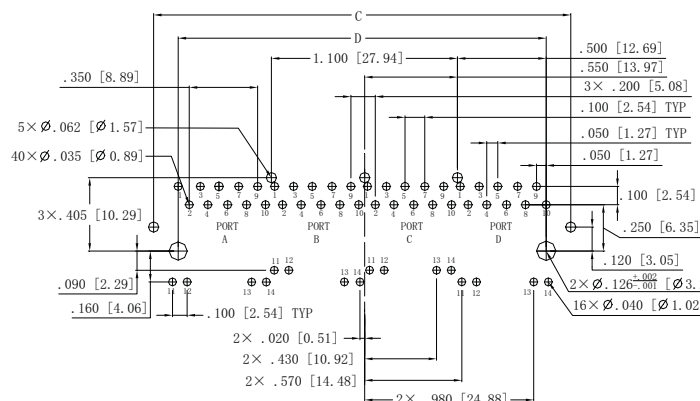
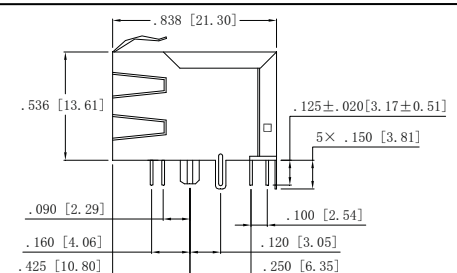
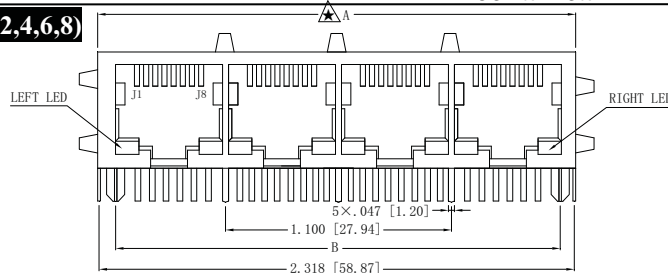
LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
A	YELLOW	GREEN	11○ 12○ 14○ 13○
B	GREEN	YELLOW	11○ 12○ 14○ 13○
C	GREEN	GREEN	11○ 12○ 14○ 13○
D	YELLOW	GREEN	11○ 12○ 14○ 13○
E	GREEN	YELLOW	11○ 12○ 14○ 13○
F	GREEN	GREEN	11○ 12○ 14○ 13○
G	YELLOW	GREEN	12○ 11○ 14○ 13○
H	GREEN	YELLOW	12○ 11○ 14○ 13○
W	GREEN	GREEN	12○ 11○ 14○ 13○

(1)LPJG Series Mechanical:

A	With Led EMI-Finger
B	With Led and Non EMI-Finger
C	Without LED, With EMI-Finger
D	Without LED and EMI-Finger

Mechanical

A(1×X,X=2,4,6,8)



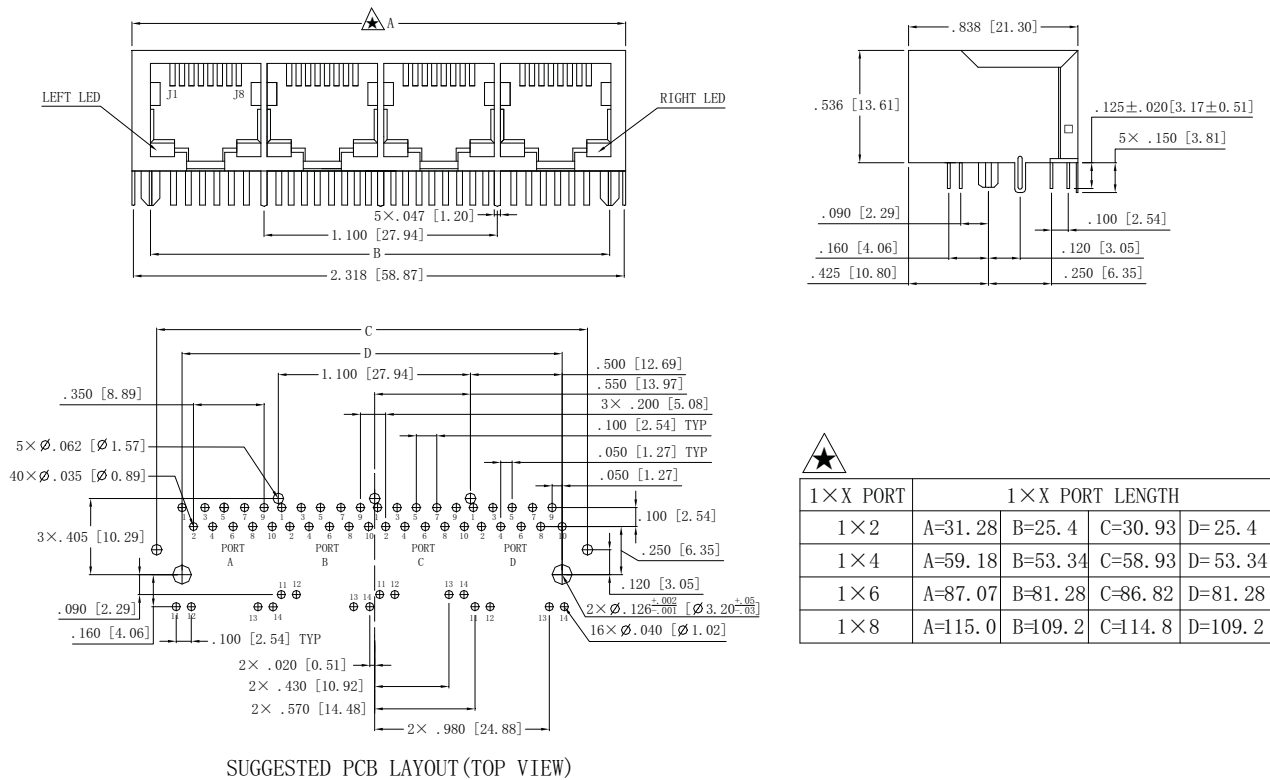
1×X PORT	1×X PORT LENGTH			
1×2	A=31.28	B=25.4	C=30.93	D= 25.4
1×4	A=59.18	B=53.34	C=58.93	D= 53.34
1×6	A=87.07	B=81.28	C=86.82	D=81.28
1×8	A=115.0	B=109.2	C=114.8	D=109.2

SUGGESTED PCB LAYOUT (TOP VIEW)

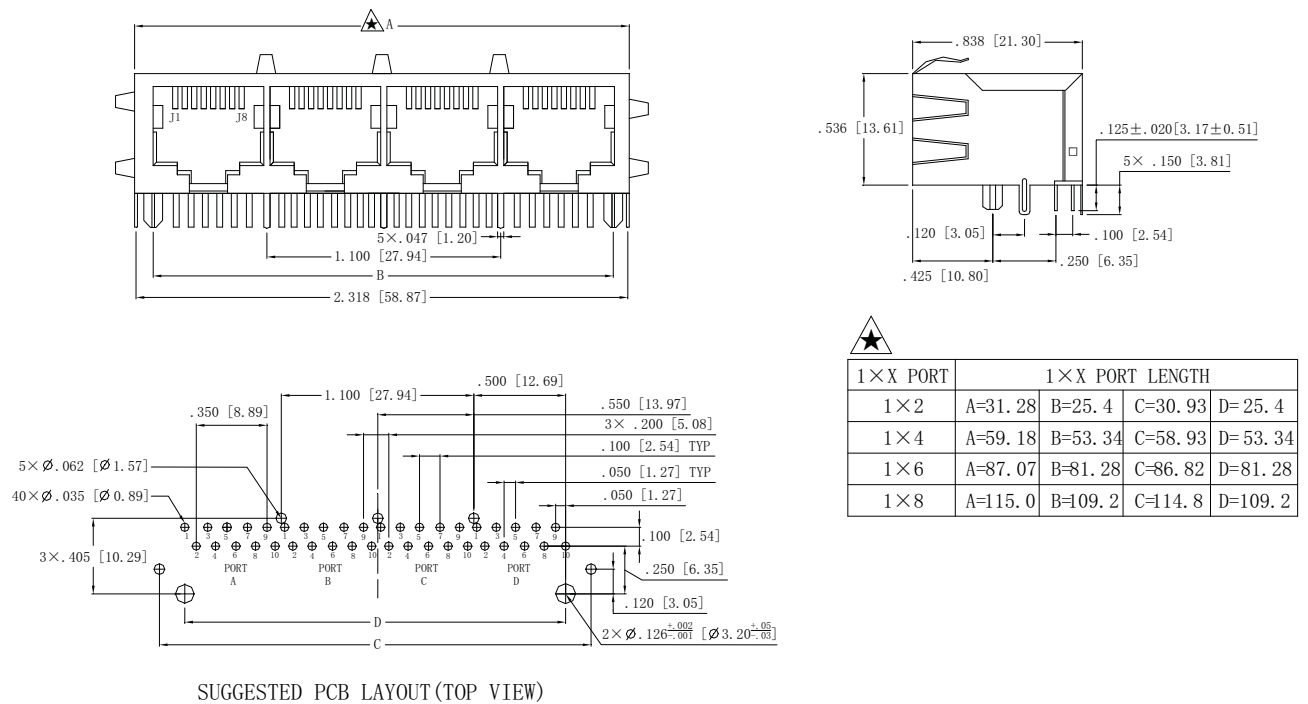
1000 Base-T RJ45 1×N Tab-Down Jack With Magnetic Module

Link-PP Int'l Technology

B(1×X,X=2,4,6,8)



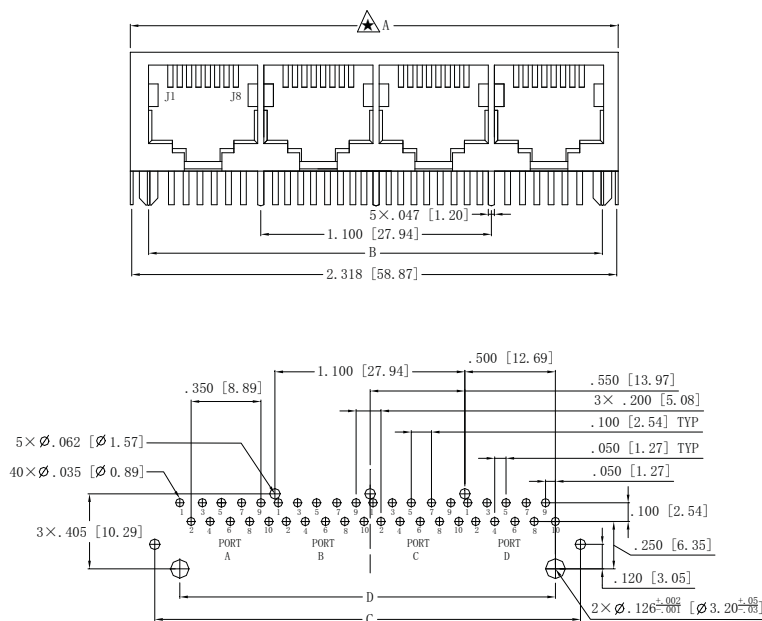
C(1×X,X=2,4,6,8)



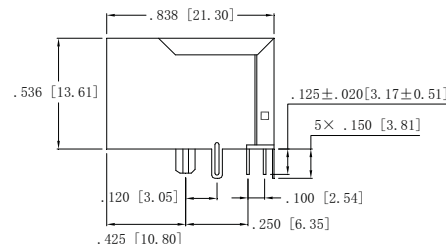
1000 Base-T RJ45 1×N Tab-Down Jack With Magnetic Module

Link-PP Int'l Technology

D(1×X,X=2,4,6,8)



SUGGESTED PCB LAYOUT (TOP VIEW)

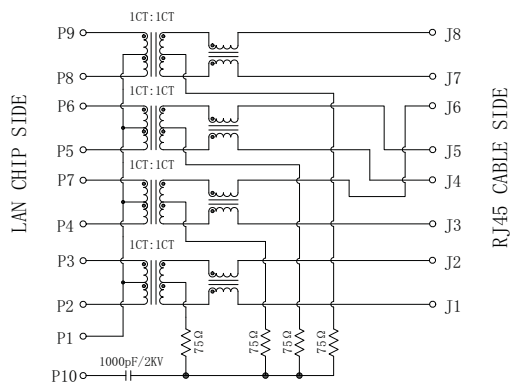


1×X PORT	1×X PORT LENGTH			
1×2	A=31.28	B=25.4	C=30.93	D=25.4
1×4	A=59.18	B=53.34	C=58.93	D=53.34
1×6	A=87.07	B=81.28	C=86.82	D=81.28
1×8	A=115.0	B=109.2	C=114.8	D=109.2

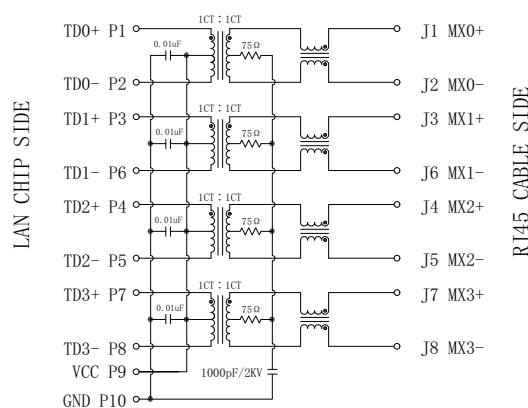
Dimensions: Inch/mm
Unless otherwise specified,
all tolerances are $\pm .010/0,25$

Schematics

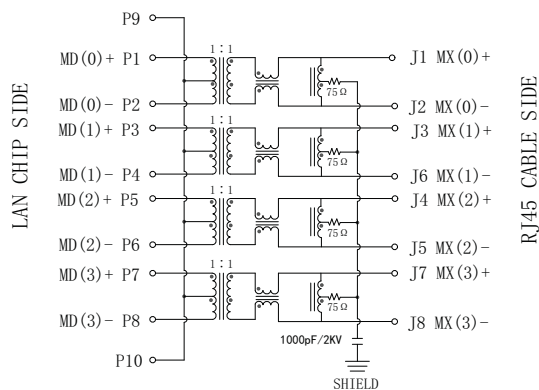
LPJGX6806, X=2,4,6,8



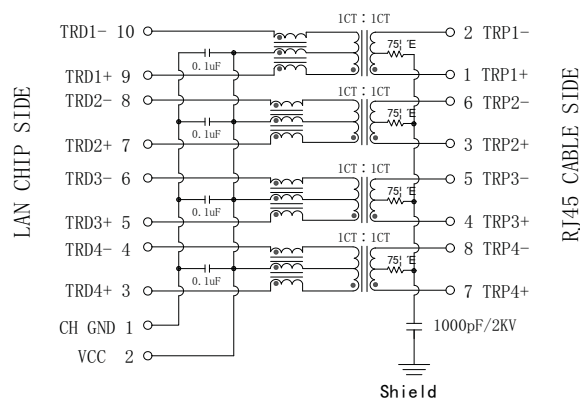
LPJGX6813, X=2,4,6,8



LPJGX6836, X=2,4,6,8



LPJGX6840, X=2,4,6,8



Through Hole Tab-Up RJ45 Jack With 10/100 Magnetic

Link-PP Int'l Technology

※1X1 Tab-UP, 0.85" & 1" long with internal magnetics for 10/100 Base-TX

※Internal magnetics options available

※350uH minimum OCL with 8 mA bias current

※FOR ROHS part add suffix NL

※ROHS NL peak solder rating 235°C



Electrical Specifications @25°C --- Operating Temperature 0°C to +70°C

Part Number	Turns Ratios		Insertion Loss (dB MIN)	Return Loss (dB MIN)@100Ω				Crosstalk (dB MIN)			Common Mode Rejection (dB MIN)			Hipot (Vrms)
	TX	RX		1-30 MHz	40 MHz	50 MHz	60-80 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
LPJ16211	1CT:1CT	1CT:1CT	-1.2	-16	-14	-13	-10	-40	-36	-30	-35	-32	-30	1500
LPJ16212	1CT:1CT	1CT:1CT	-1.2	-16	-14	-13	-10	-40	-36	-30	-35	-32	-30	1500
LPJ16213	1CT:1CT	1CT:1CT	-1.2	-16	-14	-13	-10	-40	-36	-30	-35	-32	-30	1500
LPJ16214	1CT:1CT	1CT:1CT	-1.2	-16	-14	-13	-10	-40	-36	-30	-35	-32	-30	1500

NOTE: If these transformers' s operating temperature are -40°C~+85°C, to weave "LPJ166XXXXNL"

(2)LED Ordering Options:

TRJ XXXX X X NL
 ↳ ROHS
 ↳ LED Table(2)
 ↳ Mechanical Table(1)
 ↳ Model:Schematic

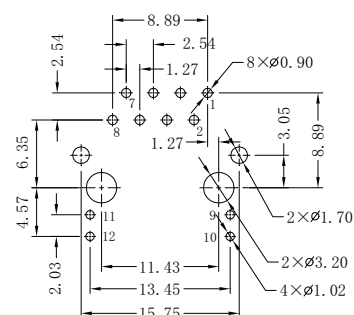
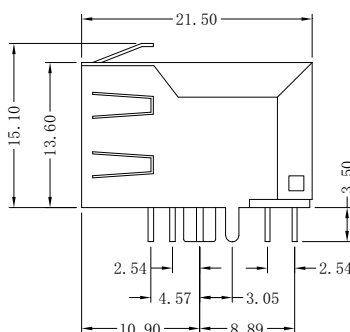
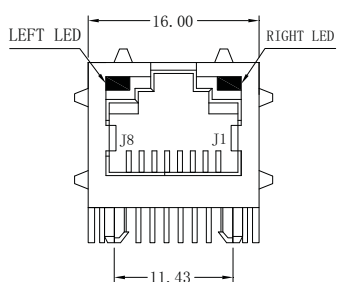
(1)TRJ Series Mechanical:

A	With Led and EMI-Finger
B	With Led and Non EMI-Finger
C	Without Led, but With EMI-Finger
D	Without Led and EMI-Finger

LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
A	YELLOW	GREEN	9°
B	GREEN	YELLOW	10°
C	GREEN	GREEN	12°
D	YELLOW	GREEN	11°
E	GREEN	YELLOW	9°
F	GREEN	GREEN	10°
G	YELLOW	GREEN	12°
H	GREEN	YELLOW	9°
W	GREEN	GREEN	10°

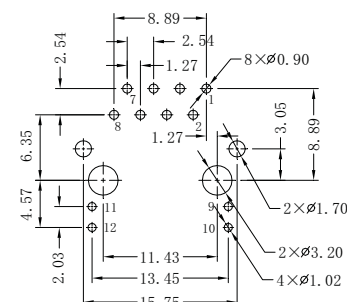
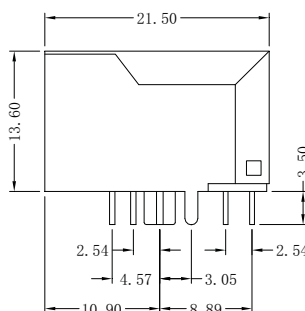
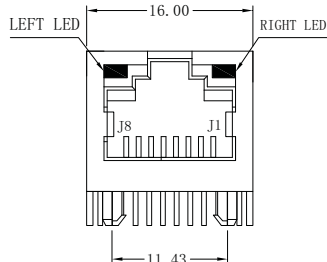
Mechanical

A



SUGGESTED PCB LAYOUT (TOP VIEW)

B

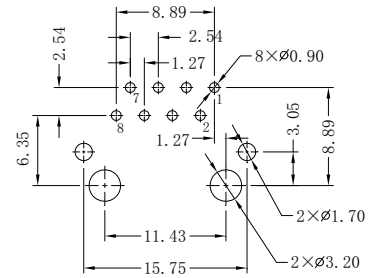
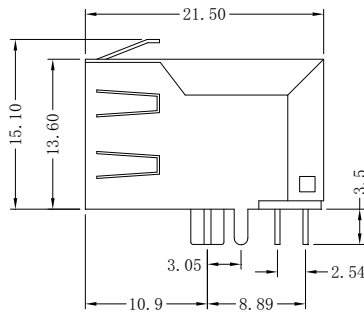
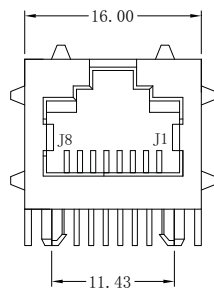


SUGGESTED PCB LAYOUT (TOP VIEW)

Through Hole Tab-Up RJ-45 Jack With 10/100 Magnetic

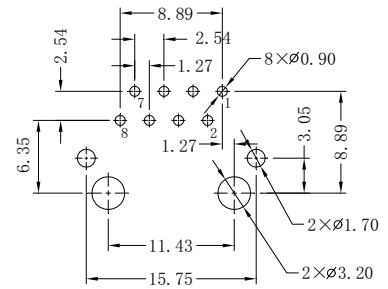
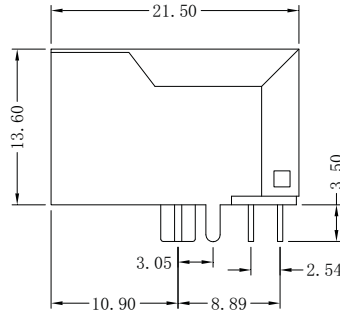
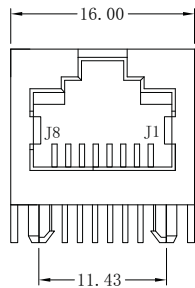
Link-PP Int'l Technology

C



SUGGESTED PCB LAYOUT (TOP VIEW)

D



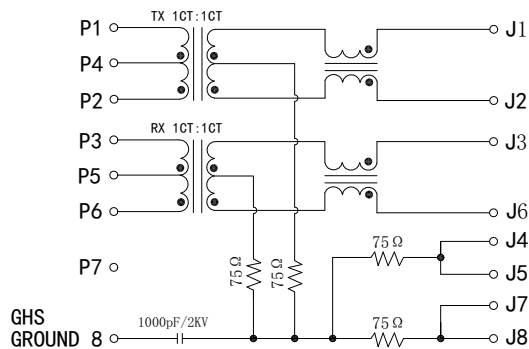
SUGGESTED PCB LAYOUT (TOP VIEW)

Dimensions: mm

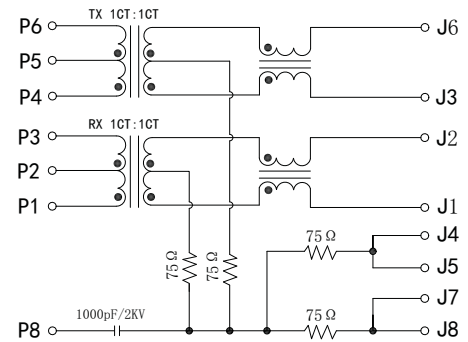
Unless otherwise specified, all tolerances are ± 0.25

Schematics

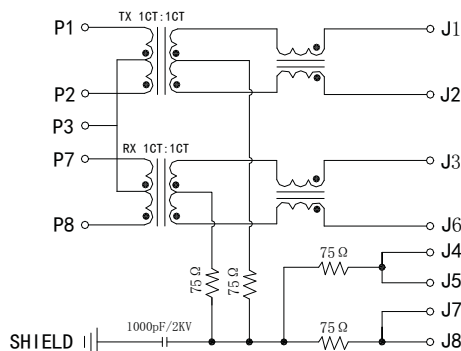
LPJ16211



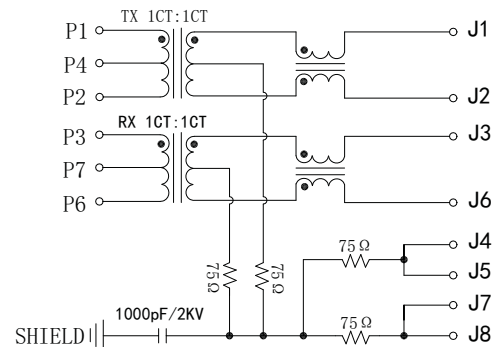
LPJ16212



LPJ16213



LPJ16214



10/100Base-TX RJ45 Connector With Integrated Magnetics(Tab-Up)

Link-PP Int'l Technology

- ※Designed to support applications, such as SOHO (ADSL Modems), LAN-on-Motherboard (LOM), Hub and Switches.
 - ※1x1 Tab-up RJ45 with internal magnetics
 - ※Available with or without LEDs
 - ※Meets or exceeds IEEE 802.3 standard for 10/100Base-T
 - ※350uH minimum OCL with 8 mA bias current
 - ※For RoHS part add suffix NL
 - ※RoHS “NL” peak solder rating 235°C
-

**Electrical Specifications @25°C --- Operating Temperature 0°C to +70°C**

Part Number	Turns Ratios		Insertion Loss (dB TYP) 100Ω±15Ω	Return Loss (dB TYP) 100Ω±15Ω				Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)		Hipot (Vrms)
	TX	RX		1-65 MHz	1-10 MHz	10-30 MHz	30-60 MHz	60-100 MHz	1-30 MHz	30-60 MHz	60-100 MHz	1- 50 MHz	
LPJ1001	1CT:1	1CT:1	-1	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
LPJ1002	1CT:1	1CT:1	-1	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
LPJ1006	1CT:1	1CT:1T	-1	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
LPJ1011	1CT:1	1CT:1	-1	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
LPJ1012	1CT:1	1CT:1	-1	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
LPJ1026	1CT:1	1CT:1	-1	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500

NOTE: If these transformers' s operating temperature are $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$, to weave "LPJ6XXXXXXNL".

(2) LED Ordering Options:

LPJ XXXX X X NL

→ RoHS

LED Table (2)

► Mechanitic (1)

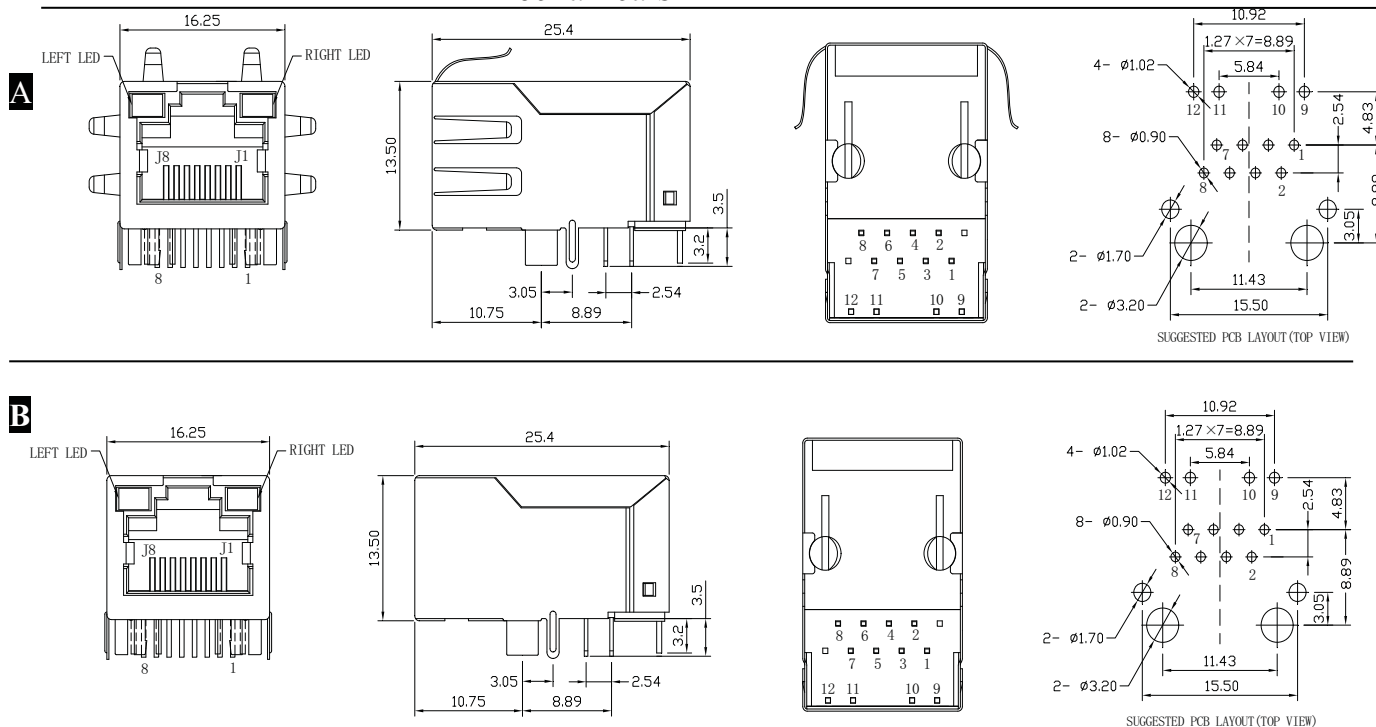
► Model:Schematic

(1)LPJ Series Mechanical:

A	With Led EMI-Finger
B	With Led and Non EMI-Finger
C	Without LED, With EMI-Finger
D	Without LED and EMI-Finger

LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
A	YELLOW	GREEN	9
B	GREEN	YELLOW	12
C	GREEN	GREEN	11
D	YELLOW	GREEN	9
E	GREEN	YELLOW	10
F	GREEN	GREEN	12
G	YELLOW	GREEN	10
H	GREEN	YELLOW	9
O	ORANGE/GREEN	YELLOW	10 9

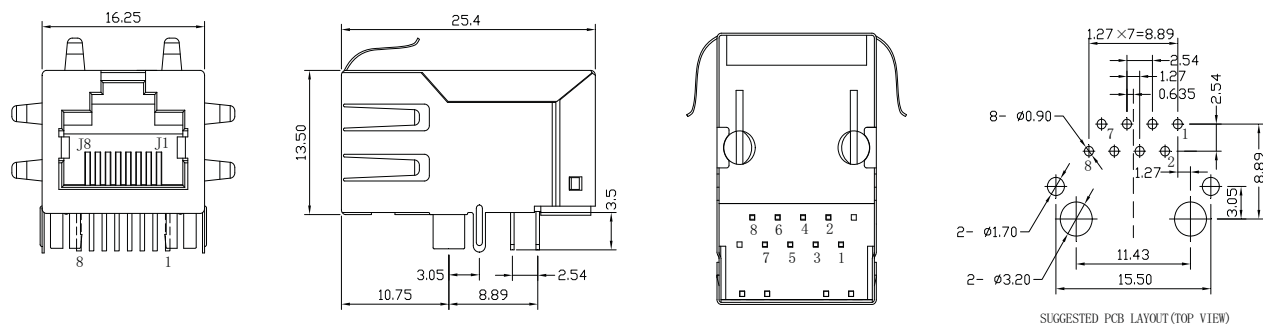
Mechanicals



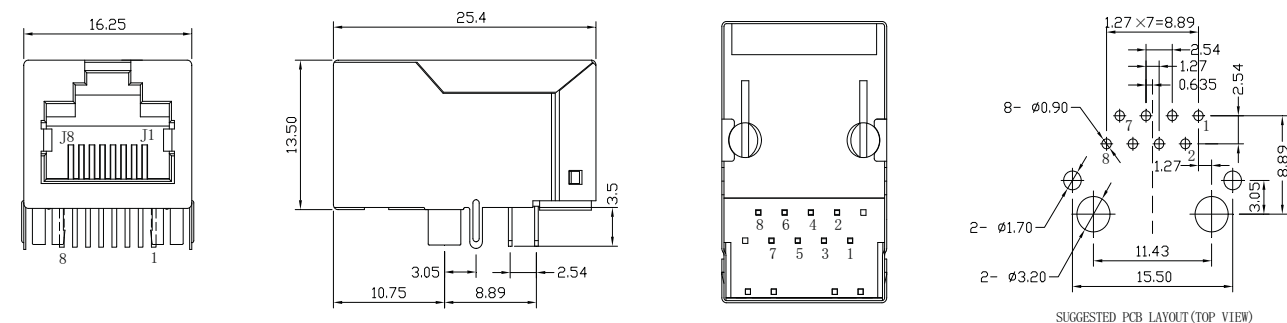
10/100Base-TX RJ45 Connector With Integrated Magnetics (Tab-Up)

Link-PP Int'l Technology

C



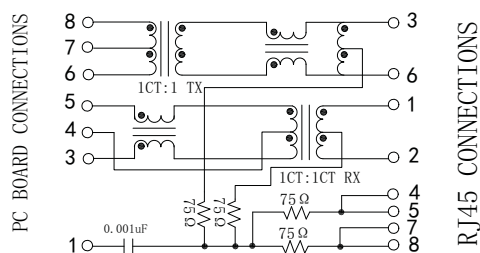
D



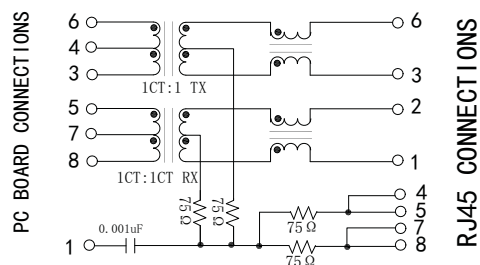
Dimensions: mm
Unless otherwise specified,
all tolerances are ± 0.25

Schematics

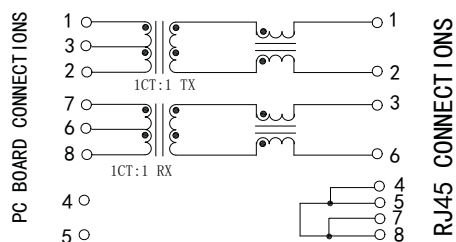
LPJ1001



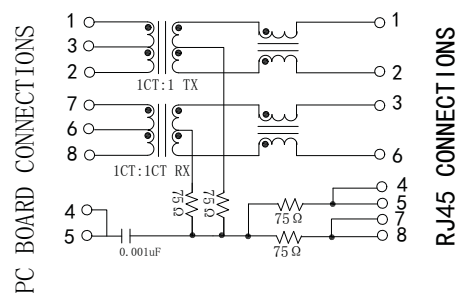
LPJ1002



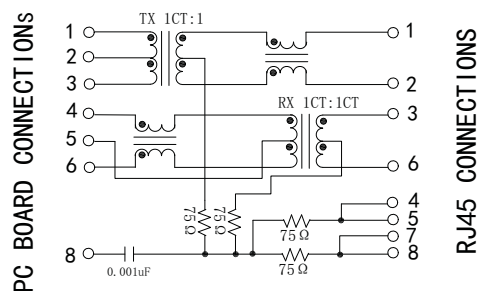
LPJ1006



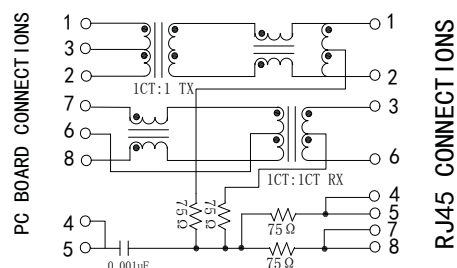
LPJ1011



LPJ1012



LPJ1026



10/100Base-TX RJ45 Connector With Integrated Magnetics(Tab-Up)

Link-PP Int'l Technology

※Designed to support applications, such as SOHO (ADSL Modems), LAN-on-Motherboard (LOM), Hub and Switches.

※1x1 Tab-up RJ45 with internal magnetics

※Available with or without LEDs

※Meets or exceeds IEEE 802.3 standard for 100Base-T

※350uH minimum OCL with 8 mA bias current

※For RoHS part add suffix NL

※RoHS "NL" peak solder rating 235°C



Electrical Specifications @25°C --- Operating Temperature 0°C to +70°C

Part Number	Turns Ratios		Insertion Loss (dB TYP)	Return Loss (dB TYP) 100Ω±15Ω				Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)		Hipot (Vrms) @ 60Hz 1 MIN
	TX	RX		1-65 MHz	1-10 MHz	10-30 MHz	30-60 MHz	60-100 MHz	1-30 MHz	30-60 MHz	60-100 MHz	1-50 MHz	50-150 MHz
LPJ2006	1CT:1	1CT:1	-1	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
LPJ2011	1CT:1CT	1CT:1CT	-1	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
LPJ2013	1CT:1CT	1CT:1CT	-1	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
LPJ2026	1CT:1	1CT:1	-1	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500

NOTE: If these transformers' s operating temperature are -40°C ~ +85°C, to weave "LPJ9XXXXNL".

LPJ XXXX X X NL
 ↳ RoHS
 ↳ LED Table (2)
 ↳ Mechanic (1)
 ↳ Model:Schematic

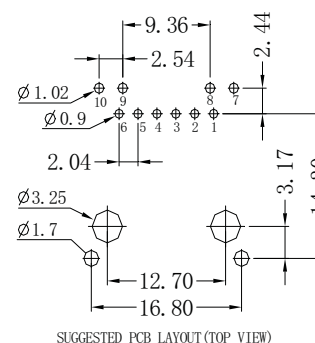
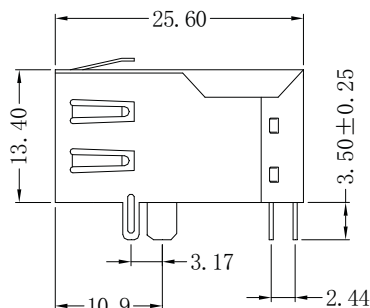
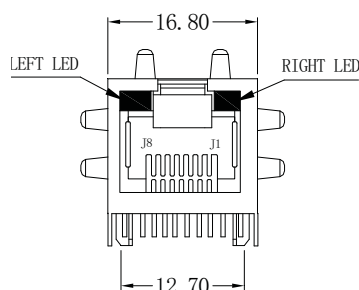
(1)LPJ Series Mechanical:

K	With Led and EMI-Finger(6Pin)
---	-------------------------------

(2)LED Ordering Options:

LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
A	YELLOW	GREEN	7
B	GREEN	YELLOW	8
C	GREEN	GREEN	10
D	YELLOW	GREEN	9
E	GREEN	YELLOW	8
F	GREEN	GREEN	9
G	YELLOW	GREEN	10
H	GREEN	YELLOW	8
			7
			10
O	ORANGE/GREEN	YELLOW	9
			8
			7
			10
S	GREEN	GREEN/ORANGE	8
			7
			10
			9

Mechanicals

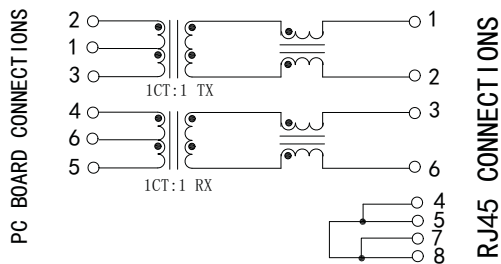


Dimensions: mm
 Unless otherwise specified,
 all tolerances are ±0.25

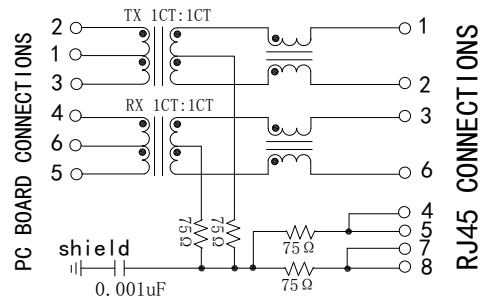
10/100Base-TX RJ45 Connector With Integrated Magnetics (Tab-Up)

Link-PP Int'l Technology

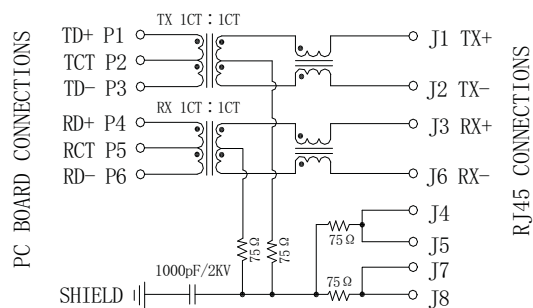
LPJ2006



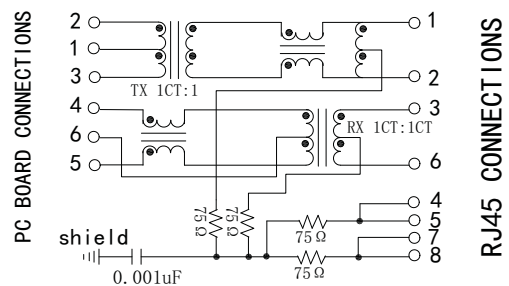
LPJ2011



LPJ2013



LPJ2026



Through Hole Tab-Up RJ45 Jack With 10/100/1000 Magnetic

Link-PP Int'l Technology

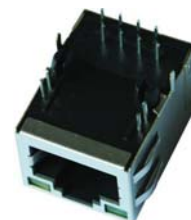
※1X1 Tab-UP,0.85"×1"long with internal magnetics for 10/100/1000 Base-TX

※Internal magnetics options available

※350 μ H minimum OCL with 8 mA bias current

※For RoHS part add suffix NL

※RoHS NL peak solder rating 235°C



Electrical Specifications @25°C --- Operating Temperature 0°C to +70°C

Part Number	Turns Ratios		Insertion Loss (dB TYP)	Return Loss (dB TYP)@100 Ω				Crosstalk MHz (dB TYP)			Differential Common Mode Rejection (dB TYP)			Hipot (Vrms)
	TX	RX		1-30 MHz	40 MHz	50 MHz	60-80 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
LPJG16301	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-35	-32	-30	1500
LPJG16302	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-35	-32	-30	1500
LPJG16304	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-35	-32	-30	1500
LPJG16305	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-35	-32	-30	1500

NOTE: If these transformers' s operating temperature are -40°C~+85°C, to weave "LPJG164XXXXNL".

LPJG XXXX X X NL
 → RoHS
 → LED Table (2)
 → Mechanitic (1)
 → Model:Schematic

(1)LPJG Series Mechanical:

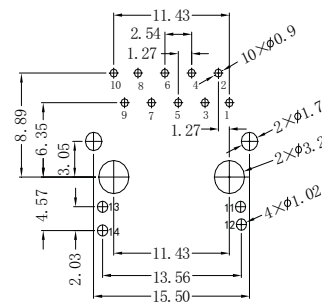
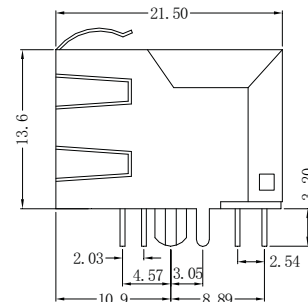
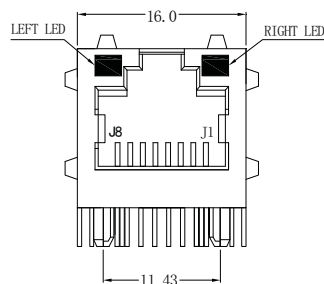
A	With Led EMI-Finger
B	With Led and Non EMI-Finger
C	Without LED, With EMI-Finger
D	Without LED and EMI-Finger

(2)LED Ordering Options:

LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
D	YELLOW	GREEN	11 12
E	GREEN	YELLOW	13 14
F	GREEN	GREEN	11 12
U	GREEN	YELLOW/GREEN	11 12 13 14

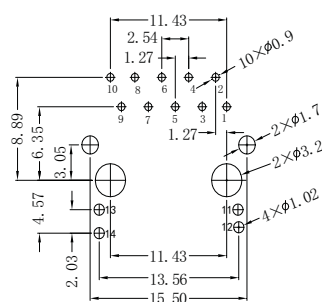
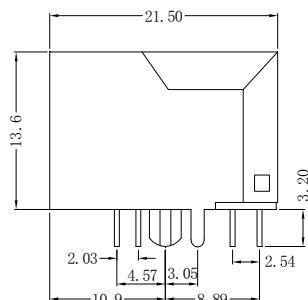
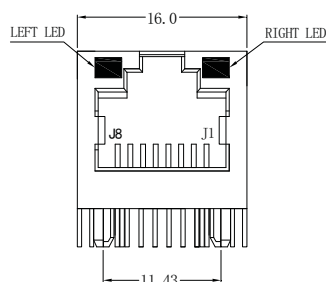
Mechanical

A



Suggested PCB Layout (TOP VIEW)

B

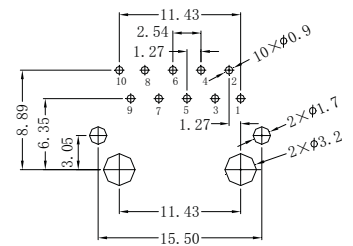
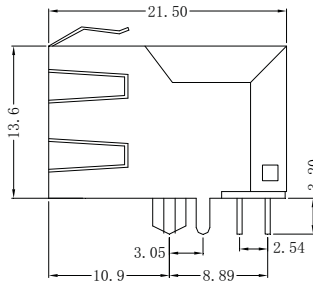
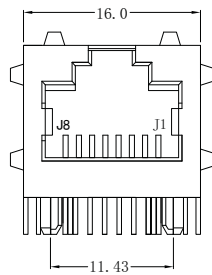


Suggested PCB Layout (TOP VIEW)

Through Hole Tab-Up RJ-45 Jack With 10/100/1000 Magnetic

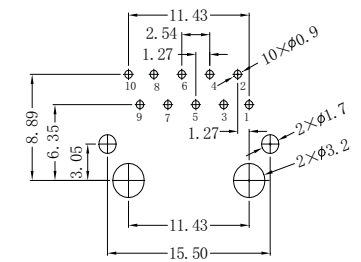
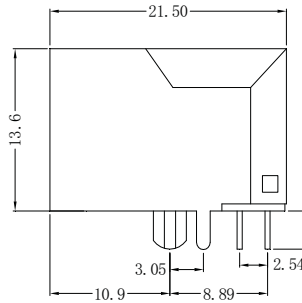
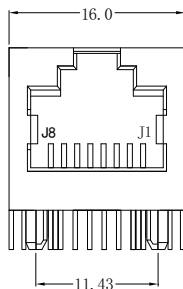
Link-PP Int'l Technology

C



Suggested PCB Layout (TOP VIEW)

D

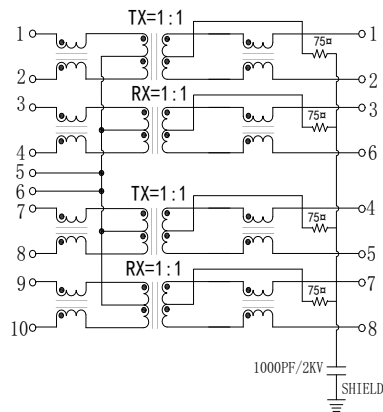


Suggested PCB Layout (TOP VIEW)

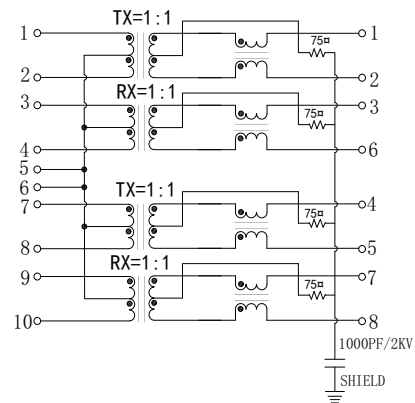
Dimensions: mm
Unless otherwise specified,
all tolerances are ± 0.25

Schematics

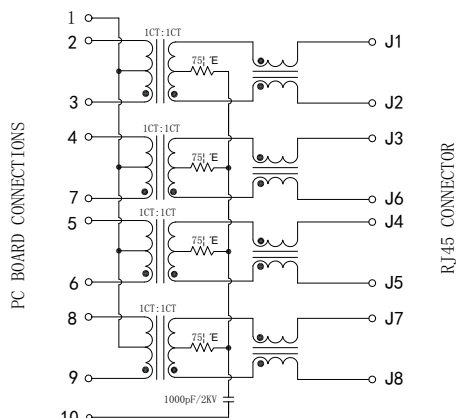
LPJG16301



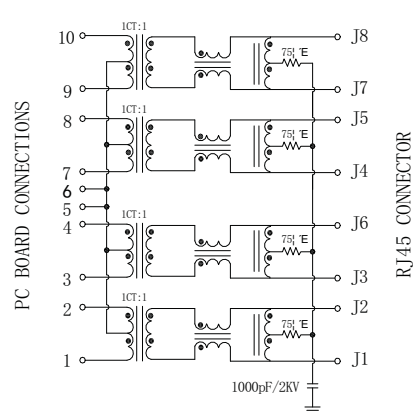
LPJG16302



LPJG16304



LPJG16305



Through Hole Tab-Up RJ45 Jack With 10/100/1000 Magnetic

Link-PP Int'l Technology

※1X1 Tab-UP,0.85"×1"long with internal magnetics for 10/100/1000 Base-TX

※Internal magnetics options available

※350 μ H minimum OCL with 8 mA bias current

※For RoHS part add suffix NL

※RoHS NL peak solder rating 235°C



Electrical Specifications @25°C --- Operating Temperature 0°C to +70°C

Part Number	Turns Ratios		Insertion Loss (dB TYP)	Return Loss (dB TYP)@100 Ω				Crosstalk MHz (dB TYP)			Differential Common Mode Rejection (dB TYP)			Hipot (Vrms)
	TX	RX		1-30 MHz	40 MHz	50 MHz	60-80 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
LPJG17302	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-35	-32	-30	1500
LPJG17305	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-35	-32	-30	1500
LPJG17306	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-35	-32	-30	1500
LPJG17333	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-35	-32	-30	1500

NOTE: If these transformers' s operating temperature are -40°C~+85°C, to weave "LPJG174XXXXNL".

LPJG XXXX X X NL

→RoHS

→LED Table (2)

→Mechanitic (1)

→Model:Schematic

(1)LPJG Series Mechanical:

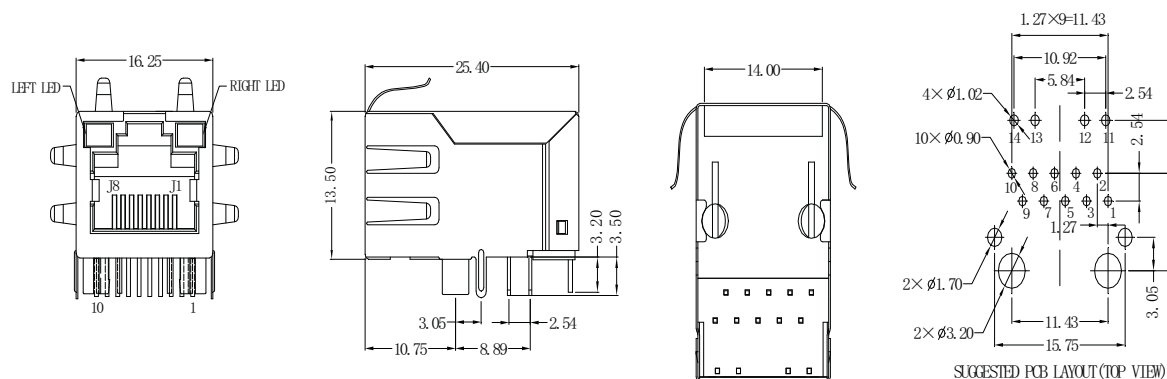
A	With Led EMI-Finger
B	With Led and Non EMI-Finger
C	Without LED, With EMI-Finger
D	Without LED and EMI-Finger

(1)LED Ordering Options:

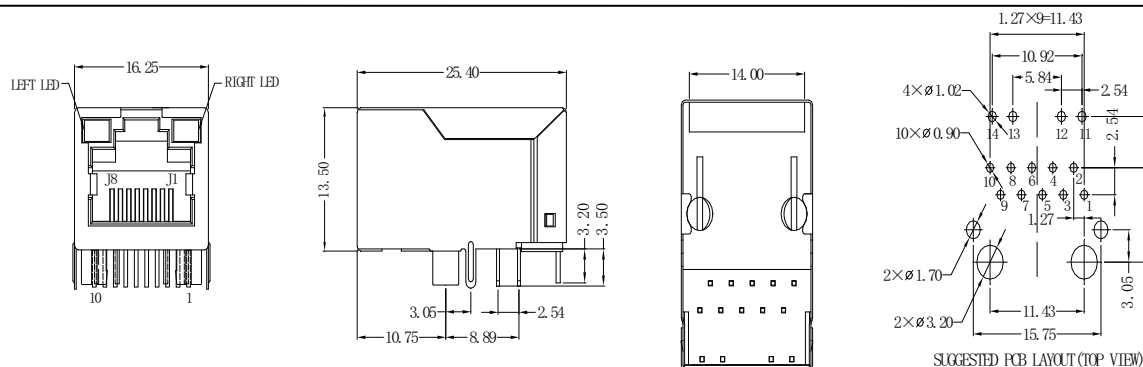
LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
D	YELLOW	GREEN	11 12
E	GREEN	YELLOW	13 14
F	GREEN	GREEN	14
G	YELLOW	GREEN	12 11
H	GREEN	YELLOW	11 14
W	GREEN	GREEN	13
U	GREEN	YELLOW/GREEN	11 12 13 14

Mechanical

A



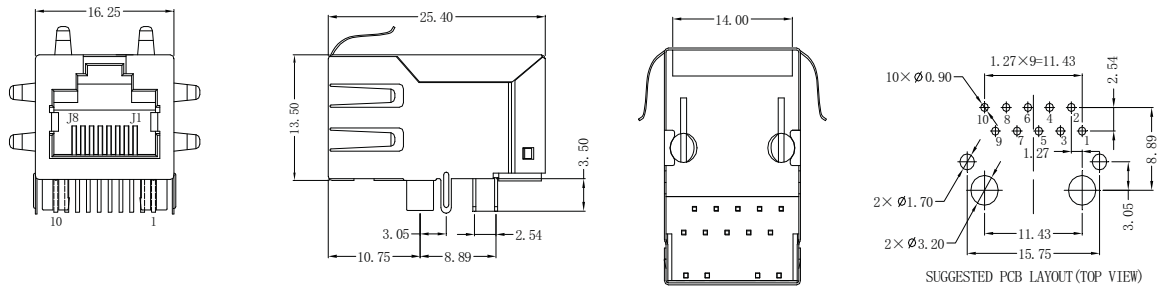
B



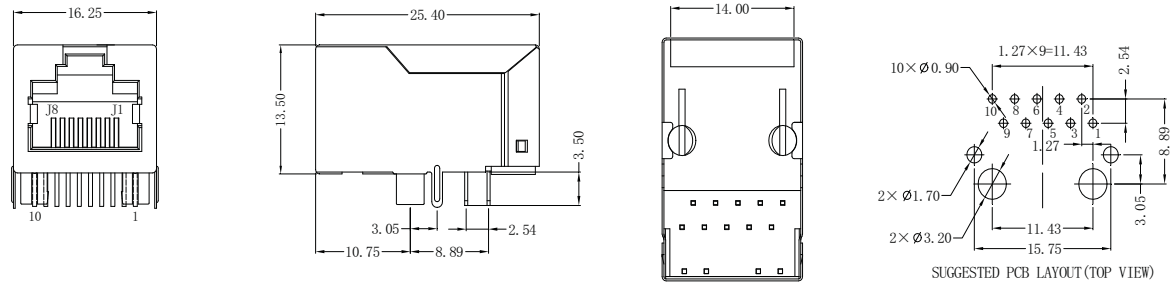
Through Hole Tab-Up RJ-45 Jack With 10/100/1000 Magnetic

Link-PP Int'l Technology

C



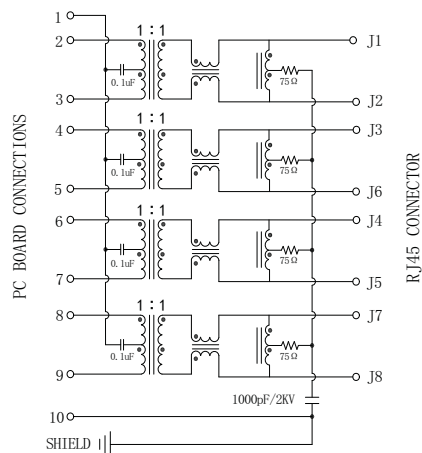
D



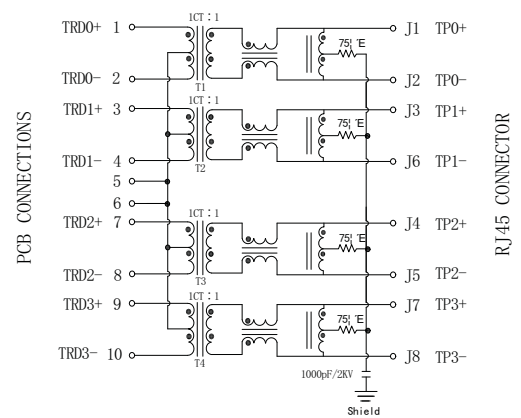
Dimensions: mm
Unless otherwise specified,
all tolerances are ± 0.25

Schematics

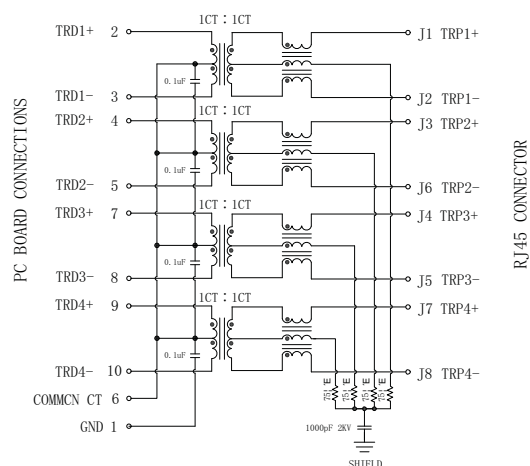
LPJG17302



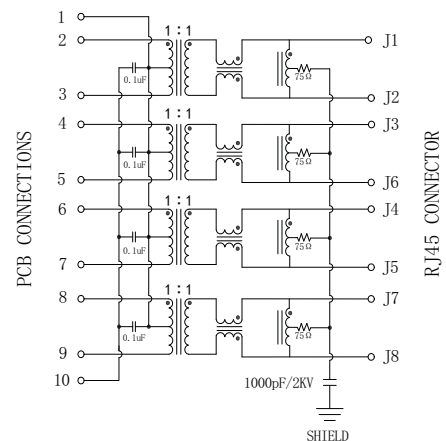
LPJG17305



LPJG17306



LPJG17333



10/100/1000 Base-T RJ45 Connector With Integrated Magnetics(Tab-UP)

Link-PP Int'l Technology

※Designed to support Network Interface Cards(NIC), LAN-on-Motherboard (LOM),
And PC applications.

※1x1 Tab-UP RJ45 with internal magnetics

※Available with or without LEDs

※Meets or exceeds IEEE 802.3 standard for 10/100/1000 Base-T

※350uH minimum OCL with 8 mA bias current

※For RoHS part add suffix NL

※RoHS “NL” peak solder rating 235°C



Electrical Specifications @25°C --- Operating Temperature 0°C to +70°C

Part Number	Turns Ratios		Insertion Loss (dB MAX)	Return Loss (dB MIN) 100Ω±15Ω				Crosstalk (dB MIN)			Common Mode Rejection (dB MIN)		Hipot (Vrms) @ 60Hz 1 MIN
	TX	RX		1-100MHz	1-10 MHz	10-30 MHz	30-60 MHz	60-100 MHz	1-30 MHz	30-60 MHz	60-100 MHz	1- 125 MHz	125-500 MHz
LPJK0025	1CT:1CT	1CT:1CT	-1	-20	-16	-12	-10	-40	-35	-30	-26	-20	1500
LPJK0043	1CT:1CT	1CT:1CT	-1	-20	-16	-12	-10	-40	-35	-30	-26	-20	1500
LPJK0036	1CT:1CT	1CT:1CT	-1	-20	-16	-12	-10	-40	-35	-30	-26	-20	1500
LPJK0071	1CT:1	1CT:1	-1	-20	-16	-12	-10	-40	-35	-30	-26	-20	1500

NOTES: If these transformers' s operating temperature are -40°C~+85°C, to weave “LPJK4XXXXNL”.

LPJK XXXX X X NL

→ RoHS

→ LED Table (2)

→ Mechanitic (1)

→ Model:Schematic

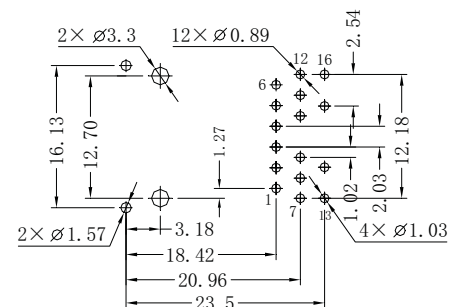
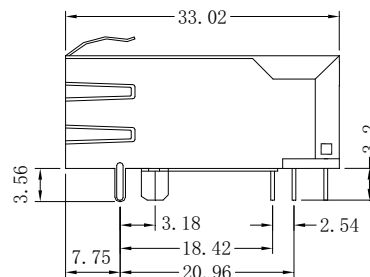
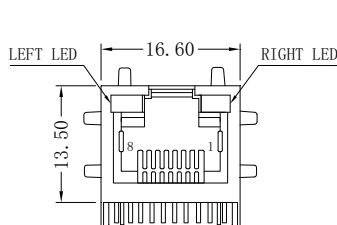
(1)LPJK Series Mechanical:

A	With Led EMI-Finger
B	With Led and Non EMI-Finger
C	Without LED, With EMI-Finger
D	Without LED and EMI-Finger

(2)LED Ordering Options:

LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
G	YELLOW	GREEN	14 ○
H	GREEN	YELLOW	13 ○
W	GREEN	GREEN	16 ○
I	YELLOW/GREEN	GREEN	14 ○ 13 ○ 16 ○
O	ORANGE/GREEN	YELLOW	14 ○ 13 ○ 16 ○

Mechanical

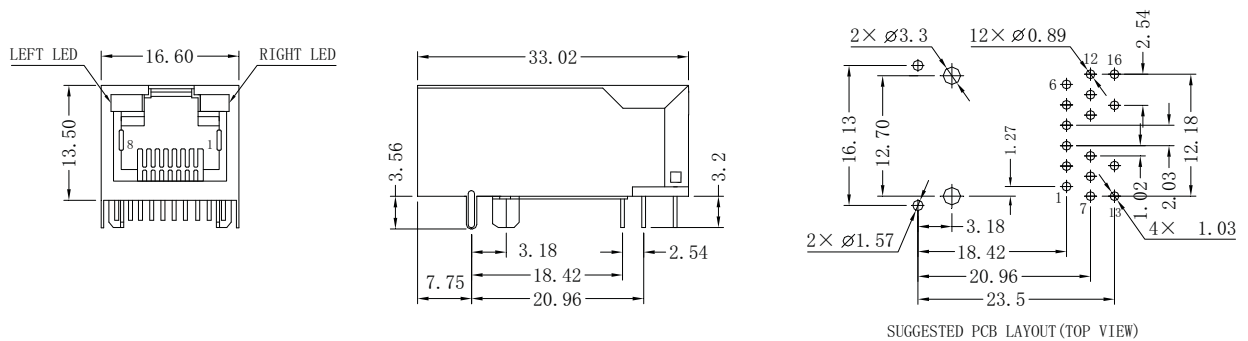


SUGGESTED PCB LAYOUT (TOP VIEW)

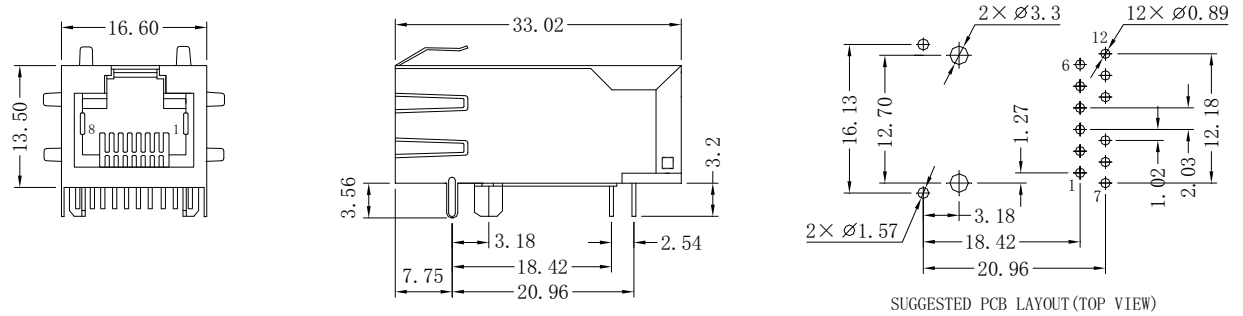
10/100/1000Base-TX RJ45 Connector With Integrated Magnetics(Tab-UP)

Link-PP Int'l Technology

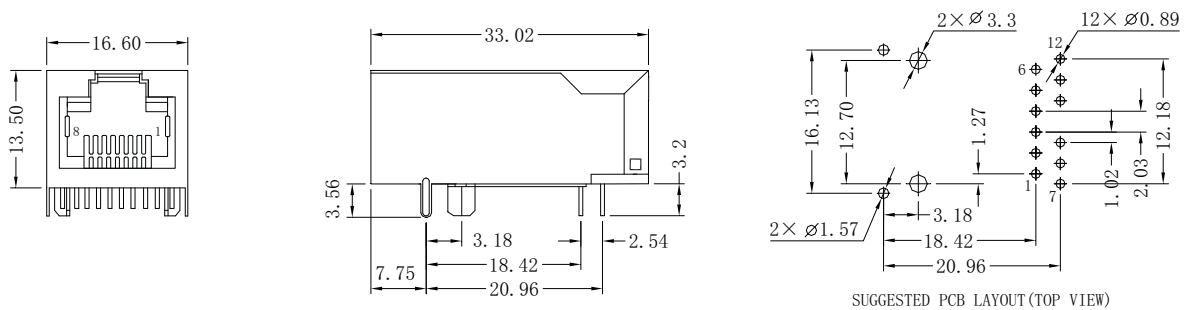
B



C



D

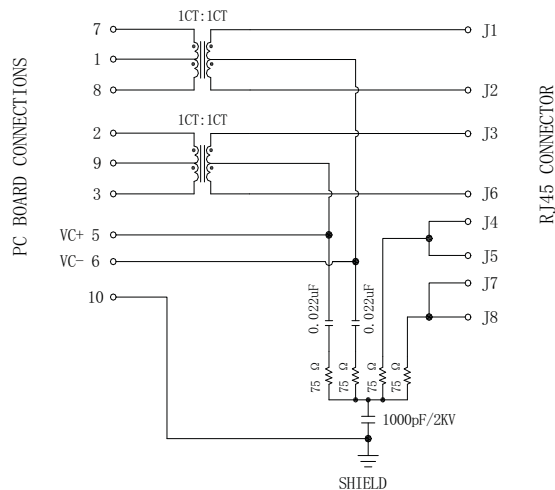


10/100/1000 Base-TX RJ45 Connector With Integrated Magnetics (Tab-UP)

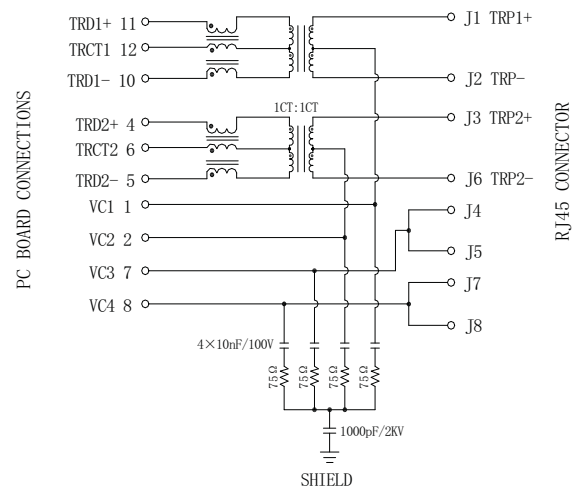
Link-PP Int'l Technology

Schematic

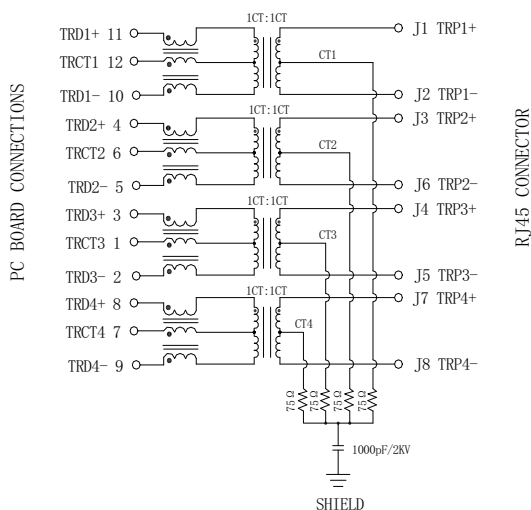
LPJK0025



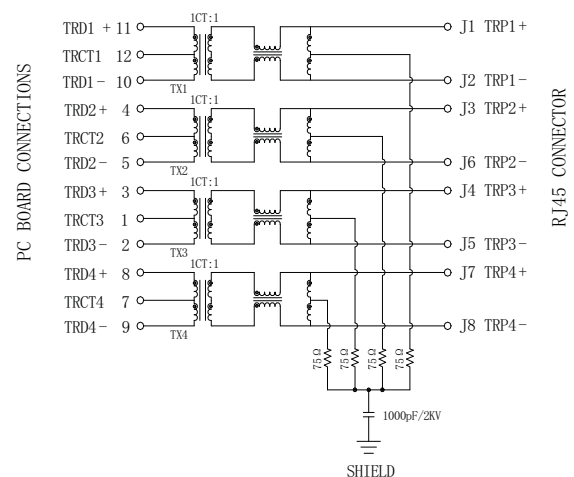
LPJK0043



LPJK0036



LPJK0071



Surface Mount 1×1 Tab-Up RJ45 Jack With 10/100 Magnetics

Link-PP Int'l Technology

※Available in Tape & Reel format

※SMT product available with or without LEDs

※Internal magnetics:100% electrically tested for HI-POT & continuity

※For RoHS part add suffix NL*

※RoHS NL peak solder rating 235℃



Electrical Specifications @ 25℃ --- Operating Temperature 0℃ to 70℃

Part Number	Turns Ratio		Insertion Loss (dB MAX)		Return Loss (dB MIN @ 100 Ω)		Crosstalk (dB MIN)	Hipot (Vrms MIN)
	TX	RX	1-80MHz	100MHz	1-60 MHz	60-100 MHz	1-80MHz	
LPJ19201	1CT:1	1CT:1	-1.0	-1.2	-14	-10	-35	1500
LPJ19206	1CT:1CT	1CT:1CT	-1.0	-1.0	-14	-10	-35	1500
LPJ19213	1CT:1CT	1CT:1CT	-1.0	-1.2	-14	-10	-35	1500
LPJ19225	1CT:1	1CT:1CT	-1.0	-1.2	-14	-10	-35	1500

*.NOTES: If these transformers' s operating temperature are -40℃~+85℃, to weave "LPJ194XXXXNL".

LPJ XXXX X X NL

→ RoHS

→ LED Table (2)

→ Mechanitic (1)

→ Model:Schematic

(2)LED Ordering Options:

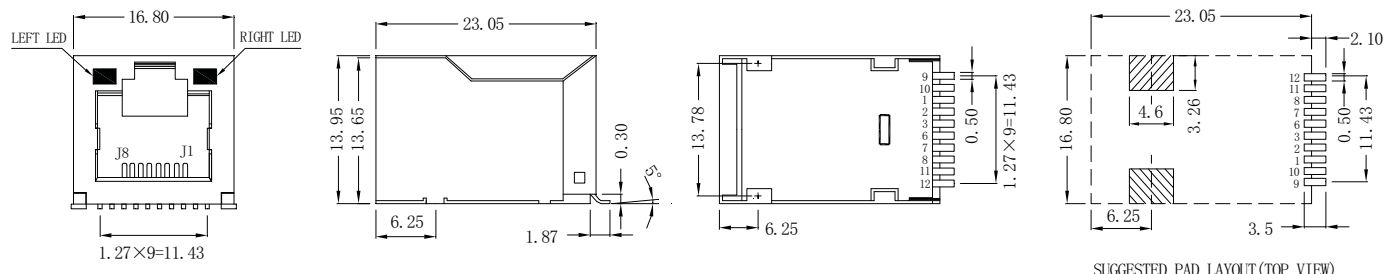
LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
A	YELLOW	GREEN	9 ♂ →
B	GREEN	YELLOW	10 ♂ →
C	GREEN	GREEN	12 ♂ →
D	YELLOW	GREEN	9 ♂ →
E	GREEN	YELLOW	10 ♂ →
F	GREEN	GREEN	12 ♂ →
G	YELLOW	GREEN	10 ♂ →
H	GREEN	YELLOW	9 ♂ →
W	GREEN	GREEN	12 ♂ →

(1)LPJ Series Mechanical:

B	With Led and Non EMI-Finger
D	Without LED and EMI-Finger

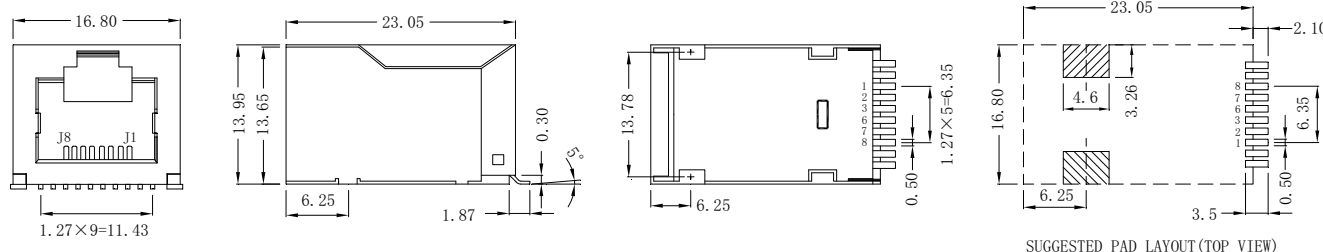
Mechanical

B



SUGGESTED PAD LAYOUT (TOP VIEW)

D



SUGGESTED PAD LAYOUT (TOP VIEW)

Dimensions: mm

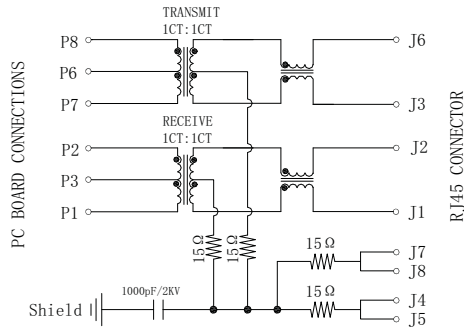
Unless otherwise specified,
all tolerances are ±0.25

Surface Mount 1×1 Tab-Up RJ45 Jack With 10/100 Magnetics

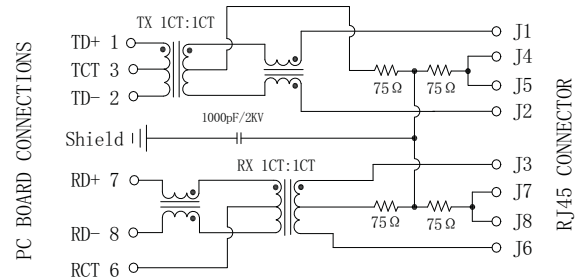
Link-PP Int'l Technology

Schematics

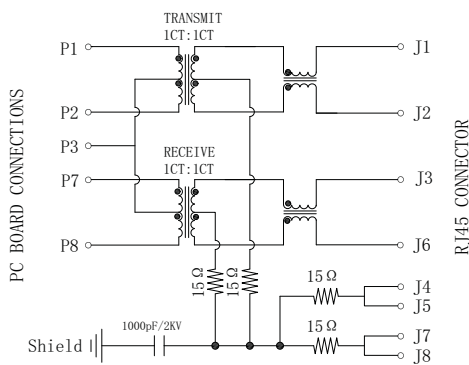
LPJ19201



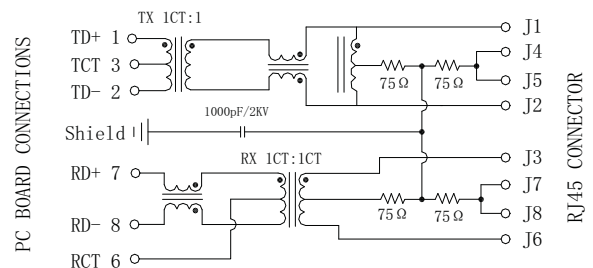
LPJ19206



LPJ19213



LPJ19225



Vertical RJ45 Connector With 10/100 Base-TX Magnetic

Link-PP Int'l Technology

※Meets IEEE 802.3 and ANSI X3.263 standards, including 350 μ H OCL with 8 mA bias

※Designed for reflow soldering at temperature $230 \pm 5^\circ\text{C}$

※Compact footprint for use in the most space restrictive applications

※For RoHS part add suffix NL

※RoHS "NL" peak solder rating 235°C



Electrical Specifications @ 25°C ---Operating Temperature 0°C to 70°C

Part Number	Turns Ratio (0.1MHz/0.1V)		Insertion Loss (dB MAX)	Return Loss (dB MIN)				Cross Talk (dB MIN)			CMR (dB MIN)		Hipo t (Vrms)
	TX	RX		1-10 MHz	10-30 MHz	30-60 MHz	60-100 MHz	1-30 MHz	30-60 MHz	60-100 MHz	1-50 MHz	50-150 MHz	
LPJD0011	1CT:1CT	1CT:1CT	-1.0	-18	-18	-12	-10	-40	-35	-30	-30	-20	1500
LPJD0012	1CT:1CT	1CT:1CT	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
LPJD0017	1CT:1CT	1CT:1CT	-1.0	-18	-18	-12	-10	-45	-40	-35	-30	-20	1500
LPJD0026	1CT:1	1CT:1CT	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
LPJD0078	1CT:1	1CT:1CT	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
LPJD0115	1CT:1	1CT:1	-1.0	-20	-20	-15	-10	-30	-30	-30	-30	-20	1500

NOTE: If these transformers' s operating temperature are $-40^\circ\text{C} \sim +85^\circ\text{C}$, to weave "LPJD4XXXXXNL".

LPJD XXXX X X NL

RoHS

LED Table (2)

Mechanitic (1)

Model:Schematic

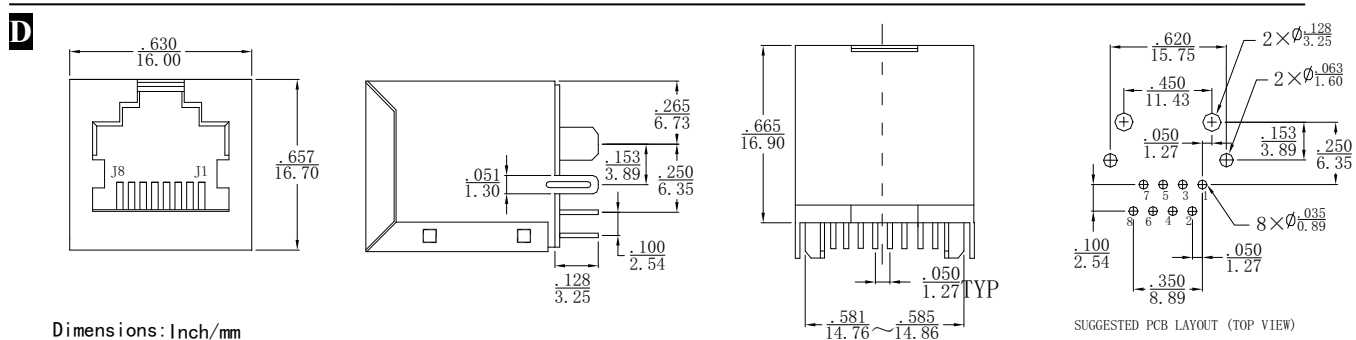
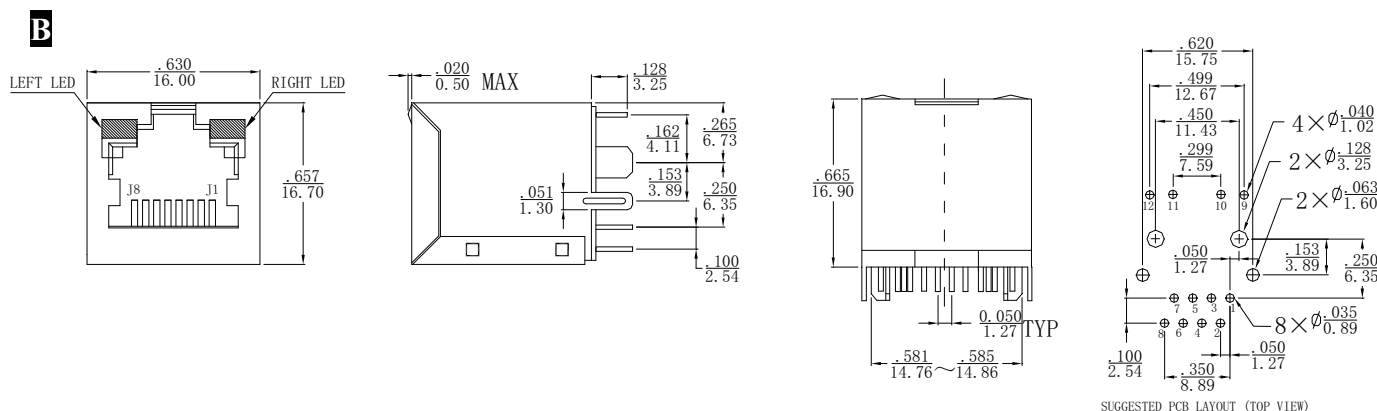
(1)LPJD Series Mechanical:

B	With Led and Non EMI-Finger
D	Without LED and EMI-Finger

(2)LED Ordering Options:

LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
G	YELLOW	GREEN	10 $\rightarrow$ $\rightarrow$
H	GREEN	YELLOW	9 $\rightarrow$ $\rightarrow$
W	GREEN	GREEN	12 $\rightarrow$ $\rightarrow$
			11 $\rightarrow$ $\rightarrow$

Mechanical



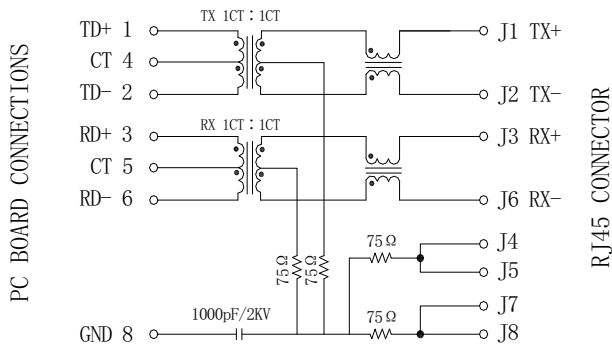
Dimensions:Inch/mm
Unless otherwise specified,
all tolerances are $\pm 0.010/0, 25$

Vertical RJ45 Connector With 10/100 Base-TX Magnetic

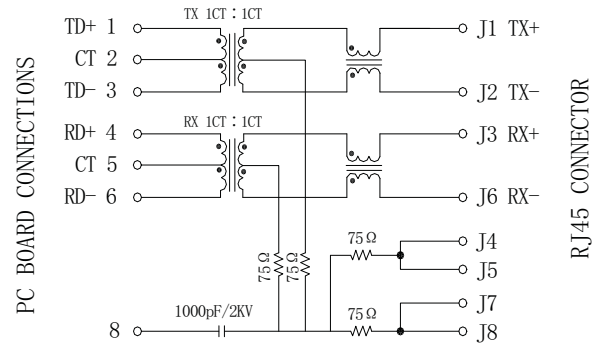
Link-PP Int'l Technology

Schematic

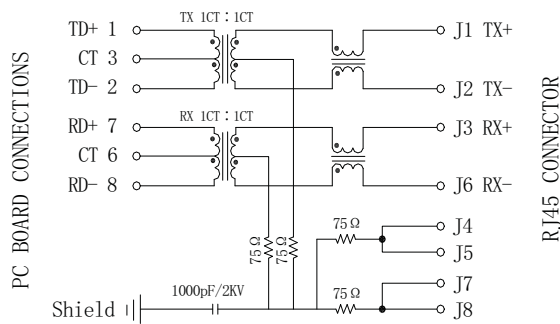
LPJD0011



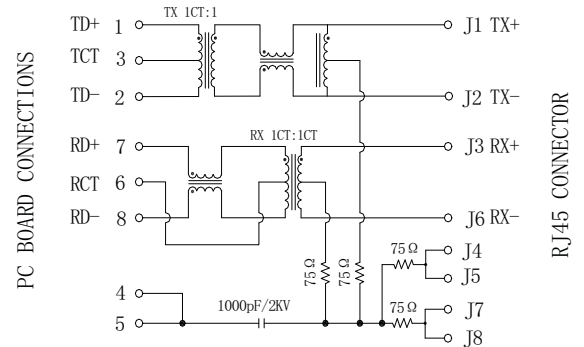
LPJD0012



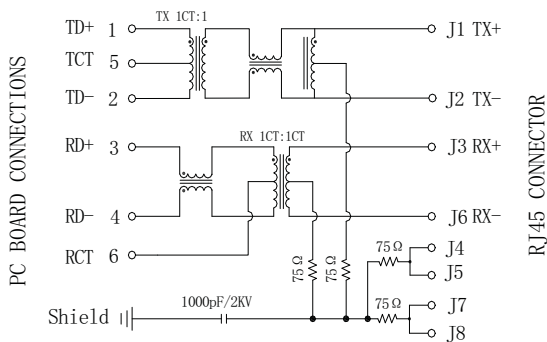
LPJD0017



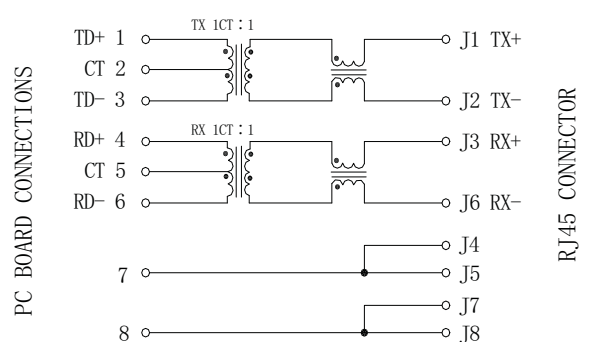
LPJD0026



LPJD0078



LPJD0115



RJ45 10/100 Base-TX Jack/Single USB Combo

Link-PP Int'l Technology

- ※Lan interface suitable for 10/100 Base-TX applications.
- ※RJ45/USB stacked design saves on PCB real estate
- ※USB module complies with USB 2.0 standards and meets CAT FAST Ethernet industry performance standard
- ※Meets or exceeds IEEE 802.3 and ANSI X3.263 standards including 350uH minimum OCL with 8 mA bias current
- ※For RoHS part add suffix NL
- ※RoHS “NL” peak solder rating 235°C



Electrical Specifications @25°C --- Operating Temperature 0°C to +70°C

Part Number	Turns Ratios		Insertion Loss (dB MAX)	Return Loss (dB MIN)					Crosstalk (dB MIN)			Common Mode Rejection (dB MIN)		Hipot (Vrms)
	TX	RX		1-100MHz	1-10 MHz	10-30 MHz	30-60 MHz	60-80 MHz	1-30 MHz	30-60 MHz	60-100 MHz	1-50 MHz	50-150 MHz	
LPJU3101	1CT:1CT	1CT:1CT	-1	-20	-16	-12	-10	-40	-35	-30	-30	-30	-20	1500
LPJU3102	1CT:1CT	1CT:1CT	-1	-20	-16	-12	-10	-40	-35	-30	-30	-30	-20	1500

NOTES: If these transformers' s operating temperature are -40°C ~ +85°C, to weave “LPJU34XXXXNL”.

LPJU XXXX X X NL

- RoHS
- LED Table (2)
- Mechanitic (1)
- Model:Schematic

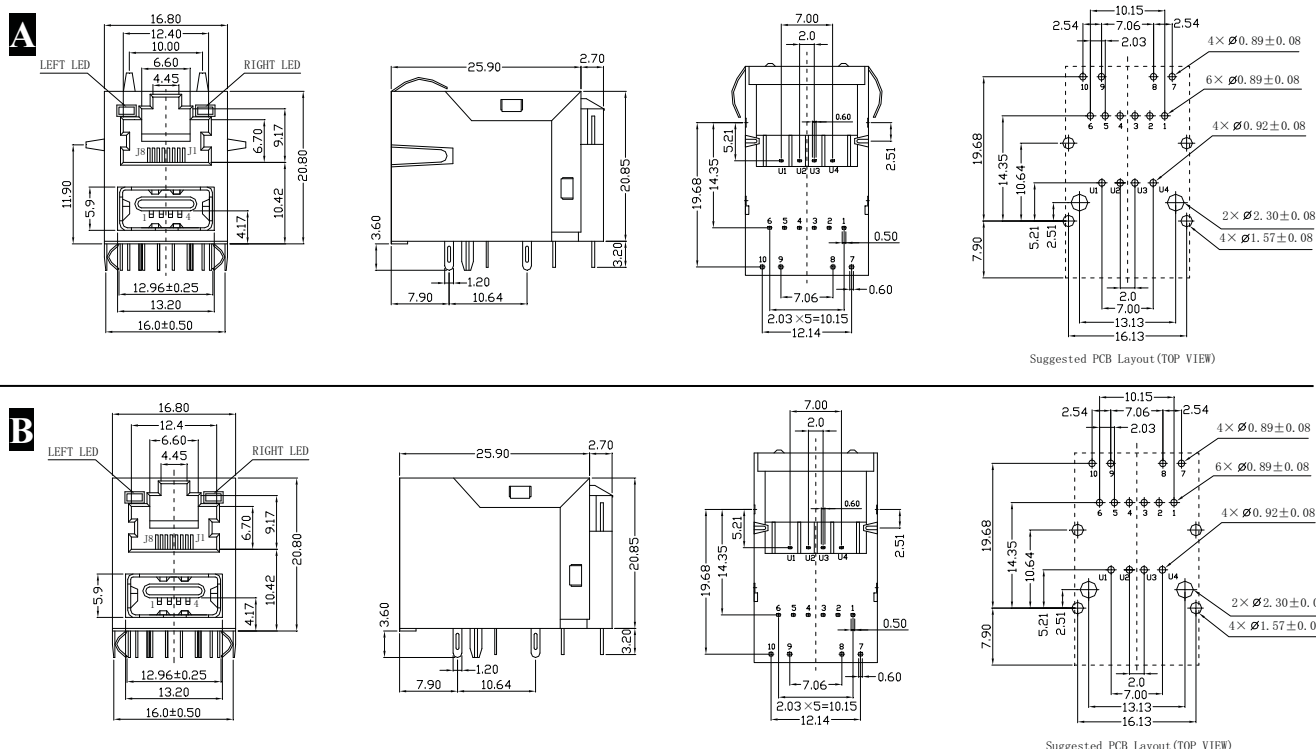
(2)LED Ordering Options:

LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
A	YELLOW	GREEN	7
B	GREEN	YELLOW	8
C	GREEN	GREEN	10
D	YELLOW	GREEN	9
E	GREEN	YELLOW	8
F	GREEN	GREEN	10
G	YELLOW	GREEN	8
H	GREEN	YELLOW	7
W	GREEN	GREEN	10

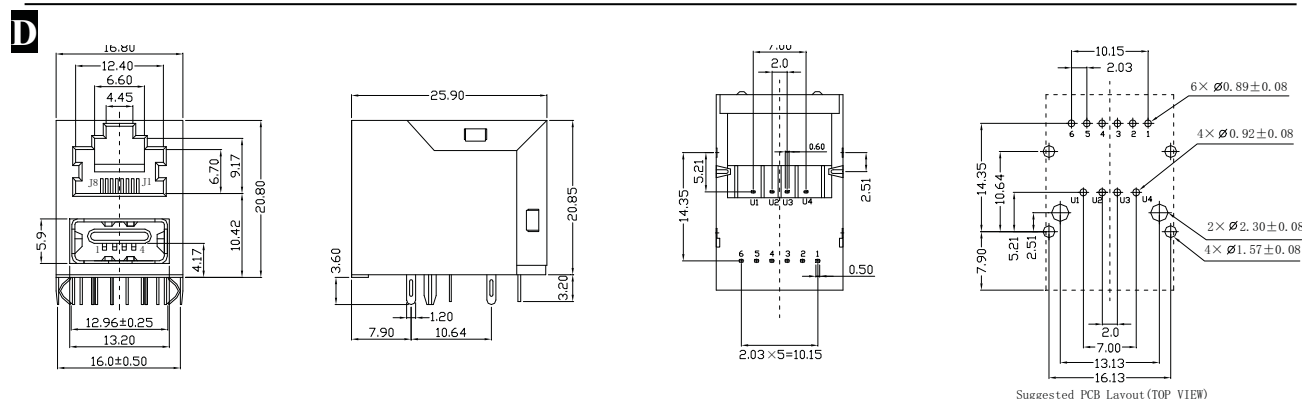
(1)LPJU Series Mechanical:

A	With Led EMI-Finger
B	With Led and Non EMI-Finger
C	Without LED, With EMI-Finger
D	Without LED and EMI-Finger

Mechanicals



Link-PP Int'l Technology



Schematics

[illegible]

Through Hole RJ45/Dual USB Jack With 10/100 Magnetics

Link-PP Int'l Technology

※Lan interface suitable for 10/100 Base-TX applications

※RJ45/USB stacked design saves on PCB real estate

※USB module complies with USB 2.0 standards and meets CAT FAST Ethernet indusLPy performance

※Meets or exceeds IEEE 802.3 and ANSI X 3.263 standards including 350uH min OCL with 8mA bias



Electrical Specifications @25°C --- Operating Temperature 0°C to +70°C

Part Number	Turns Ratios		Insertion Loss (dB TYP)	Return Loss(dB TYP)@100Ω			Crosstalk (dB TYP)			CMR(dB TYP)	
	TX	RX		1-65MHz	1-10MHz	30MHz	60-80MHz	1-10MHz	30-60MHz	60-100MHz	1-50MHz
LPJU4101	1CT:1	1CT:1CT	-1.0	-20	-16	-12	-40	-35	-30	-30	-20
LPJU4111	1CT:1CT	1CT:1CT	-1.0	-18	-18	-12	-35	-35	-35	-35	-20

NOTE: If these LPansformers' s operating temperature are -40°C~+85°C, to weave "LPJU44XXXXNL"

LPJU XXXX X X NL

- RoHS
- LED Table (2)
- Mechanic (1)
- Model:Schematic

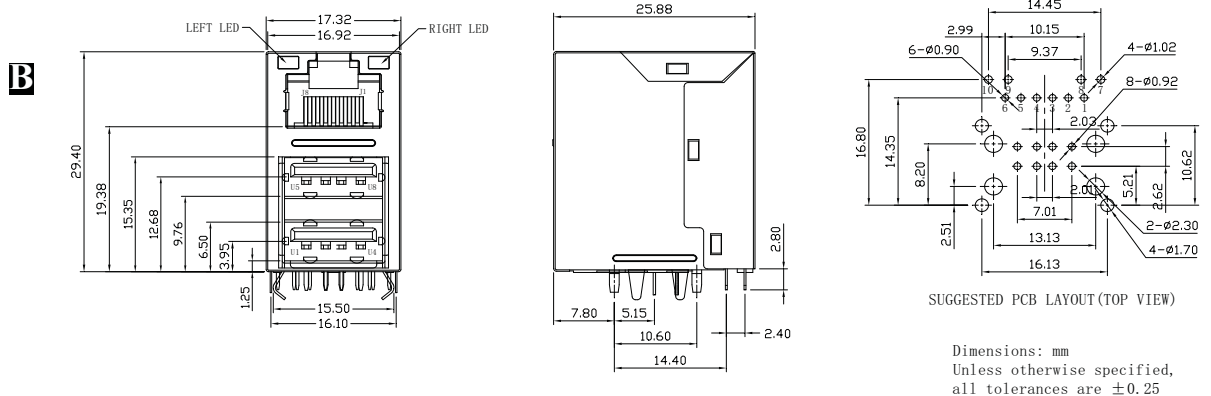
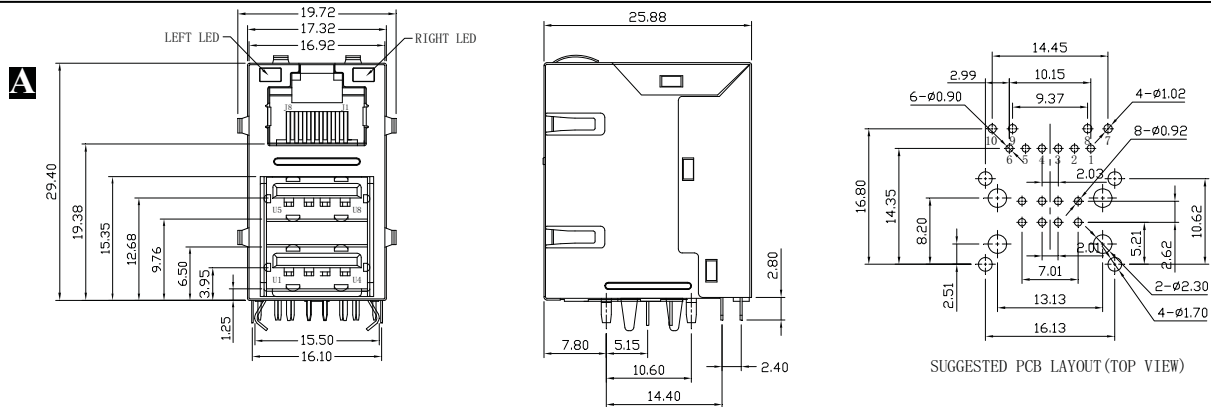
(1)LPJU Series Mechanical:

A	With Led EMI-Finger
B	With Led and Non EMI-Finger
C	Without LED, With EMI-Finger
D	Without LED and EMI-Finger

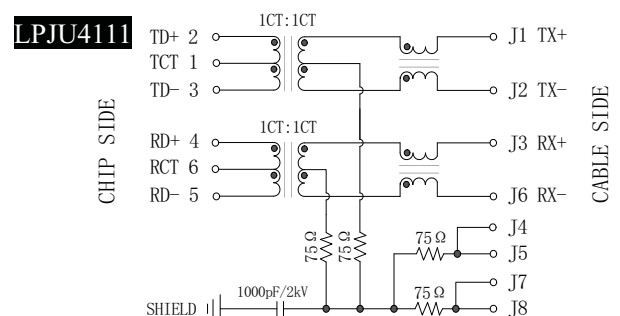
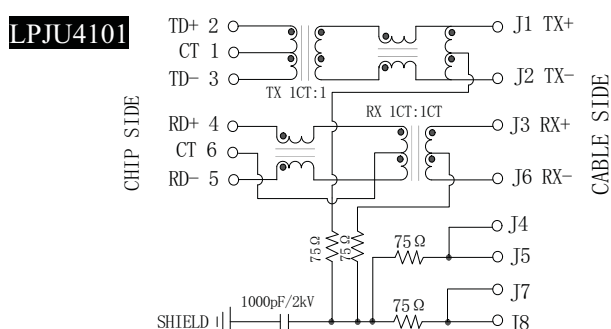
(2)LED Ordering Options:

LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
0	ORANGE/GREEN	YELLOW	8
			7
			10
			9

Mechanical



Schematics



Through Hole RJ45/Dual USB Jack With 10/100/1000 Magnetics

Link-PP Int'l Technology

- ※Lan interface suitable for 10/100 Base-TX applications
- ※RJ45/USB stacked design saves on PCB real estate
- ※USB module complies with USB 2.0 standards and meets CAT FAST Ethernet industry performance
- ※Meets or exceeds IEEE 802.3 and ANSI X 3.263 standards including 350uH min OCL with 8mA b
- ※Hipot : 1500Vrms
- ※For RoHS part add suffix NL
- ※RoHS “NL” peak solder rating 235°C



Electrical Specifications @25°C --- Operating Temperature 0°C to +70°C

Part Number	Turns Ratios		Insertion Loss (dB MAX)		Return Loss(dB MIN)@100Ω				Crosstalk (dB MIN)		CMR(dB MIN)	
	TX	RX	100KHz	1-125MHz	1-30MHz	30-60MHz	60-80MHz	80-100MHz	1MHz	10-100MHz	2MHz	30-100MHz
LPJU4201	1:1	1:1	-1.2	-1.0	-18	-16	-12	-10	-50	-30	-50	-20
LPJU4202	1:1	1:1	-1.2	-1.2	-18	-16	-12	-10	-25	-25	-30	-30

NOTE: If these transformers' s operating temperature are -40°C~+85°C, to weave “LPJU46XXXXNL” .

LPJU XXXX X X NL

- RoHS
- LED Table (2)
- Mechanic (1)
- Model:Schematic

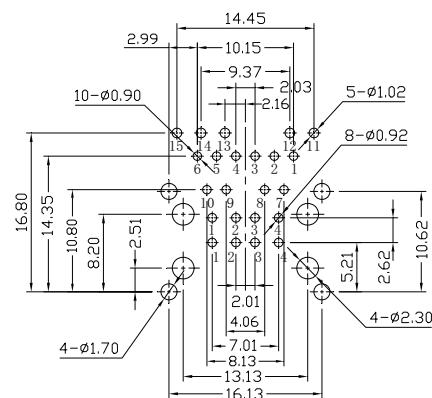
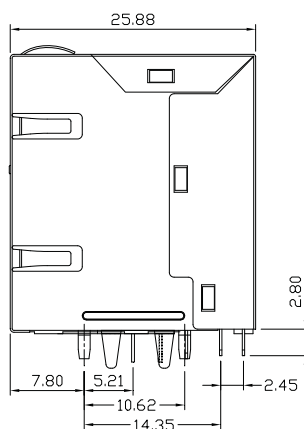
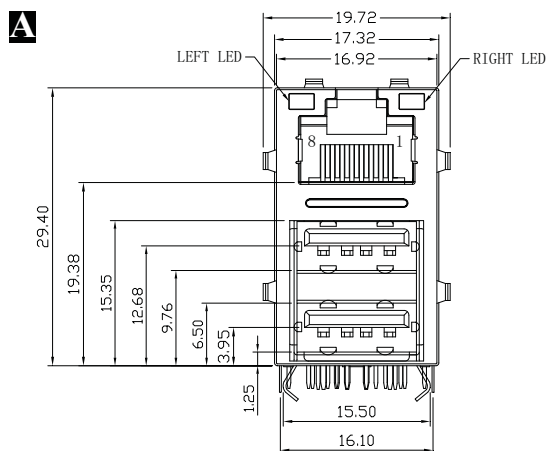
(1)LPJU Series Mechanical:

A	With Led EMI-Finger
B	With Led and Non EMI-Finger
C	Without LED, With EMI-Finger
D	Without LED and EMI-Finger

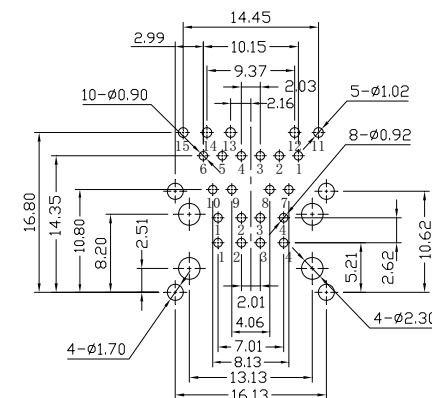
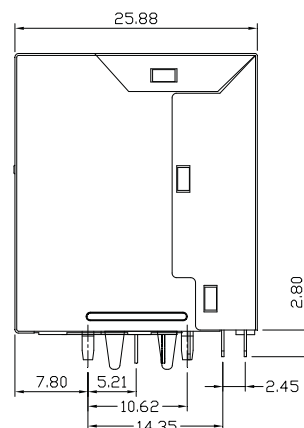
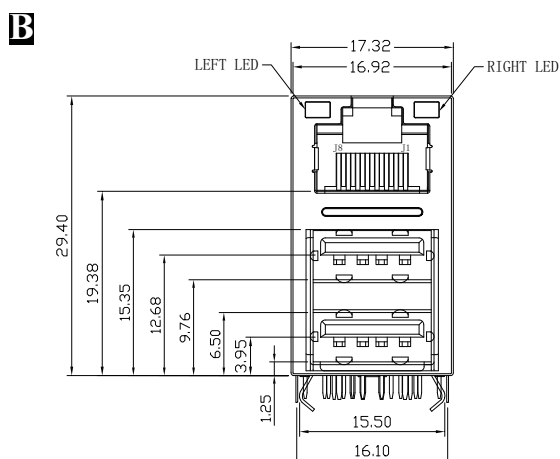
(2) LED Ordering Options

LED	LED COLOR		LED POLARITY
	LEFT	RIGHT	
64	GREEN/ ORANGE	YELLOW	15 COMMON
			14 ORANGE
			13 GREEN
			12 YELLOW
			11

Mechanical



SUGGESTED PCB LAYOUT (TOP VIEW)



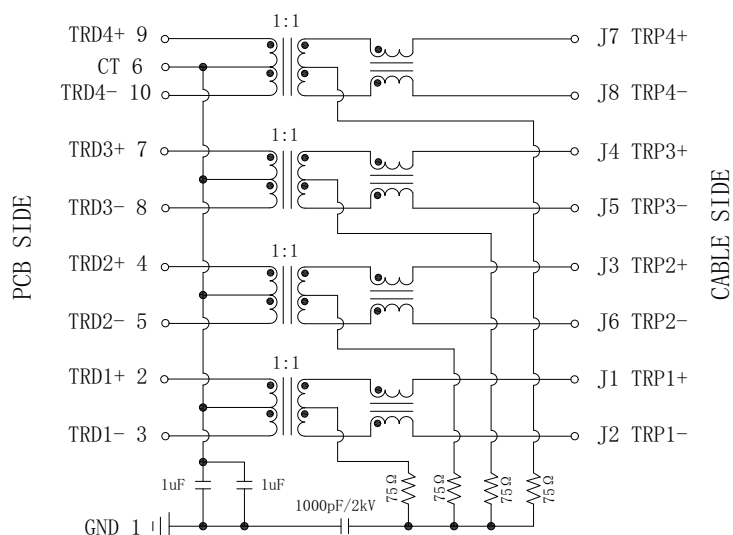
SUGGESTED PCB LAYOUT (TOP VIEW)

Through Hole RJ45/Dual USB Jack With 10/100/1000 Magnetics

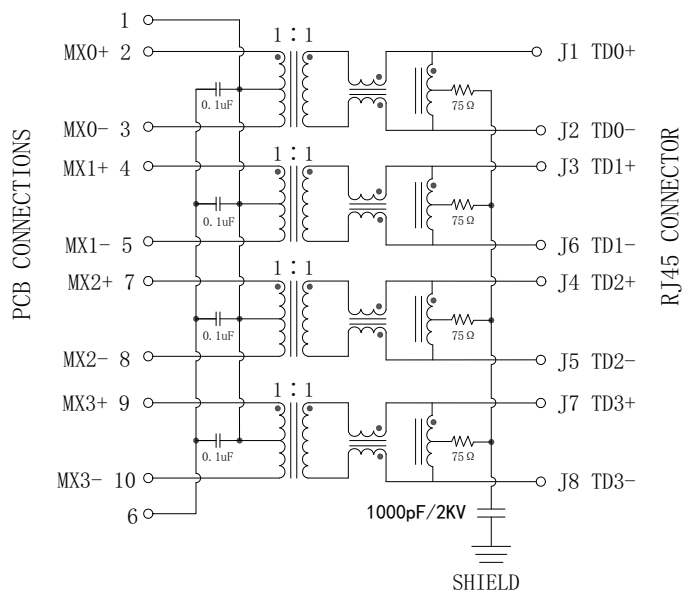
Link-PP Int'l Technology

Schematics

LPJU4201



LPJU4202



RJ45 10/100 Base-TX Jack/Dual USB Combo

Link-PP Int'l Technology

※Lan interface suitable for 10/100 Base-TX applications

※RJ45/USB stacked design saves on PCB real estate

※USB module complies with USB 2.0 standards and meets

CAT FAST Ethernet industry performance standard

※Meets or exceeds IEEE 802.3 and ANSI X 3.263 standards including 350uH min OCL with 8mA bias



Electrical Specifications @25°C --- Operating Temperature 0°C to +70°C

Part Number	Turns Ratios		Insertion Loss (dB TYP)	Return Loss (dB TYP)@100 Ω				Crosstalk (dB TYP)			CMR (dB TYP)		Hipot (Vrms)
	TX	RX		1-100MHZ	1-30MHZ	30-60MHZ	60-80 MHZ	1-10 MHZ	30-60 MHZ	60-100 MHZ	1-50 MHZ	50-150 MHZ	
LPJU5102B	1:1	1:1	-1.0	-18	-16	-12	-40	-35	-30	-30	-20	-20	1500
LPJU5103B	1:1	1:1	-1.0	-18	-16	-12	-40	-35	-30	-30	-20	-20	1500
LPJU5104B	1:1	1:1	-1.0	-18	-16	-12	-40	-35	-30	-30	-20	-20	1500
LPJU5114B	1:1	1:1	-1.0	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
LPJU5121B	1:1	1:1	-1.0	-20	-17	-15	-40	-35	-30	-30	-20	-20	1500
LPJU5183B	1:1	1:1	-1.0	-18	-16	-12	-40	-35	-30	-30	-20	-20	1500

NOTE: If these transformers' s operating temperature are -40°C~+85°C, to weave "LPJU54XXXXNL".

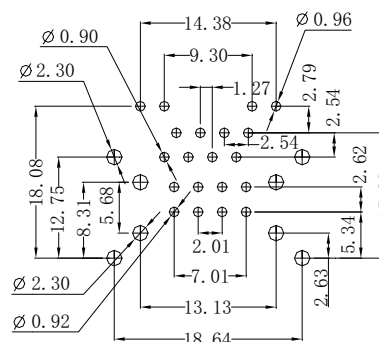
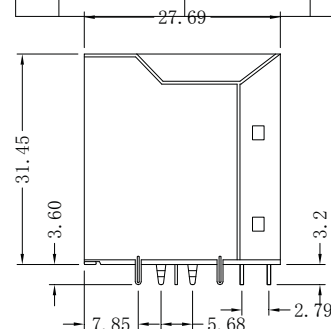
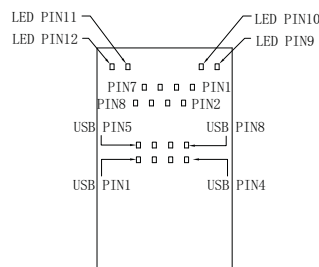
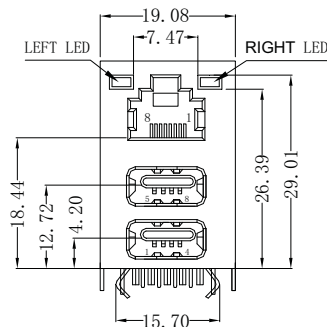
LPJU XXXX X NL
 ↳ RoHS
 ↳ LED Tab (1)
 ↳ Model:Schematic

(1)LED Ordering Options:

LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
A	YELLOW	GREEN	11 (9)
B	GREEN	YELLOW	12 (10)
C	GREEN	GREEN	14 (12)
P	GREEN	YELLOW	13 (11)
Q	YELLOW	GREEN/ORANGE	11 (9)
			12 (10)
			13 (11)
			14 (12)

Mechanical

RJU51XXB



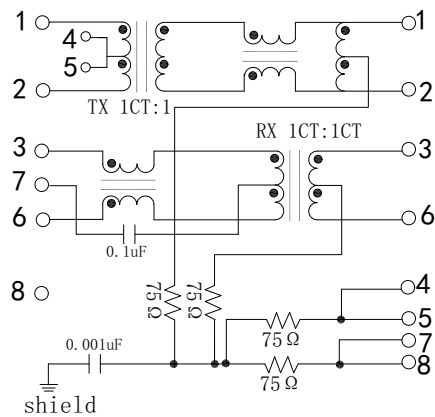
SUGGESTED PCB LAYOUT (TOP VIEW)

RJ45 10/100/1000 Base-TX Jack/Dual USB Combo

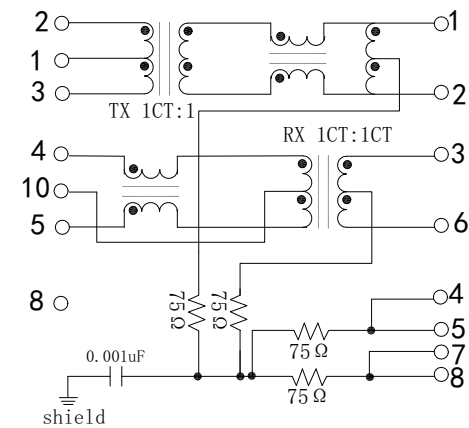
Link-PP Int'l Technology

Schematics

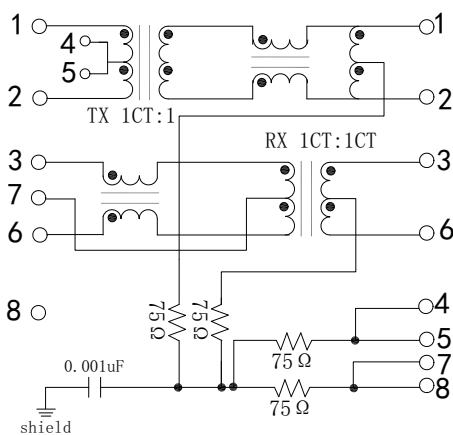
LPJU5102



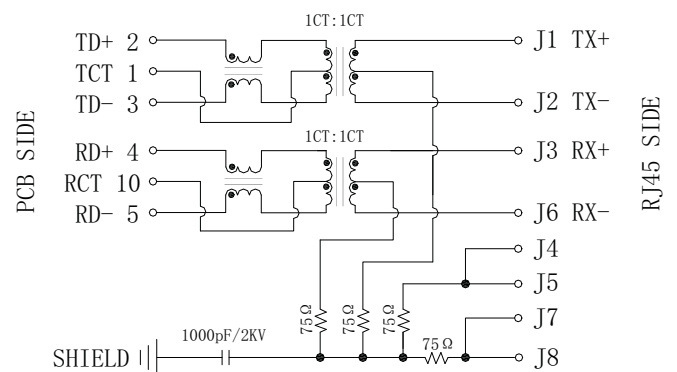
LPJU5103



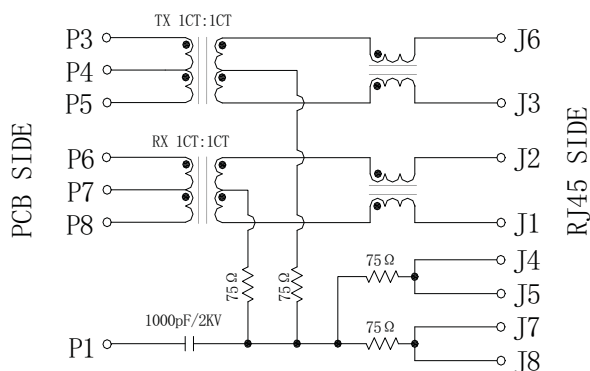
LPJU5104



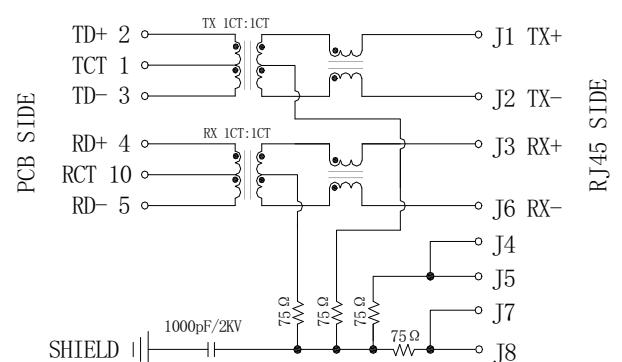
LPJU5114



LPJU5121



LPJU5183



RJ45 10/100/1000 Base-TX Jack/Dual USB Combo

Link-PP Int'l Technology

※Lan interface suitable for 10/100 /1000Base-TX applications

※RJ45/USB stacked design saves on PCB real estate

※USB module complies with USB 2.0 standards and meets CAT FAST Ethernet industry performance standard

※Meets or exceeds IEEE 802.3 and ANSI X 3.263 standards including 350uH min OCL with 8mA bias



Electrical Specifications @25°C --- Operating Temperature 0°C to +70°C

Part Number	Turns Ratios		DATA Rate	Insertion Loss (dB TYP)	Return Loss (dB TYP)@100 Ω				Crosstalk (dB TYP)			CMR (dB TYP)		Hipot (Vrms)
	TX	RX			1-100MHZ	1-30MHZ	30-60MHZ	60-80 MHZ	1-10 MHZ	30-60 MHZ	60-100 MHZ	1-50 MHZ	50-150 MHZ	
LPJU5202B	1:1	1:1	1000	-1.0	-18	-16	-12	-12	-40	-35	-30	-30	-20	1500
LPJU5203B	1:1	1:1	1000	-1.0	-18	-16	-12	-12	-40	-35	-30	-30	-20	1500

NOTE: If these transformers' s operating temperature are -40°C~+85°C, to weave "LPJU56XXXXNL".

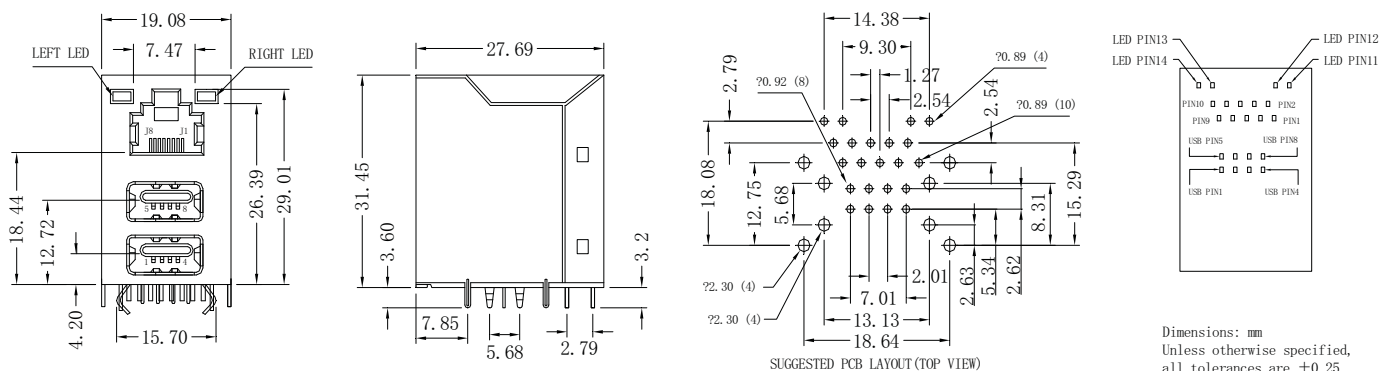
(1)LED Ordering Options:

LPJU XXXX X NL
 → RoHS
 → LED Tab (1)
 → Model:Schematic

LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
A	YELLOW	GREEN	11 (9)
B	GREEN	YELLOW	12 (10)
C	GREEN	GREEN	14 (12)
R	GREEN/ORANGE	GREEN	13 (11)

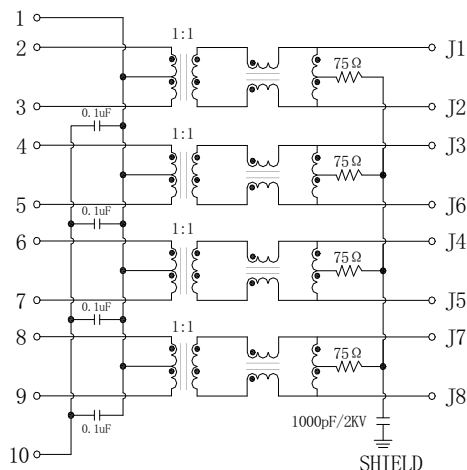
Mechanical

LPJU520XB

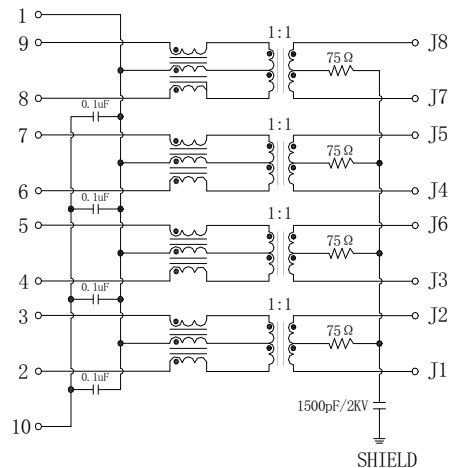


Schematics

LPJU5202



LPJU5203



10/100 Base-T RJ45 2×1 Tab-Down(Up)

Jack With Magnetic Modules

Link-PP Int'l Technology

※RJ45 2x1, with internal magnetics

※Options: 2x1 for 10/100 Base-TX

※Suitable for CAT 5 and 6 Fast Ethernet cable or better UTP

※Internal magnetics are 100% electrically tested for HI-POT and functionality

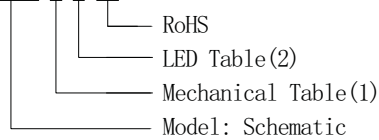
※350uH minimum OCL with 8mA bias current

※For RoHS part add suffix NL, RoHS NL peak solder rating 235℃



Part Number	Turn Ratio (±3%)		Insertion Loss (dB MAX)	Return Loss (MIN) 100 Ω ± 15 Ω				Crosstalk (dB MIN)	Common Mode Rejection(dB MIN)	HIPOT(Vrms) @60Hz 1MIN
	TX	RX		1-10MHz	10-30MHz	30-60MHz	60-100MHz			
LPJ17232	1CT:1CT	1CT:1CT	-1.0	-20	-16	-12	-10	-30dB	-30dB	1500Vrms
LPJ17633	1CT:1CT	1CT:1CT	-1.0	-20	-20	-15	-10	-30dB	-30dB	1500Vrms
LPJ17639	1CT:1CT	1CT:1CT	-1.0	-20	-16	-12	-10	-30dB	-30dB	1500Vrms
LPJ17640	1CT:1CT	1CT:1CT	-1.0	-20	-20	-15	-10	-30dB	-30dB	1500Vrms

NOTE: LPJ XXXXX X X NL



(2)LED Ordering Options:

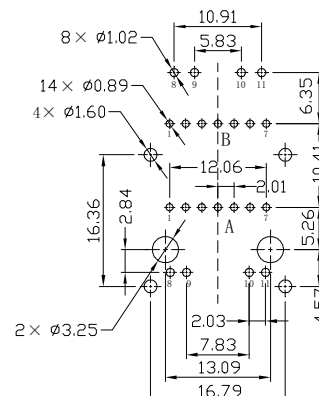
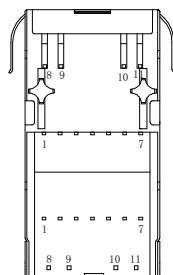
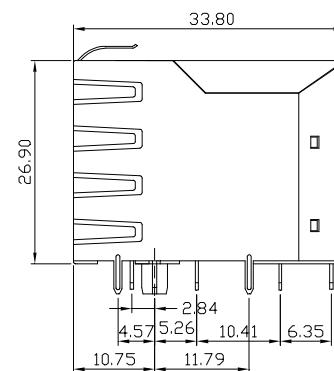
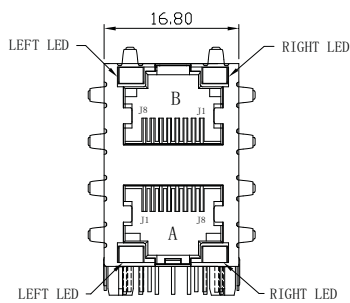
LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
A	YELLOW	GREEN	8
B	GREEN	YELLOW	9
C	GREEN	GREEN	10
D	YELLOW	GREEN	8
E	GREEN	YELLOW	9
F	GREEN	GREEN	10
G	YELLOW	GREEN	9
H	GREEN	YELLOW	8
W	GREEN	GREEN	10

(1)LPJ Series Mechanical:

A	With Led and EMI-Finger
B	With Led and Non EMI-Finger

Mechanical

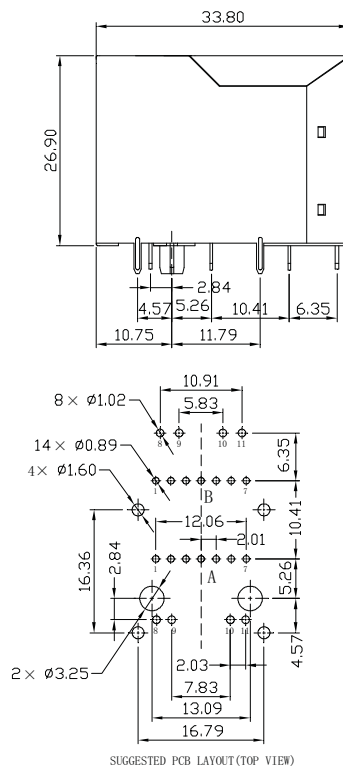
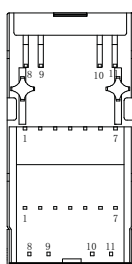
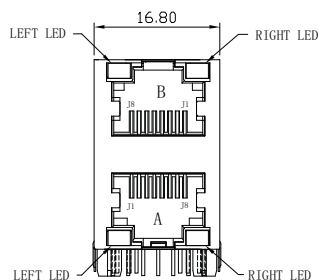
A



10/100 Base-T RJ45 2×1 Tab-Down(Up) Jack With Magnetic Module

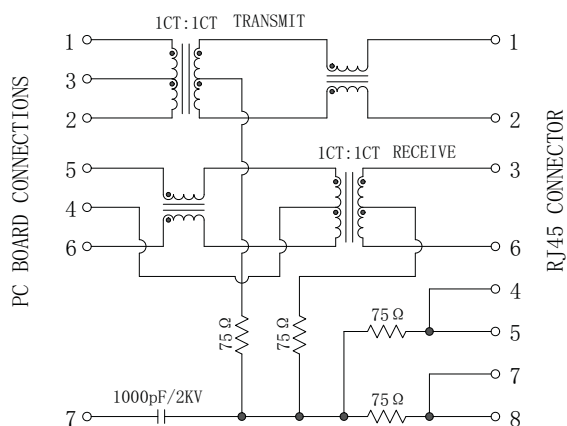
Link-PP Int'l Technology

B

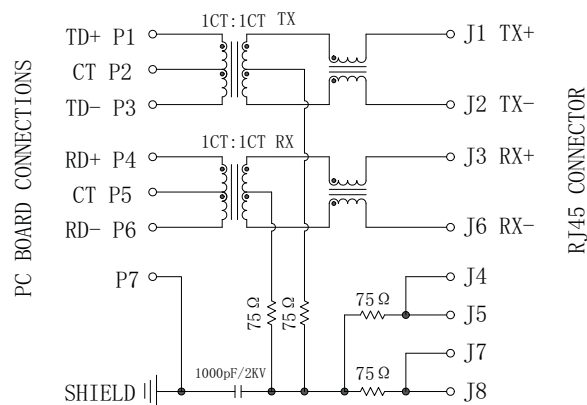


Dimensions: mm
Unless otherwise specified,
all tolerances are ± 0.25

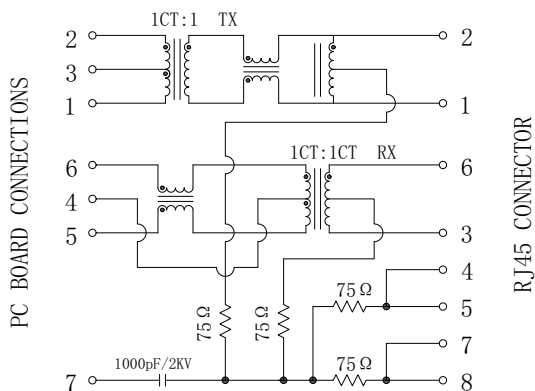
LPJ17232



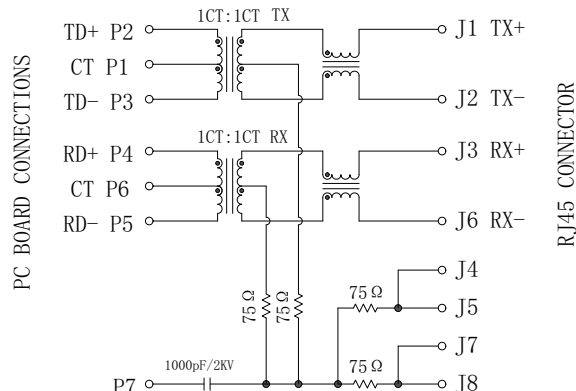
LPJ17633



LPJ17639



LPJ17640



10/100 Base-T RJ45 2×N Tab-Down(Up)

Jack With Magnetic Modules

Link-PP Int'l Technology

※RJ45 2xN, with internal magnetics

※Options:2x2,2x4,2x6,and 2x8 for 10/100 Base-TX

※Suitable for CAT 5 and 6 Fast Ethernet cable or better UTP

※Internal magnetics are 100% electrically tested for HI-POT and functionality

※350uH minimum OCL with 8mA bias current

※For RoHS part add suffix NL, RoHS NL peak solder rating 235℃

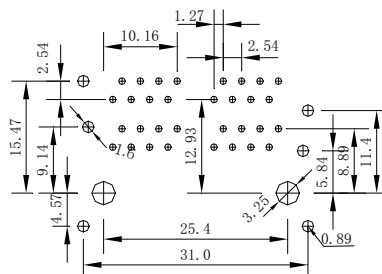
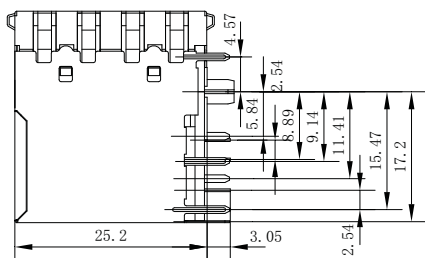
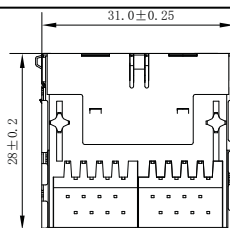
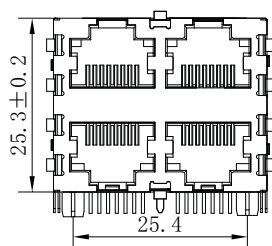


Part Number	Turn Ratio (±3%)		Insertion Loss (MAX)		Return Loss (MIN) 100 Ω ± 15 Ω		Crosstalk(dB MIN)	Common Mode Rejection(dB TYP)	HIPOT(Vrms)
	TX	RX	1-80MHz	100MHz	1-60MHz	60-100MHz	1-100MHz	1-100MHz	@60Hz 1MIN
LPJX7201	1CT:1CT	1CT:1CT	-1.0dB	-1.2dB	-16dB	-12dB	-35dB	-30dB	1500Vrms
LPJX7202	1CT:1CT	1CT:1CT	-1.0dB	-1.2dB	-16dB	-12dB	-35dB	-30dB	1500Vrms
LPJX7203	1CT:1CT	1CT:1CT	-1.0dB	-1.2dB	-16dB	-12dB	-35dB	-30dB	1500Vrms
LPJX7204	1CT:1CT	1CT:1CT	-1.0dB	-1.2dB	-16dB	-12dB	-35dB	-30dB	1500Vrms

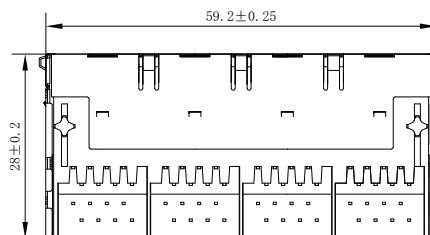
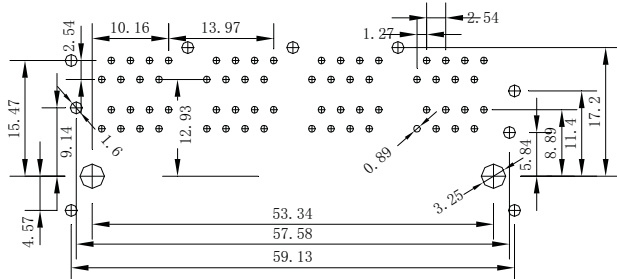
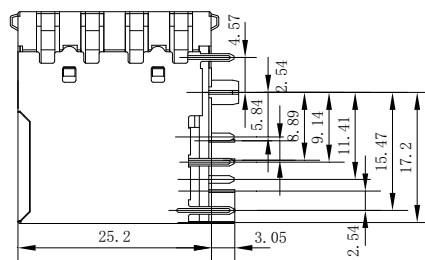
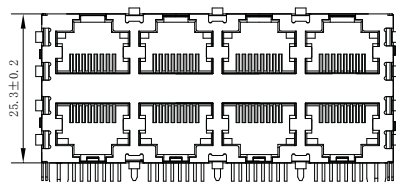
NOTE:X=2, →2×2; X=4, →2×4;X=6, →2×6;X=8, →2×8

Mechanical

2×2



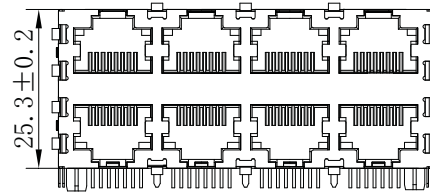
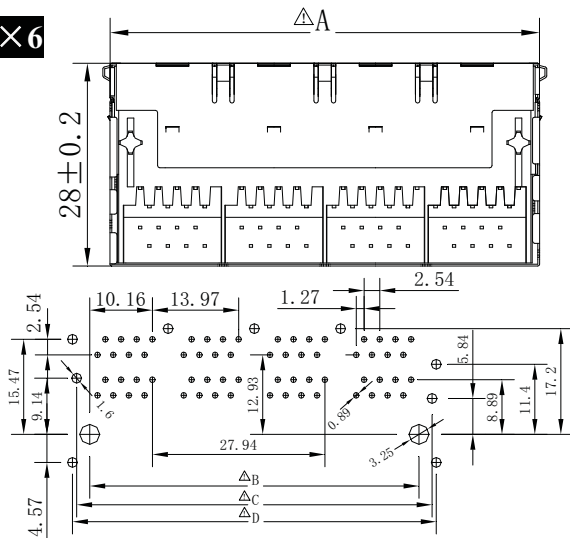
2×4



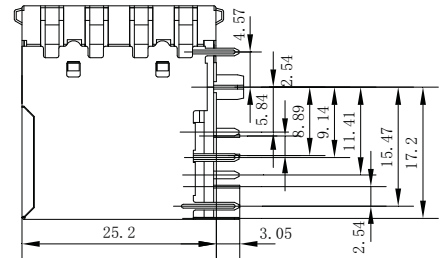
10/100 Base-T RJ45 1×N Tab-Down (Up) Jack With Magnetic Module

Link-PP Int'l Technology

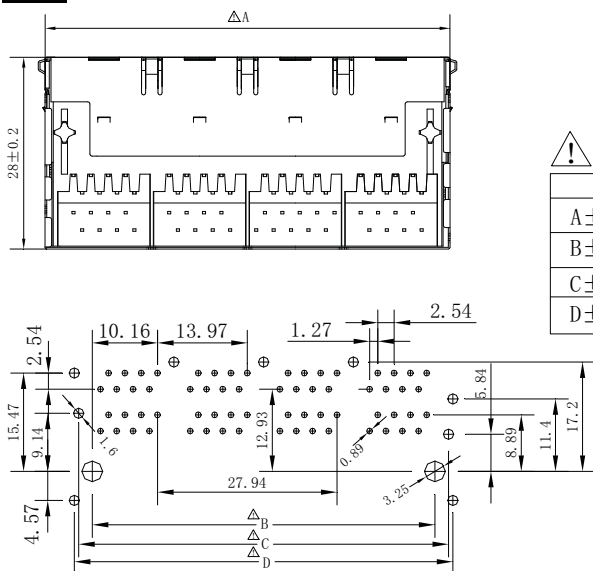
2×6



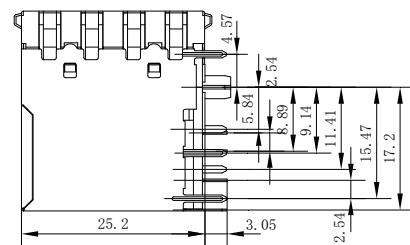
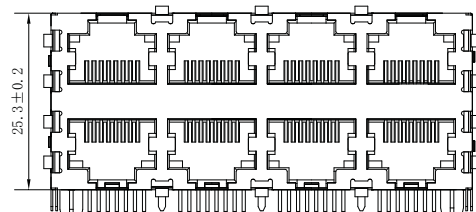
	2X6
A±0.25	87.14
B±0.25	81.28
C±0.25	85.52
D±0.25	87.07



2×8

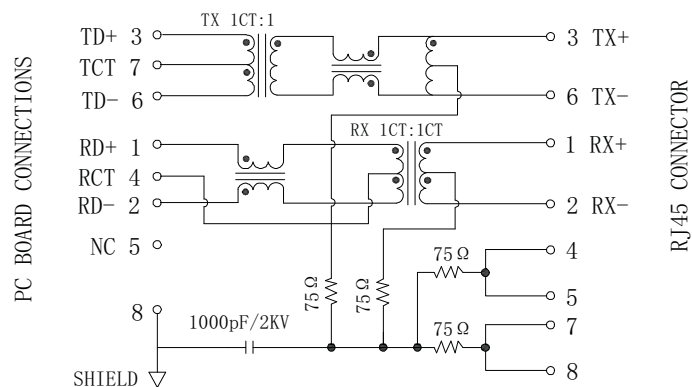


	2X8
A±0.25	115.1
B±0.25	109.24
C±0.25	113.48
D±0.25	115.03



Schematic

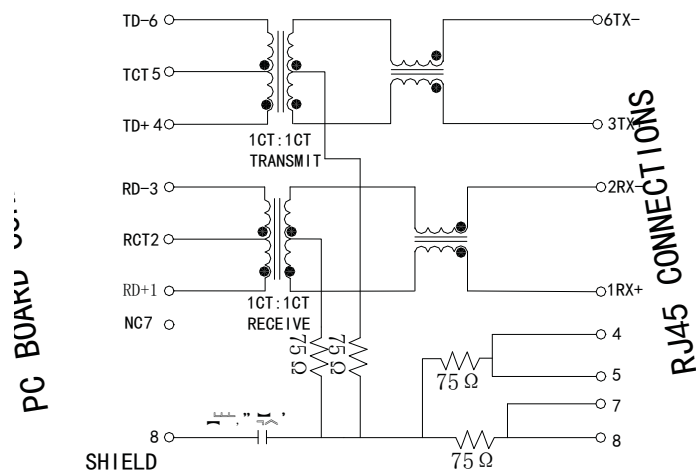
LPJX7201



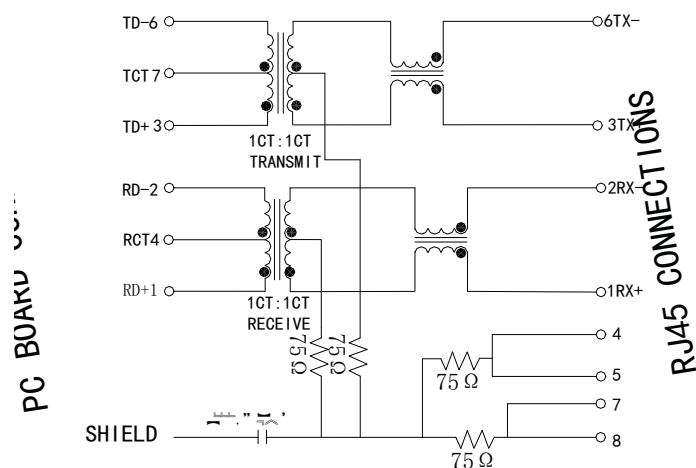
10/100 Base-T RJ45 1×N Tab-Down(Up) Jack With Magnetic Module

Link-PP Int'l Technology

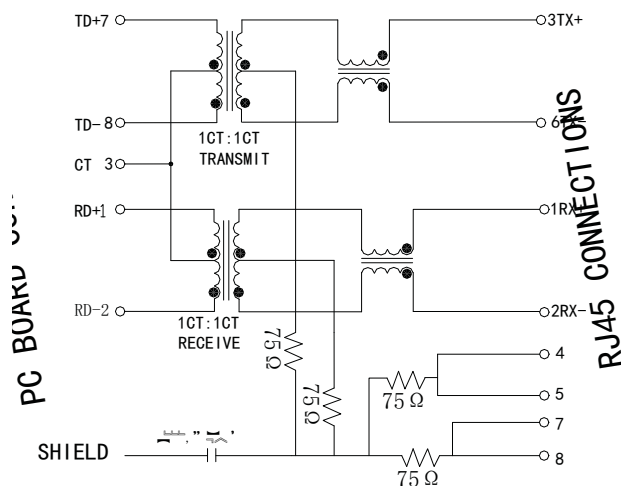
LPJX7202



LPJX7203



LPJX7204



Through Hole Tab-Down RJ-45 Jack With Gigabit Magnetic

Link-PP Int'l Technology

※Single port Tab-Down with internal magnetics for 1000 Base-TX

※Internal magnetics options available

※350uH minimum OCL with 8 mA bias current

※For RoHS part add suffix NL

※RoHS "NL" peak solder rating 235°C



1000 Base-T Electrical Specifications @25°C --- Operating Temperature 0°C to +70°C

Part Number	Turns Ratios		Insertion Loss (dB)	Return Loss (dB TYP)@100Ω				Crosstalk (dB TYP)			DCMR (dB TYP)			Hipot (Vrms)
	TX	RX		1-30MHz	40MHz	50MHz	60-80MHz	30MHz	60MHz	100MHz	30MHz	60MHz	100MHz	
LPJG0801	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-35	-32	-30	1500
LPJG0802	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-35	-32	-30	1500
LPJG0803	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-35	-32	-30	1500
LPJG0804	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-35	-32	-30	1500

NOTE: If these transformers' s operating temperature are -40°C~+85°C, to weave "LPJG48XXXXNL".

LPJG XXXX X X NL
 Model:Schematic ←
 Mechanitic(1) ←
 RoHS →
 LED Table (2) →

(1)LPJ Series Mechanical:

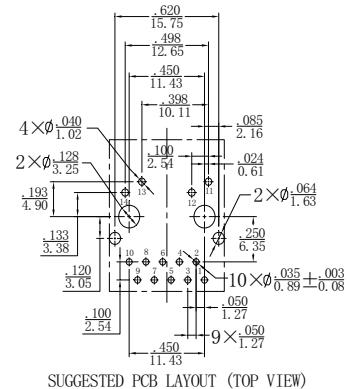
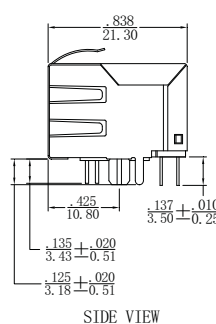
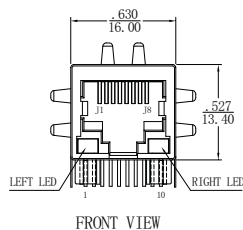
A	With Staggered Led Footprint and EMI-Finger (10P8C)
B	With Staggered Led Footprint and Non EMI-Finger (10P8C)
C	Without LED, With EMI-Finger (10P8C)
D	Without LED and EMI-Finger (10P8C)
E	With Inline Led Footprint and EMI-Finger(4.90mm* (10P8C))
F	With Inline Led Footprint and Non EMI-Finger(4.90mm* (10P8C))
G	With Inline Led Footprint and EMI-Finger(4.06mm* (10P8C))
H	With Inline Led Footprint and Non EMI-Finger(4.06mm* (10P8C))

(2)LED Ordering Options:

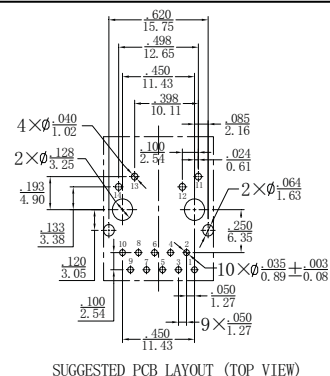
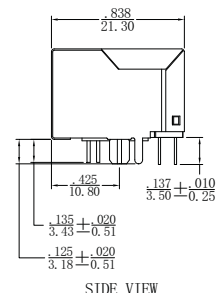
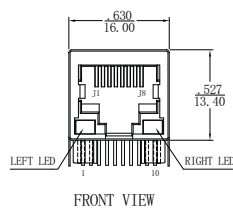
LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
A	YELLOW	GREEN	11 o 12 o 14 o 13 o
B	GREEN	YELLOW	11 o 12 o 14 o 13 o
C	GREEN	GREEN	11 o 12 o 14 o 13 o
D	YELLOW	GREEN	11 o 12 o 14 o 13 o
E	GREEN	YELLOW	11 o 12 o 14 o 13 o
F	GREEN	GREEN	11 o 12 o 14 o 13 o
V	GREEN	ORANGE/GREEN	11 o 12 o 14 o 13 o

Mechanica

A



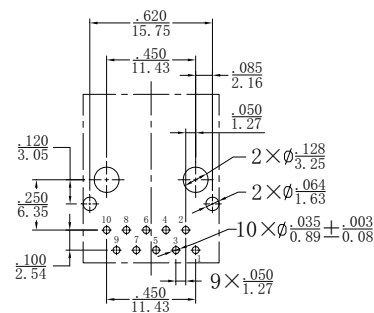
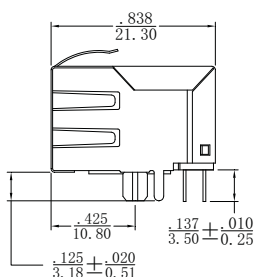
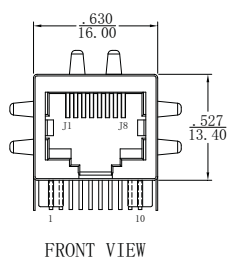
B



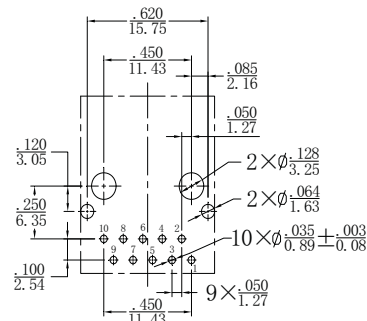
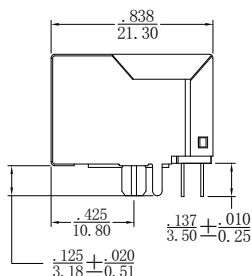
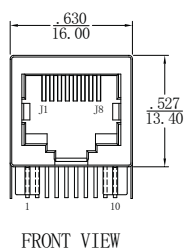
Through Hole Tab-Down RJ-45 Jack With Gigabit Magnetic

Link-PP Int'l Technology

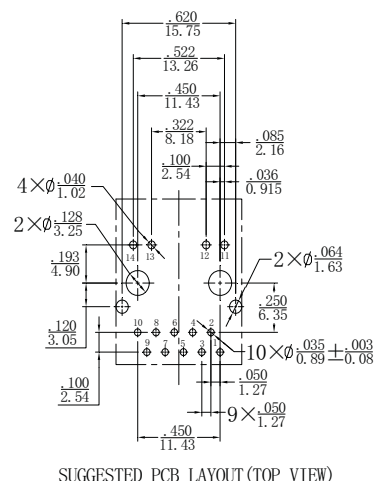
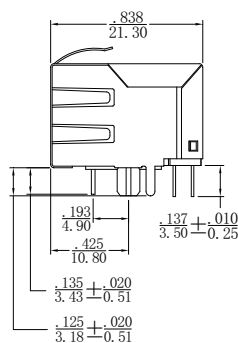
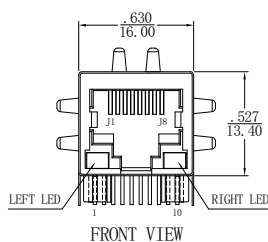
C



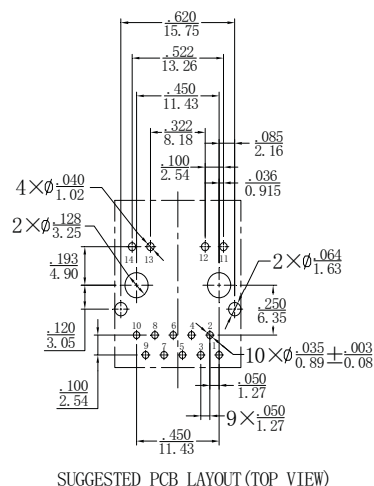
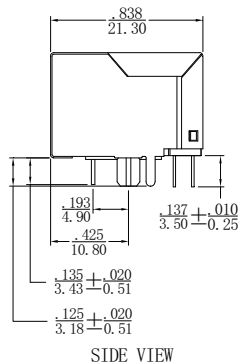
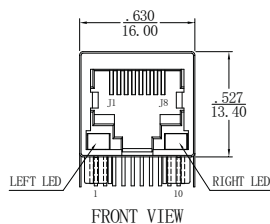
D



E



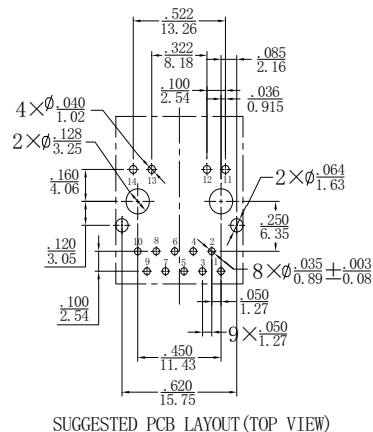
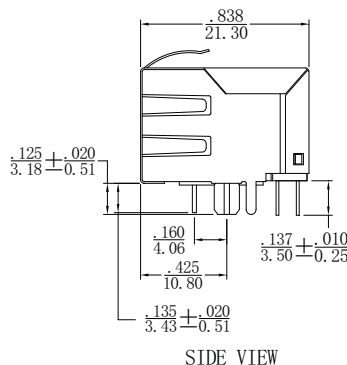
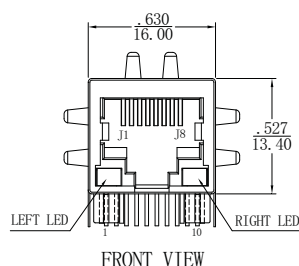
F



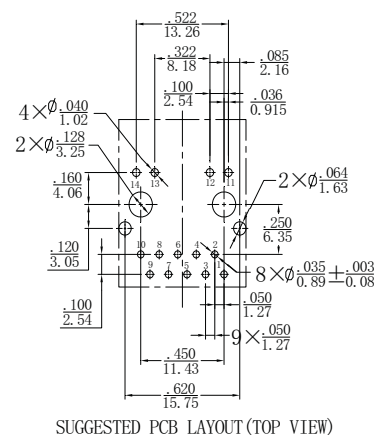
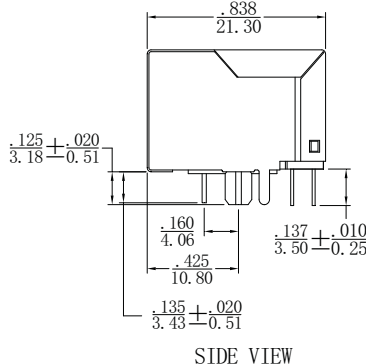
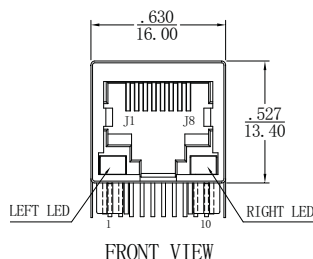
Through Hole Tab-Down RJ-45 Jack With Gigabit Magnetic

Link-PP Int'l Technology

C



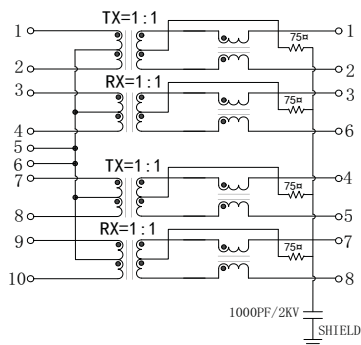
H



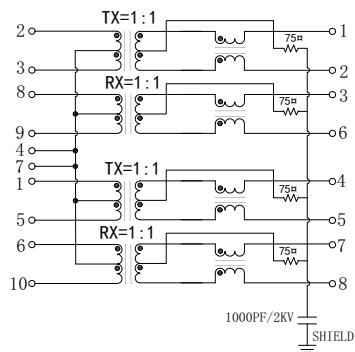
Dimensions: Inch/mm
Unless otherwise specified,
all tolerances are $\pm .010$
 ± 0.25

Schematics

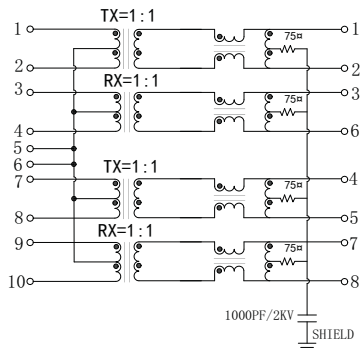
LPJG0801



LPJG0802



LPJG0803



LPJG0804

