

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



Coilmaster Electronics Co., Ltd.

PART NUMBERING SYSTEM

RJ32 — **XXXX** — **X** — **X** — **LF**
 Type Model Mechanical LED table Lead Free

(1) RJ32 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(4.90)
F	With Inline LED footprint and Non EMI-Finger(4.90)
G	With Inline LED footprint and EMI-Finger(4.60)
H	With Inline LED footprint and Non EMI-Finger(4.60)



RoHS Compliant

(2) LED ordering options :

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

FEATURES

- 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 100Base-T
- 350uH Minimum OCL with 8mA bias current
- **RoHS compliant peak solder rating 235°C**

10/100Base-TX RJ45 Connecto With Integrated Magnetics(Tab-Down)



Coilmaster Electronics Co., Ltd.

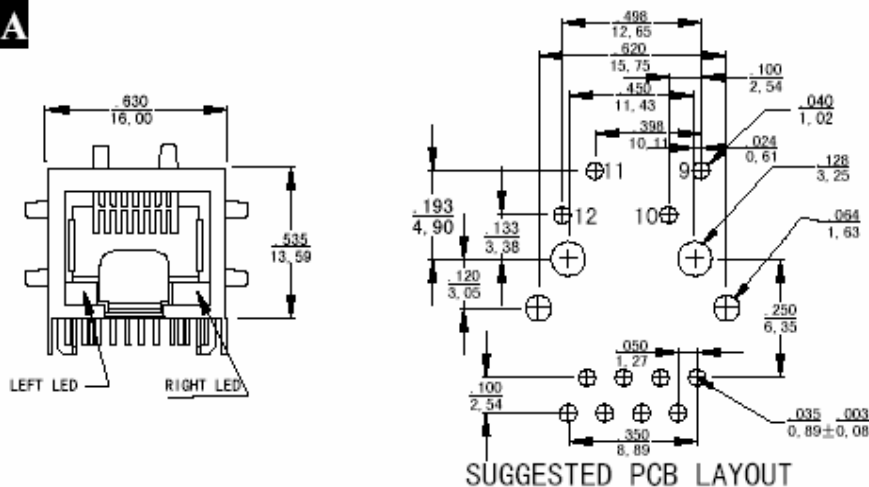
SHAPES AND DIMENSIONS



RoHS Compliant

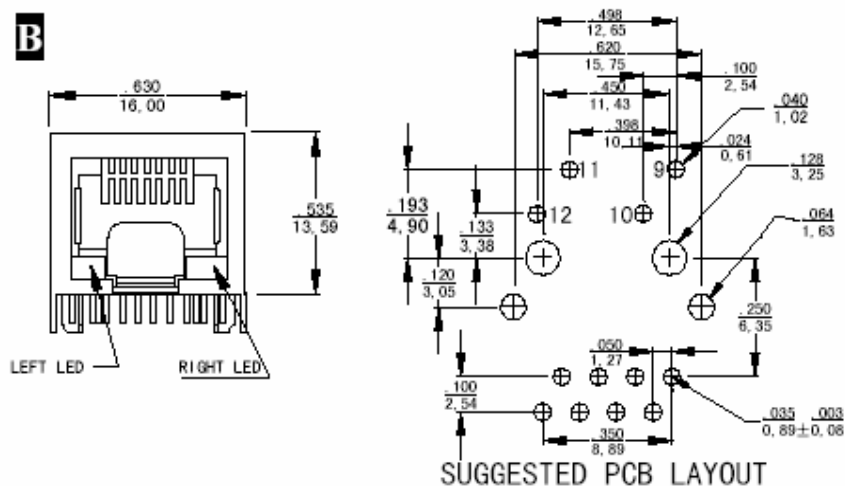
Mechanicals A : LED color Y(Left) & G(Right)

A



Mechanicals B : LED color G(Left) & Y(Right)

B



10/100Base-TX RJ45 Connecto With Integrated Magnetics(Tab-Down)



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SHAPES AND DIMENSIONS

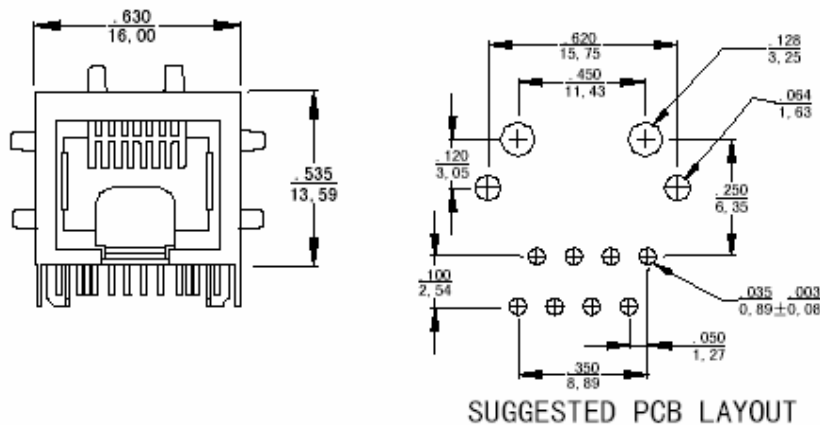
SHAPES AND DIMENSIONS

Mechanicals C : LED color G(Left) & G(Right)



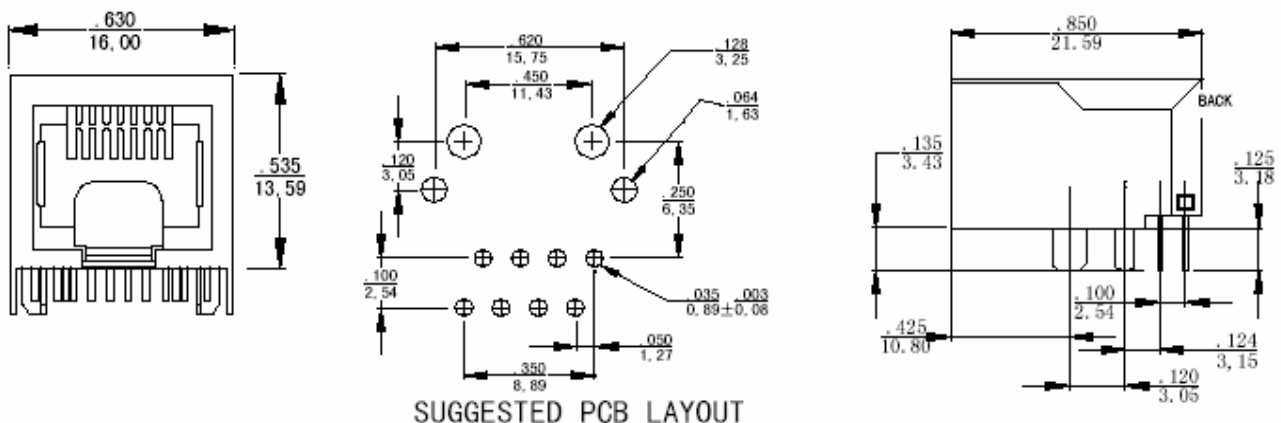
RoHS Compliant

C



Mechanicals D : LED color Y(Left) & G(Right)

D



10/100Base-TX RJ45 Connecto With Integrated Magnetics(Tab-Down)



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SHAPES AND DIMENSIONS

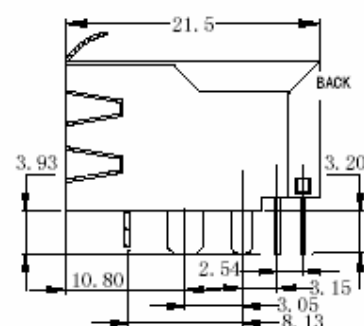
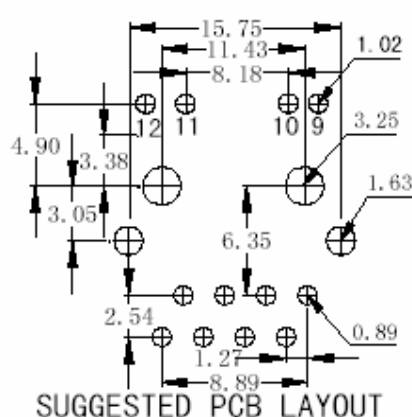
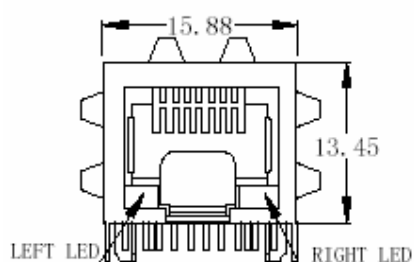
SHAPES AND DIMENSIONS

Mechanicals E : LED color G(Left) & Y(Right)



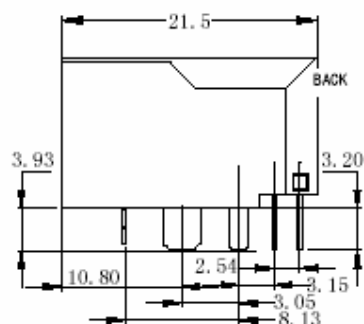
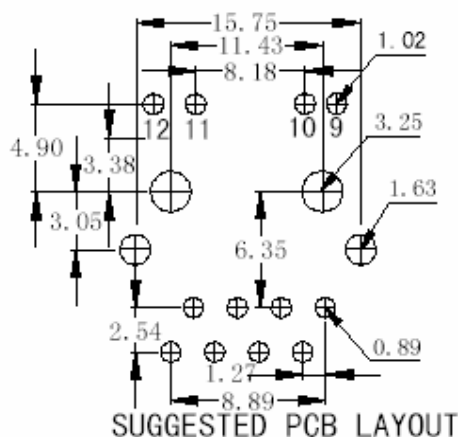
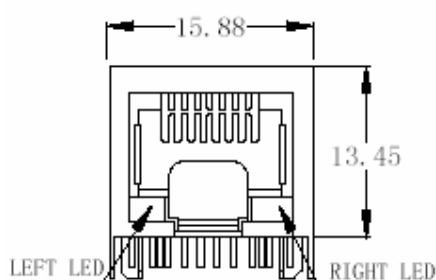
RoHS Compliant

E



Mechanicals F : LED color G(Left) & G(Right)

F



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



Coilmaster Electronics Co., Ltd.

SHAPES AND DIMENSIONS

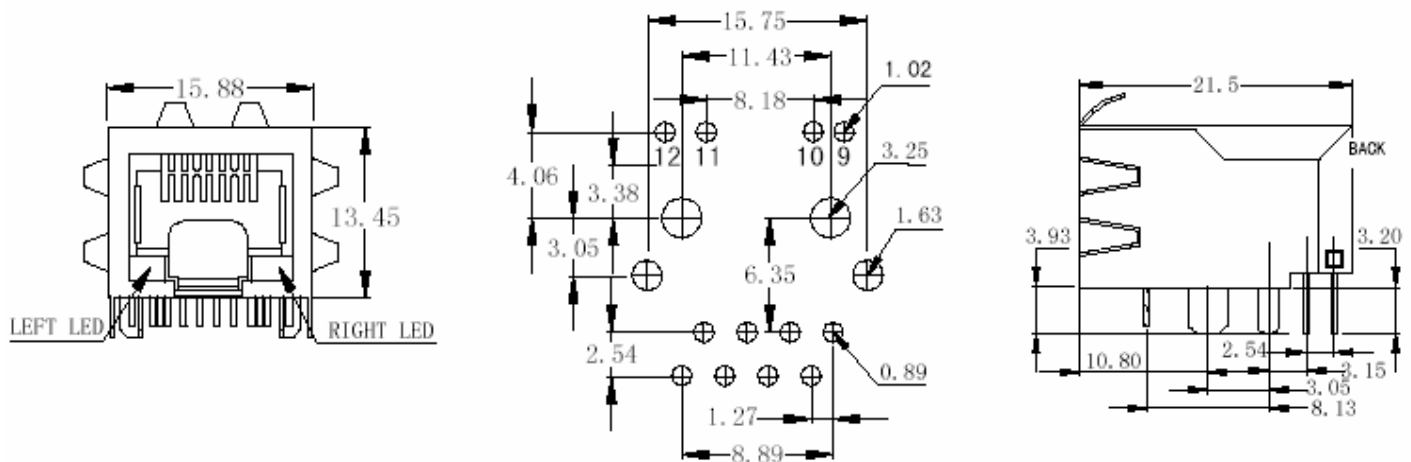


RoHS Compliant

SHAPES AND DIMENSIONS

Mechanicals G : LED color Y(Left) & G(Right)

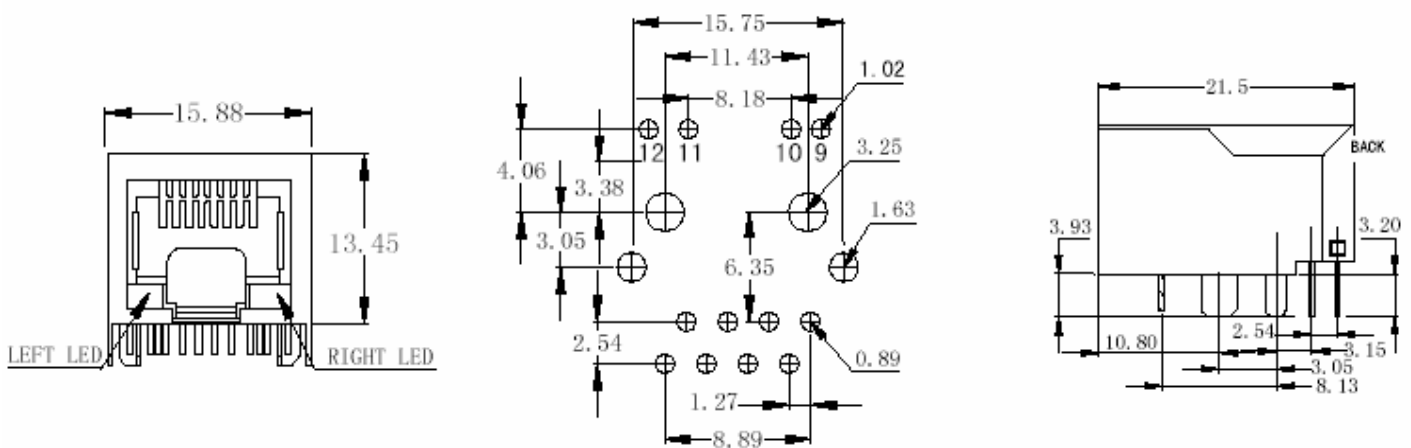
G



SUGGESTED PCB LAYOUT

Mechanicals H : LED color G(Left) & Y(Right)

H



SUGGESTED PCB LAYOUT

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



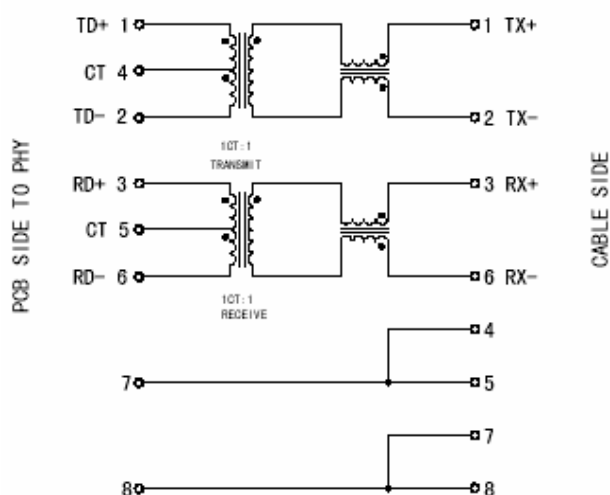
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Schematics

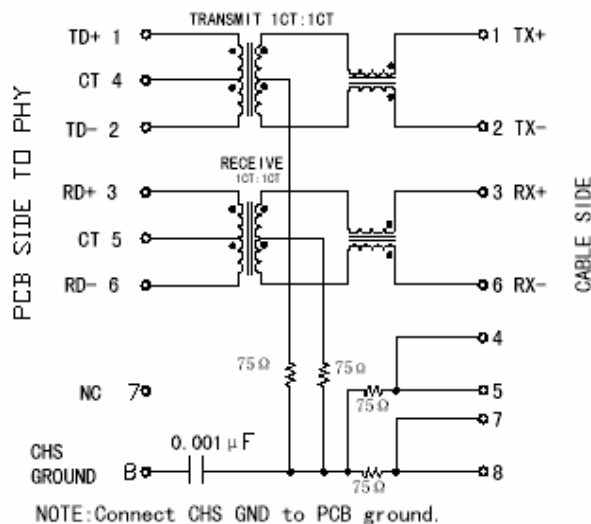


RoHS Compliant

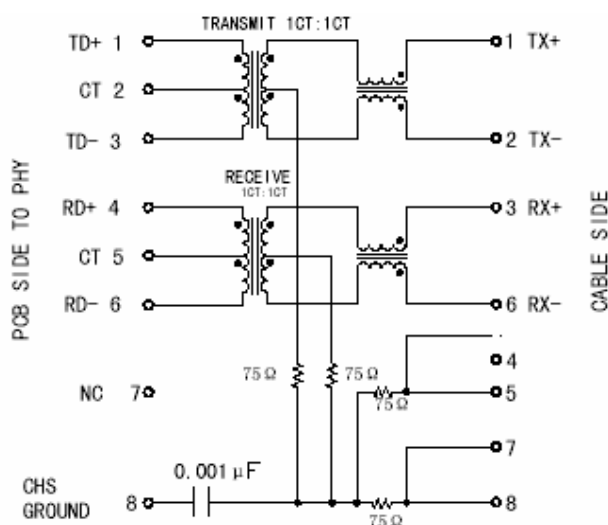
RJ32-0006-LF



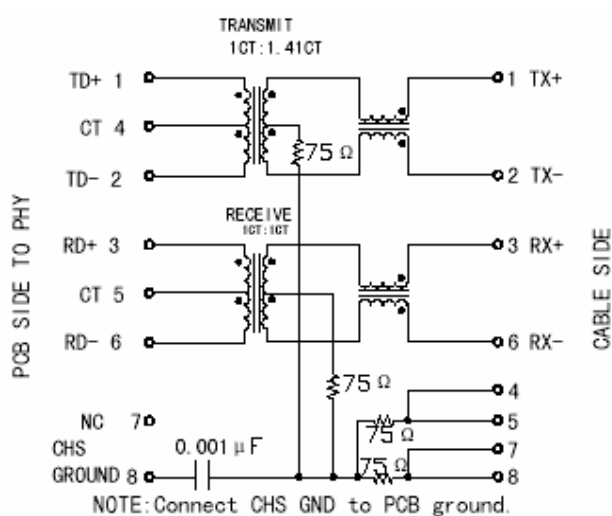
RJ32-0011-LF



RJ32-0012-LF



RJ32-0018-LF



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



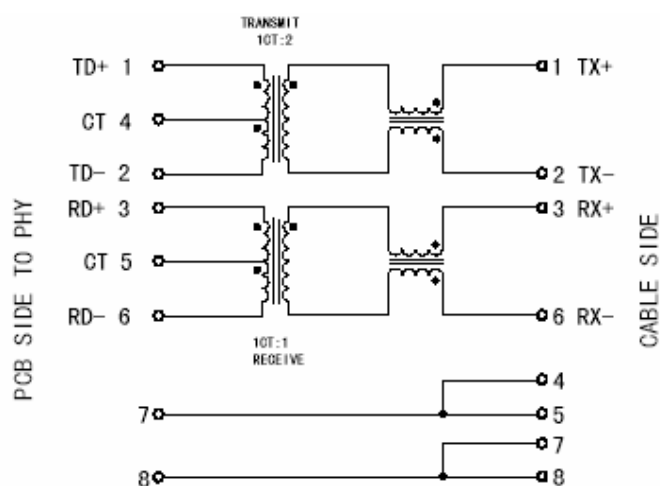
Coilmaster Electronics Co., Ltd.

Schematics

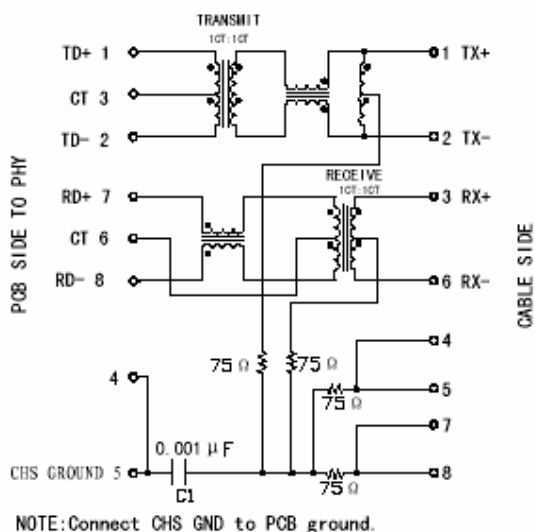


RoHS Compliant

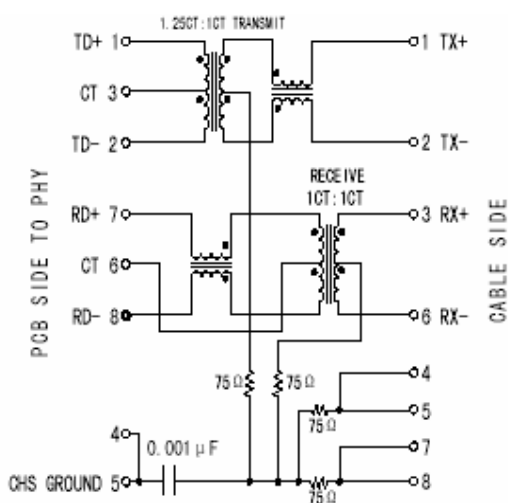
RJ32-0024-LF



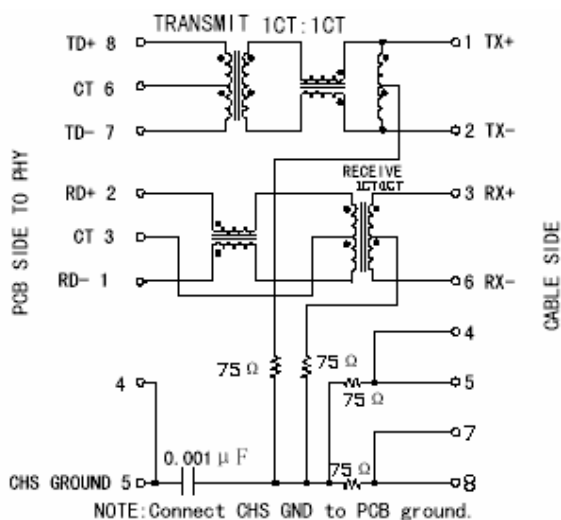
RJ32-0026-LF



RJ32-0033-LF



RJ32-0035-LF



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



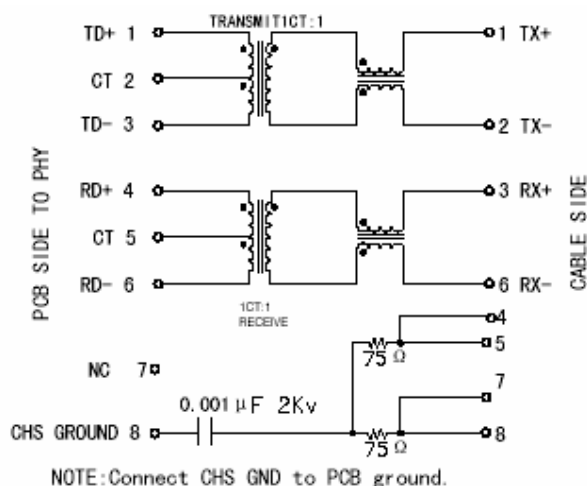
Coilmaster Electronics Co., Ltd

Schematics

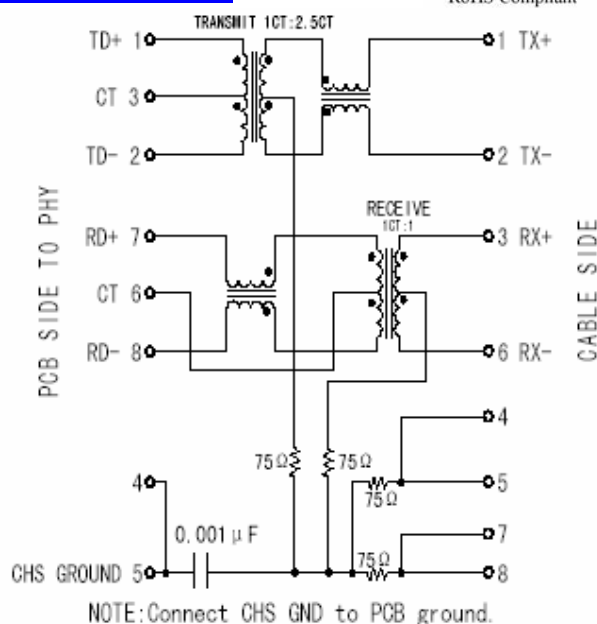


RoHS Compliant

RJ32-0048-LF



RJ32-0073-LF



ELECTRICAL CHARACTERISTICS @ 25°C --- Operating Temperature 0°C to 70°C

PART NUMBER	Turns Ratios		Insertion Loss (dB Typ)	Return loss (dB Typ) 100 Ω ±15 Ω MHz				Crosstalk (dB Typ) MHz			Common Mode Rejection (dB Typ)		Hipot (Vrms Min) @60Hz
	TX	RX		1-10	10-30	30-60	60-100	1-30	30-60	60-100	1-50	50-150	
RJ320006-LF	1CT:1	1CT:1	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
RJ320011-LF	1CT:1	1CT:1	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
RJ320012-LF	1CT:1	1CT:1	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
RJ320018-LF	1CT:1.4	1CT:1T	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
RJ320024-LF	1CT:2	1CT:1	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
RJ320026-LF	1CT:1	1CT:1	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
RJ320033-LF	1.25CT:	1CT:1	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
RJ320035-LF	1CT:1	1CT:1	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
RJ320048-LF	1CT:1	1CT:1	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
RJ320073-LF	1CT:2.5	1CT:1	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500

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PART NUMBERING SYSTEM

RJ32 — **1001** — **X** — **X** — **LF**
 Type Model Mechanical LED table Lead Free

(1) RJ32 Series Mechanical :

A	With LED and EMI-Finger (8Pin)
B	With LED and Non EMI-Finger (8Pin)
C	Without LED with EMI-Finger (8Pin)
D	Without LED and EMI-Finger (8Pin)
E	With LED and EMI-Finger(6Pin)



RoHS Compliant

(2) LED ordering options :

LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
A	Y	G	9
B	G	Y	10
C	G	G	12
D	Y	G	11
E	G	Y	9
F	G	G	10
G	Y	G	12
H	G	Y	11
J	Y	G	7
K	G	OG	8

FEATURES

- 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 100Base-T
- 350uH Minimum OCL with 8mA bias current
- RoHS compliant peak solder rating 235°C**

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



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SHAPES AND DIMENSIONS

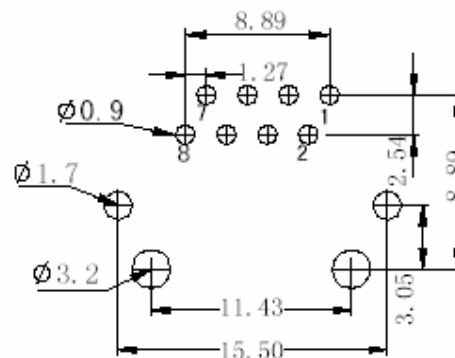
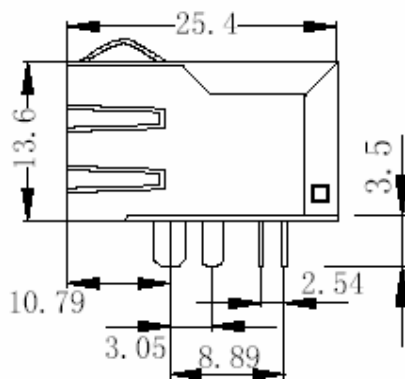
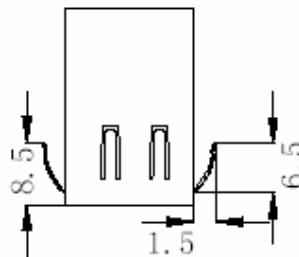
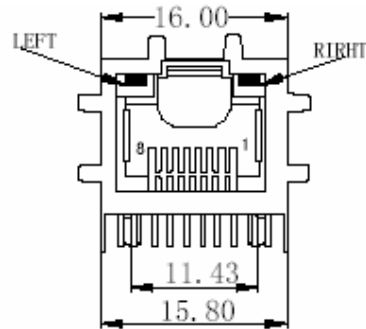


RoHS Compliant

SHAPES AND DIMENSIONS

Mechanical A : LED color Y(Left) & G(Right)

A



10/100Base-TX RJ45 Connecto With Integrated Magnetics(Tab-Down)



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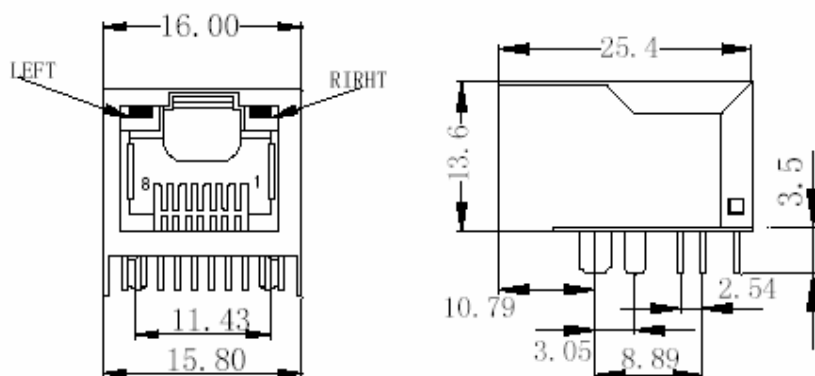
SHAPES AND DIMENSIONS



RoHS Compliant

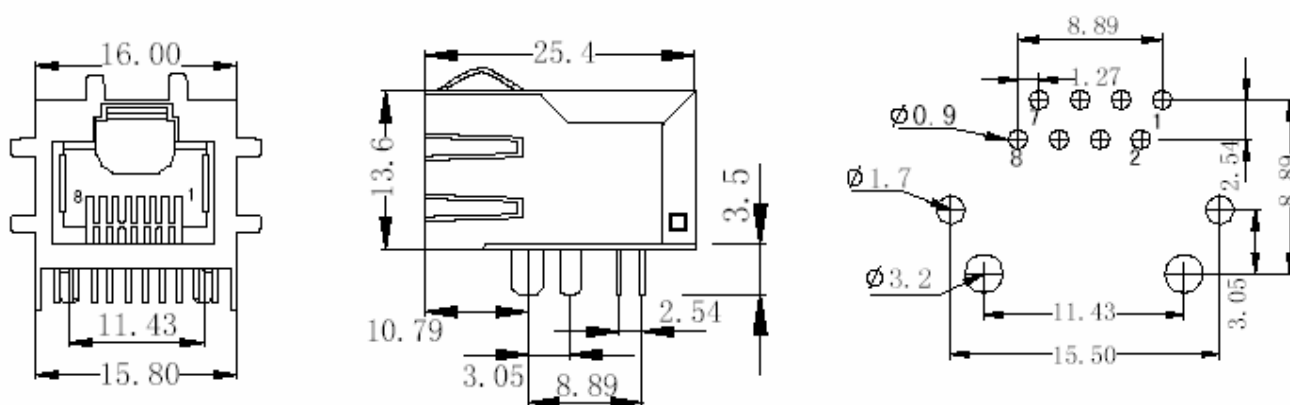
Mechanicals B : LED color G(Left) & Y(Right)

B



Mechanicals C : LED color G(Left) & G(Right)

C



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



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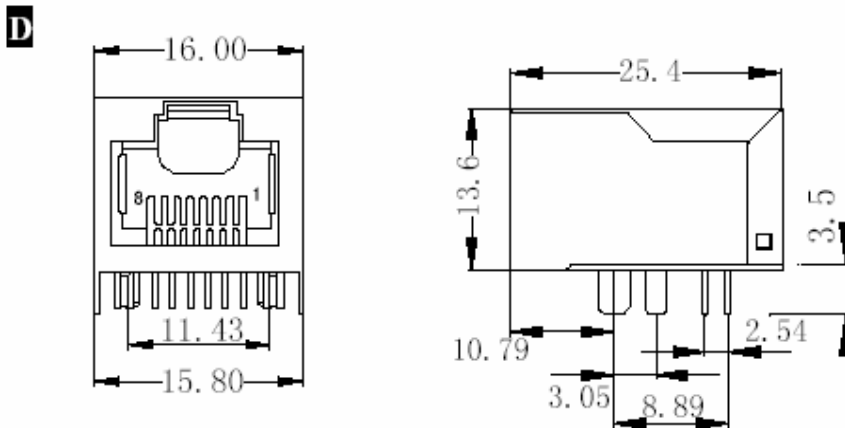
SHAPES AND DIMENSIONS



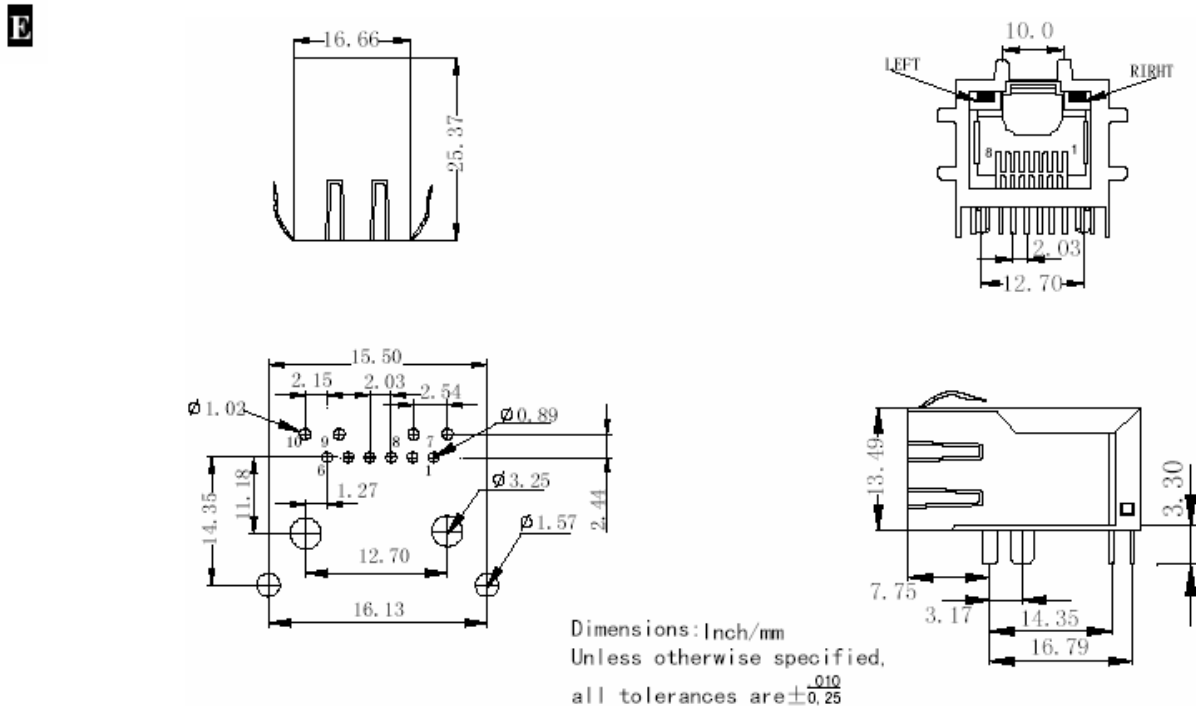
RoHS Compliant

SHAPES AND DIMENSIONS

Mechanicals D : LED color Y(Left) & G(Right)



Mechanicals E : LED color G(Left) & Y(Right)



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



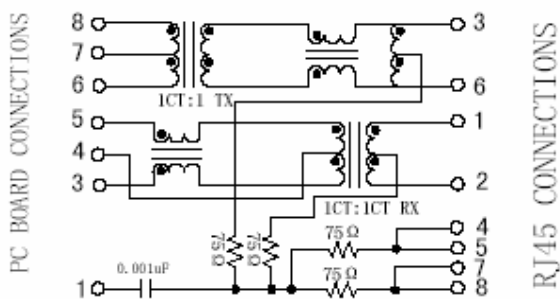
Coilmaster Electronics Co., Ltd.

Schematics

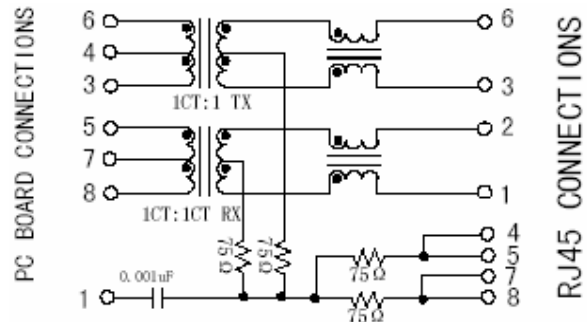


RoHS Compliant

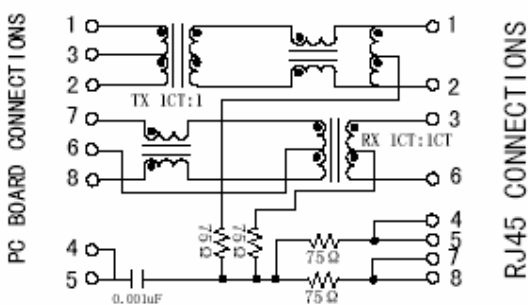
RJ32-0006-LF



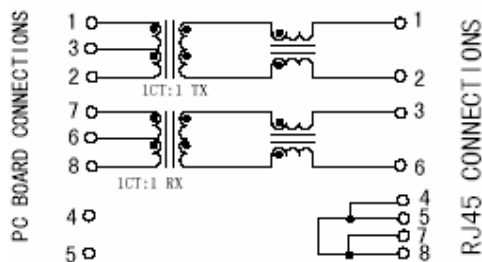
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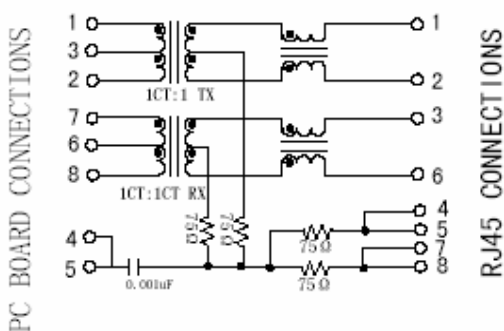
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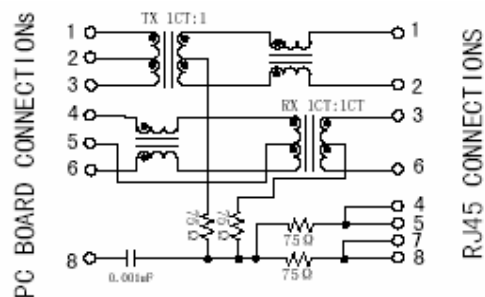
RJ32-0018-LF



RJ32-0012-LF



RJ32-0018-LF



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



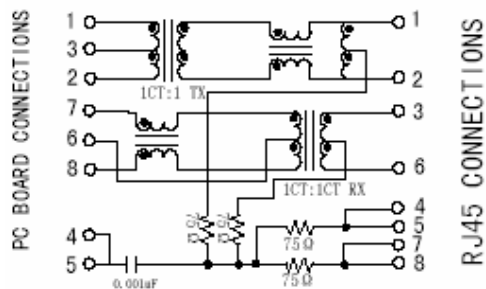
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Schematics

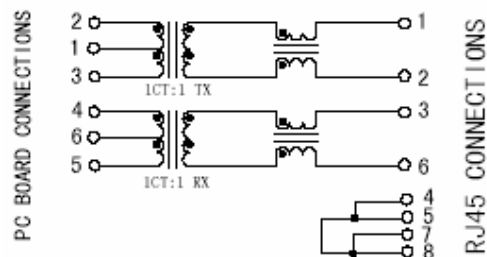


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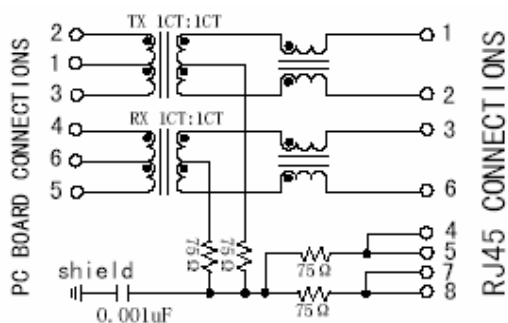
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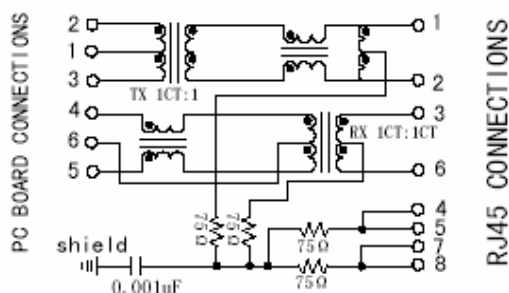
RJ32-0011-LF



RJ32-0012-LF



RJ32-0018-LF



10/100Base-TX RJ45 Connector

With Integrated

Magnetics(Tab-Down)



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FEATURES

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- 1x1 Tab-Down RJ45 with internal magnetics
- Available with or without LEDs
- Meets or exceeds IEEE 802.3 standard for 100Base-T
- 350uH Minimum OCL with 8mA bias current
- **RoHS compliant peak solder rating 235°C**

ELECTRICAL CHARACTERISTICS @ 25°C --- Operating Temperature 0°C to 70°C

PART NUMBER	Turns Ratios		Insertion Loss (dB Typ)	Return loss (dB Typ) 100Ω±15Ω MHz				Crosstalk (dB Typ) MHz			Common Mode Rejection (dB Typ)		Hipot (Vrms Min) @60Hz 1Min
	TX	RX		1-10	10-30	30-60	60-100	1-30	30-60	60-100	1-50	50-150	
RJ32-1001-LF	1CT:1	1CT:1	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
RJ32-1002-LF	1CT:1	1CT:1	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
RJ32-1006-LF	1CT:1	1CT:1T	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
RJ32-1011-LF	1CT:1	1CT:1	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
RJ32-1012-LF	1CT:1	1CT:1	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
RJ32-1026-LF	1CT:1	1CT:1	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
RJ32-2006-LF	1CT:1	1CT:1	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
RJ32-2011-LF	1CT:1	1CT:1	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
RJ32-2026-LF	1CT:1	1CT:1	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500



RJ3213F SERIES ~

RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE



RoHS Compliant

FEATURES

- Magnetic designs to support every PHY
- Meet or exceed IEEE 802.3 and ANSI X3.263 standards
- Including 350uH min OCL with 8mA bias
- Minimum 1500Vrms isolation per IEEE 802.3 requirement
- Designed for 100 base transmission over UTP-5 cable
- Size same as RJ-45 modular jack to save PCB board space

ELECTRICAL SPECIFICATIONS

P/N	Turns Ratio ±5%		EMI Fingers	LED L/R	Insertion Loss (dB Typ.)	Return Loss (dB Typ. @100Ω) MHz				Common Mode Rejection (dB Typ.) MHz			Cross Talk (dB Typ.) MHz			Hipot	
	TX	RX				0.3-100MHz	1~30	40	50	60~80	30	60	100	30	60	100	Vrms
																	MIN
RJ3213F-60X-LF	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-14	-12	-35	-30	-25	-45	-40	-35	1500	
RJ3213F-61X-LF	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-14	-12	-35	-30	-25	-45	-40	-35	1500	
RJ3213F-62X-LF	1CT:1	1CT:1	YES	N/A	-1	-18	-16	-14	-12	-35	-30	-25	-45	-40	-35	1500	
RJ3213F-69GYDNW2-LF	1CT:1	1CT:1	NO	G/Y	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500	
RJ3213F-69ND2-LF	1CT:1	1CT:1	YES	N/A	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500	
RJ3213F-69GYD2-LF	1CT:1	1CT:1	YES	G/Y	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500	
RJ3213F-64NW2-LF	1CT:1CT	1CT:1CT	NO	N/A	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500	
RJ3213F-64GYDNW2-LF	1CT:1CT	1CT:1CT	NO	G/Y	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500	
RJ3213F-64ND2-LF	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500	
RJ3213F-64GYD2-LF	1CT:1CT	1CT:1CT	YES	G/Y	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500	
RJ3213F-64GGD2-LF	1CT:1CT	1CT:1CT	YES	G/G	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500	
RJ3213F-61ND2-LF	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500	
RJ3213F-64AND2-LF	1CT:1.414CT	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500	
RJ3213F-64AGGD2-LF	1CT:1.414CT	1CT:1CT	YES	G/G	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500	
RJ3213F-62ANW2-LF	1CT:1	1CT:1CT	NO	N/A	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500	
RJ3213F-62AGYDNW2-LF	1CT:1	1CT:1CT	NO	G/Y	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500	

RJ3213F SERIES ~

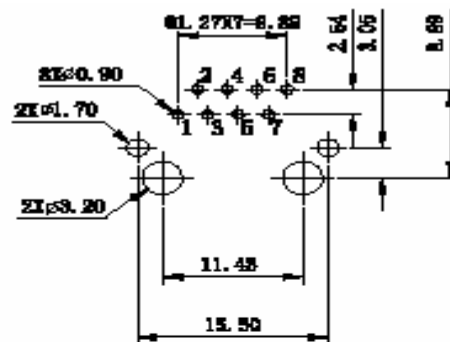
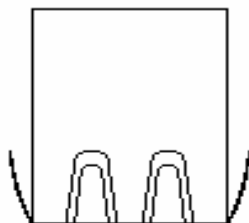
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE



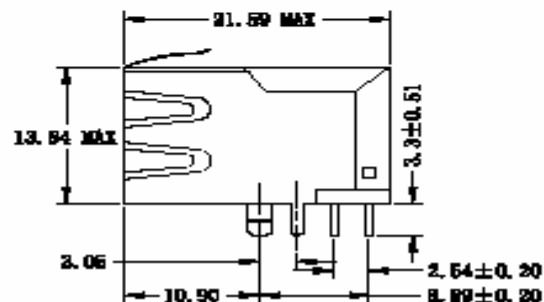
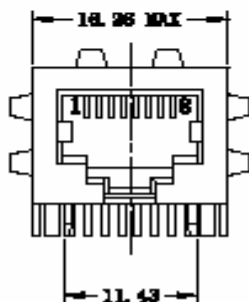
RoHS Compliant

P/N	Turns Ratio		EMI Fingers	LED	Insertion	Return Loss				Common			Cross Talk			Hipot
	±5%			L/R	Loss	(dB Typ. @100Ω)				Mode Rejection						
	TX	RX			(dB Typ.)	MHz				(dB Typ.) MHz			(dB Typ.) MHz			Vrms
					0.3-100MHz	1~30	40	50	60~80	30	60	100	30	60	100	MIN.
RJ3213F-62AGGDNW2-LF	1CT:1	1CT:1CT	NO	G/G	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500
RJ3213F-62AND2-LF	1CT:1	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500
RJ3213F-62AGYD2-LF	1CT:1	1CT:1CT	YES	G/Y	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500
RJ3213F-62AGGD2-LF	1CT:1	1CT:1CT	YES	G/G	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500
RJ3213F-62ADGD2-LF	1CT:1	1CT:1CT	YES	YG/G	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500
RJ3213F-62CGYD2-LF	1CT:1	1CT:1CT	YES	G/Y	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500
RJ3213F-60CND2-LF	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500
RJ3213F-60END2-LF	1CT:1.41CT	1CT:1.41CT	YES	N/A	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500
RJ3213F-60VGYD2-LF	1CT:1CT	1CT:1CT	YES	G/Y	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500
RJ3213F-61FND2-LF	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500
RJ3213F-66YGNW2-LF	1CT:1CT	1CT:1CT	YES	Y/G	-1	-18	-16	-12	-10	-30	-20	-20	-40	-35	-30	1500

DIMENSIONS



**PC Board Layout
Component Side Shown**



Dimensions: m/m all tolerances are ± 0.25



Coilmaster Electronics Co., Ltd.

9F-3 No.398, Huan Bei Rd. Chung Li City, Taoyuan 320, Taiwan
Tel : +886-3-422-8279 Fax : +886-3-422-8734

E-mail : info@coilmaster.com.tw

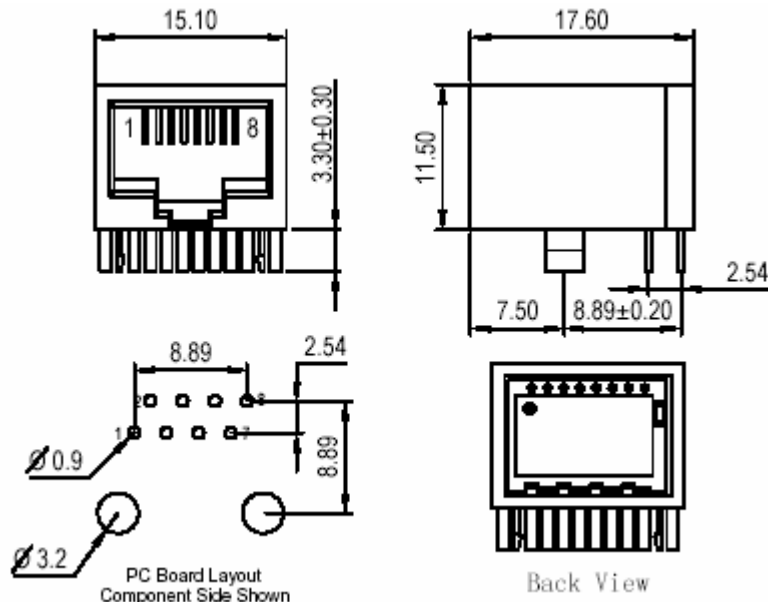
Web Site : www.coilmaster.com.tw

RJ3213F SERIES ~

RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

SCHEMATICS

Single Small Module

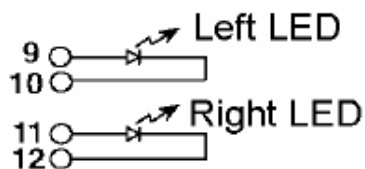


RoHS Compliant

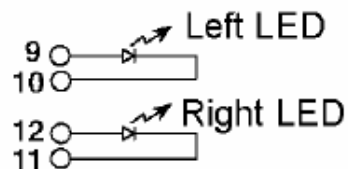
Dimensions: m/m all tolerances are ± 0.25

LED Configuration

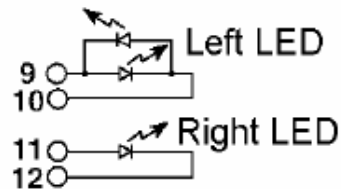
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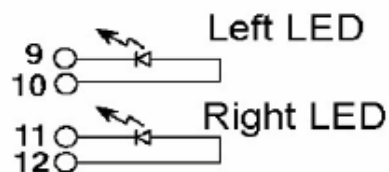
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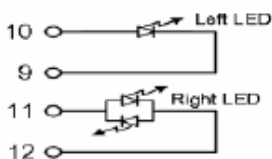
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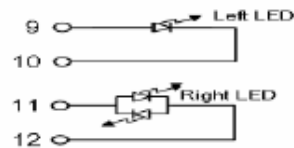
4



5



6



$V_{in} = 2.1Vdc$ TYP. $2.5Vdc$ MAX.



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RJ3213F SERIES ~

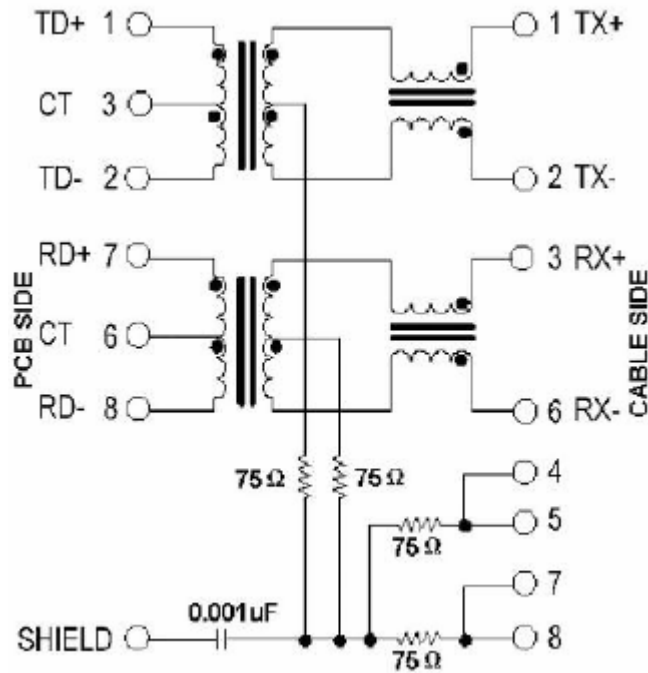
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

SCHEMATICS

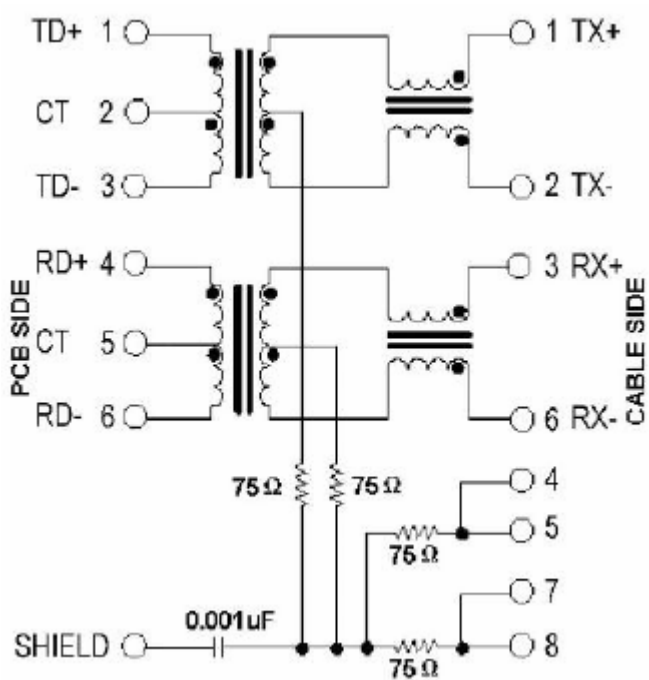


RoHS Compliant

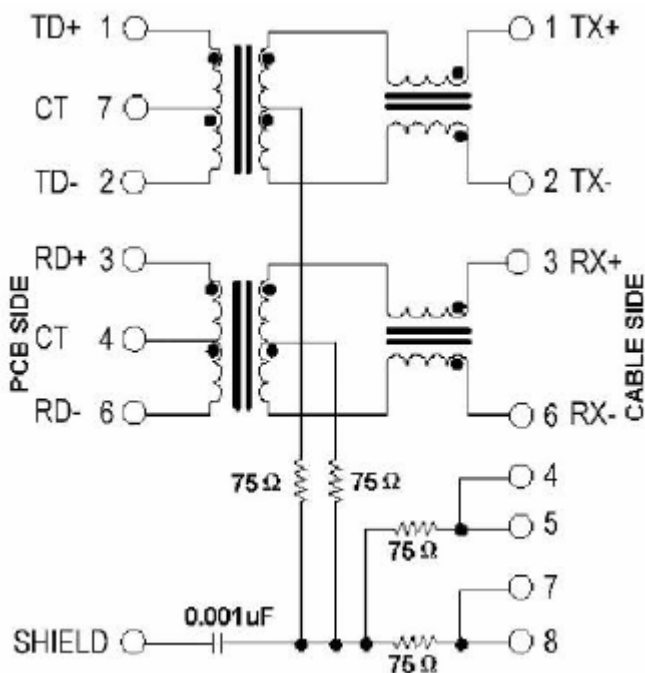
RJ3213F-60



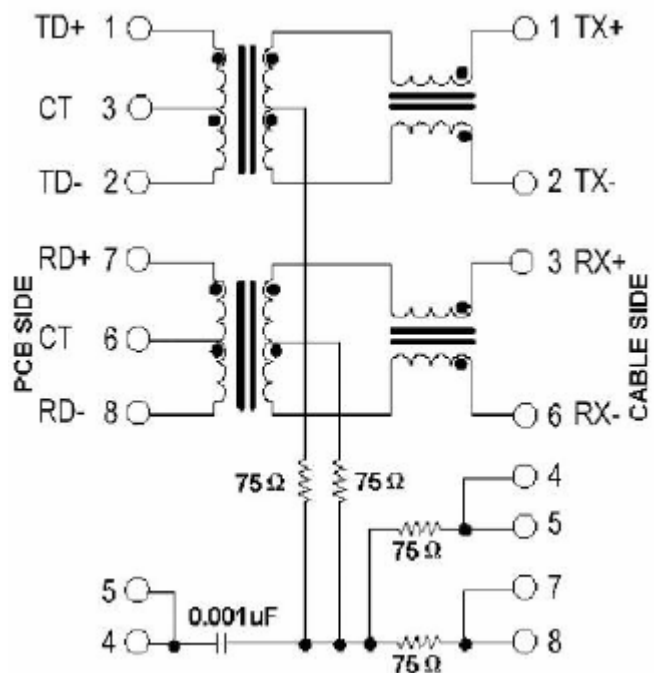
RJ3213F-60A



RJ3213F-60C



RJ3213F-60F





RJ3213F SERIES ~

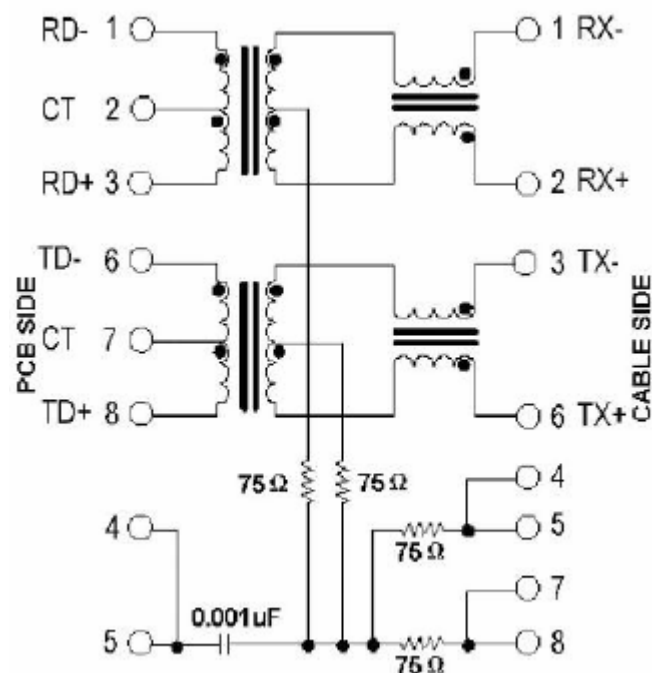
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

SCHEMATICS

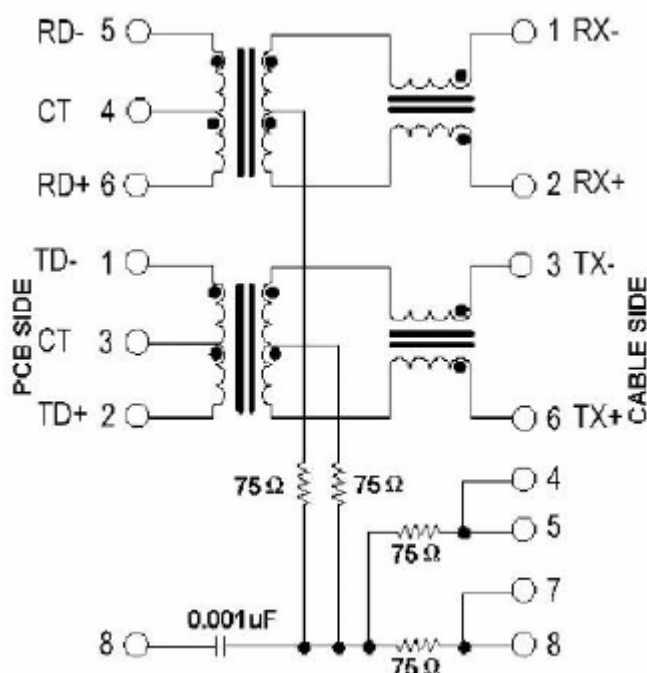


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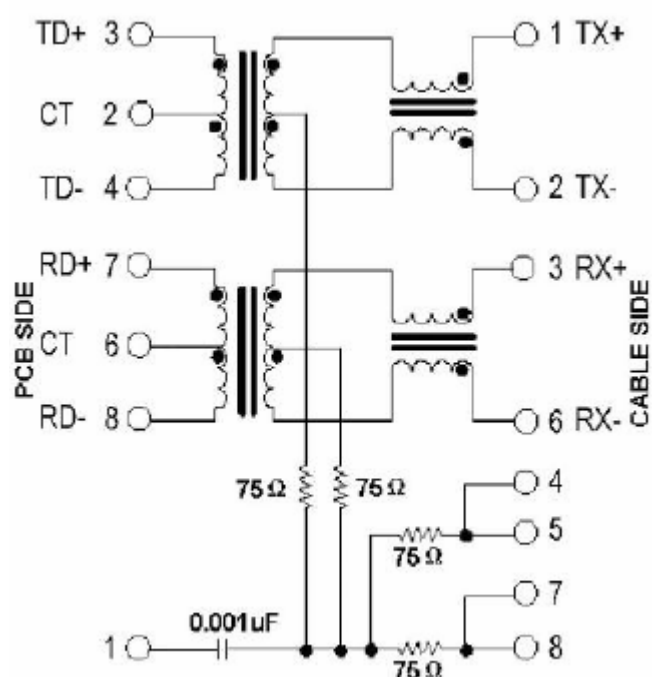
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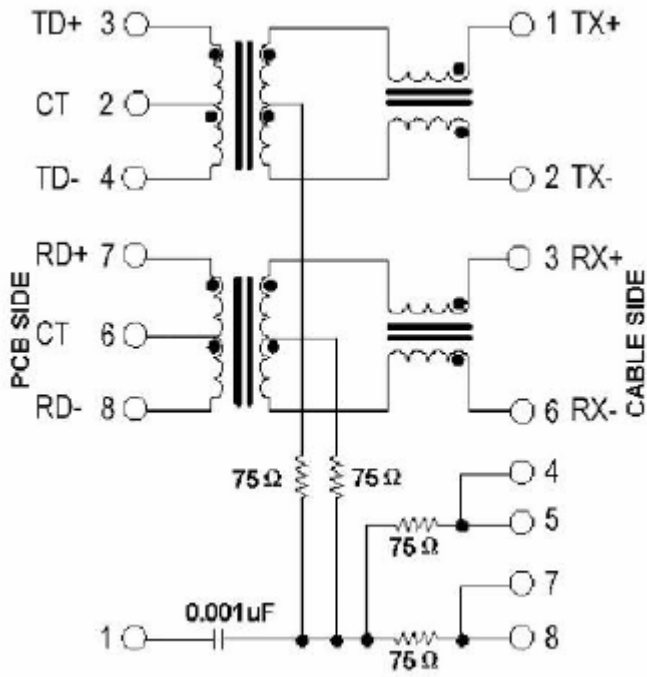
RJ3213F-60I



RJ3213F-60J



RJ3213F-60K



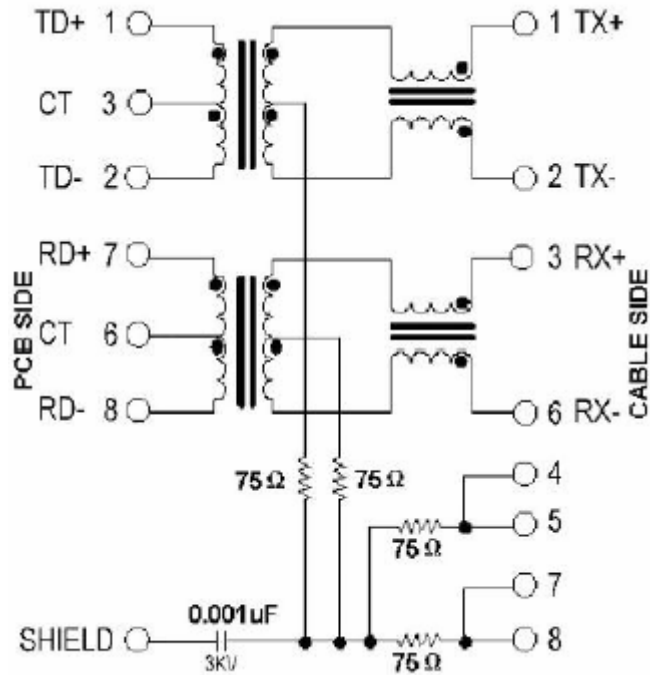


RJ3213F SERIES ~

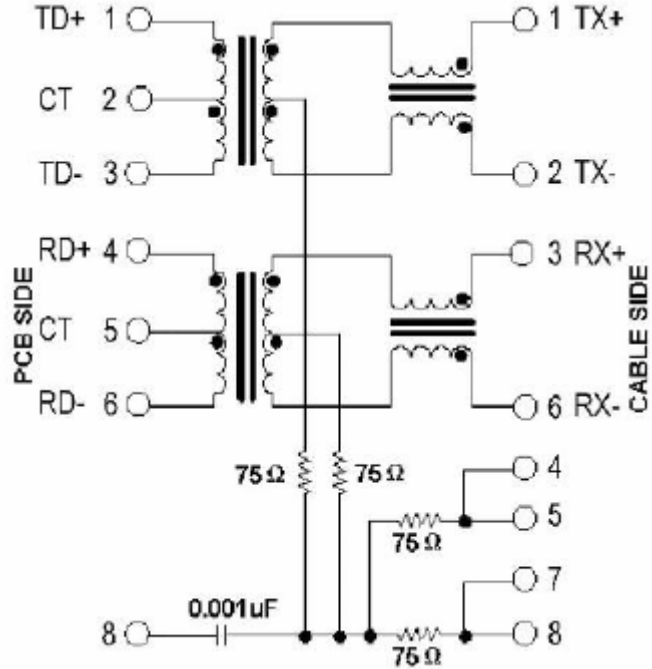
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

SCHEMATICS

RJ3213F-60V

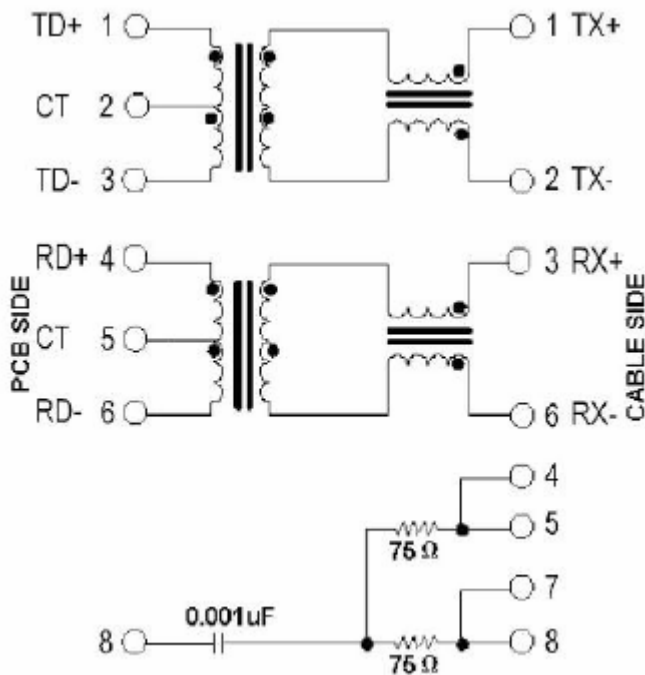


RJ3213F-61

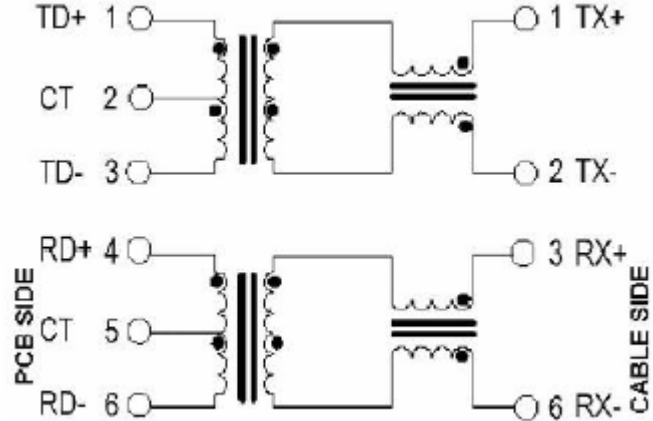


RoHS Compliant

RJ3213F-61A



RJ3213F-61H





RJ3213F SERIES ~

RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

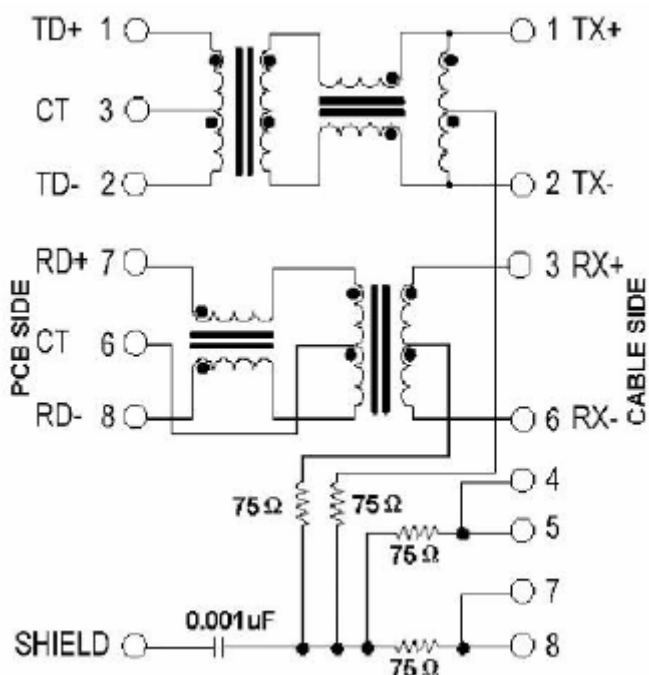
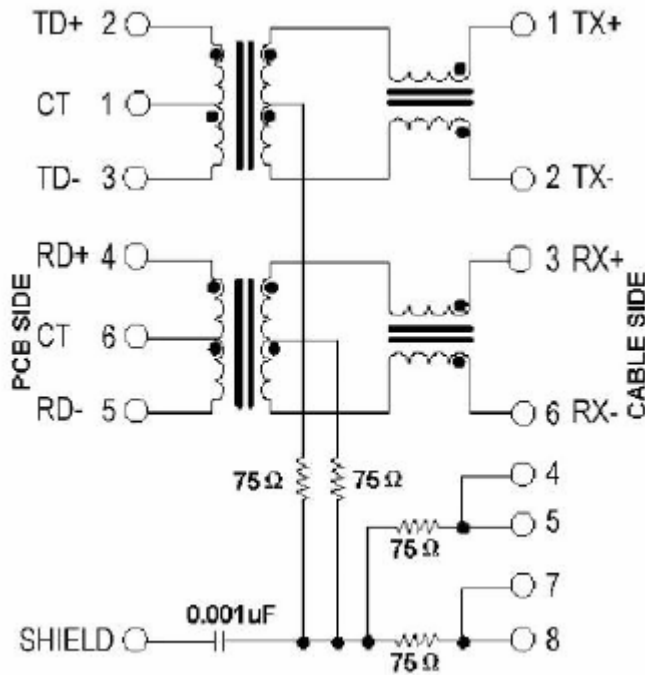
SCHEMATICS



RoHS Compliant

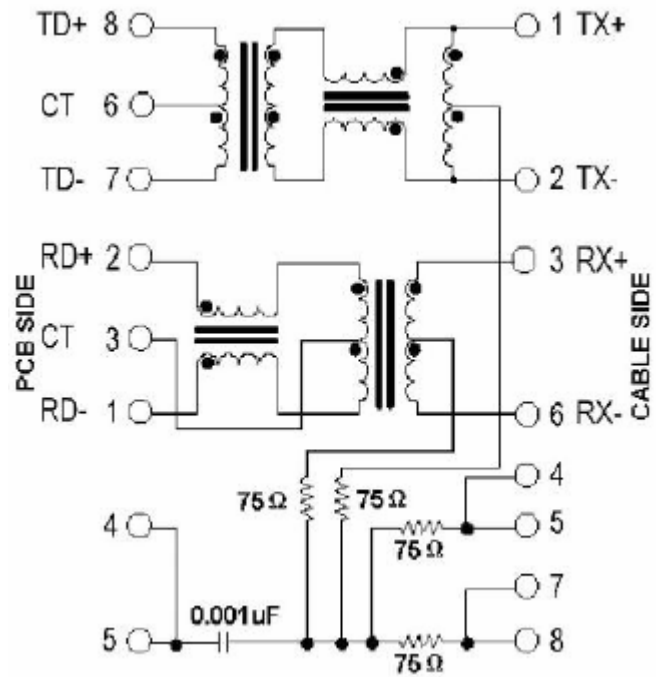
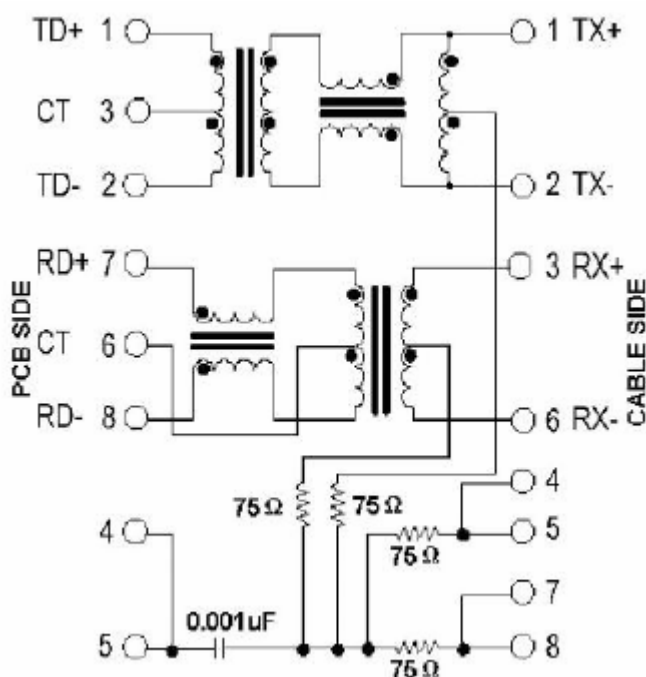
RJ3213F-61J

RJ3213F-62



RJ3213F-62A

RJ3213F-62C





RJ3213F SERIES ~

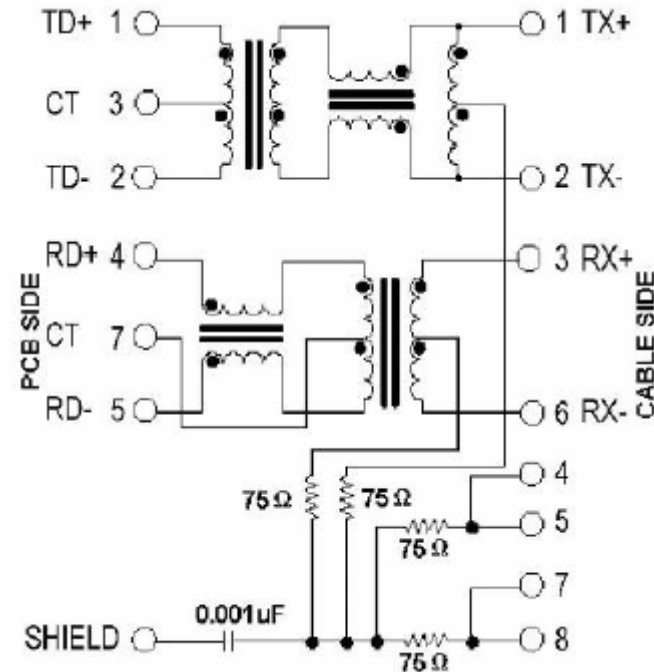
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

SCHEMATICS

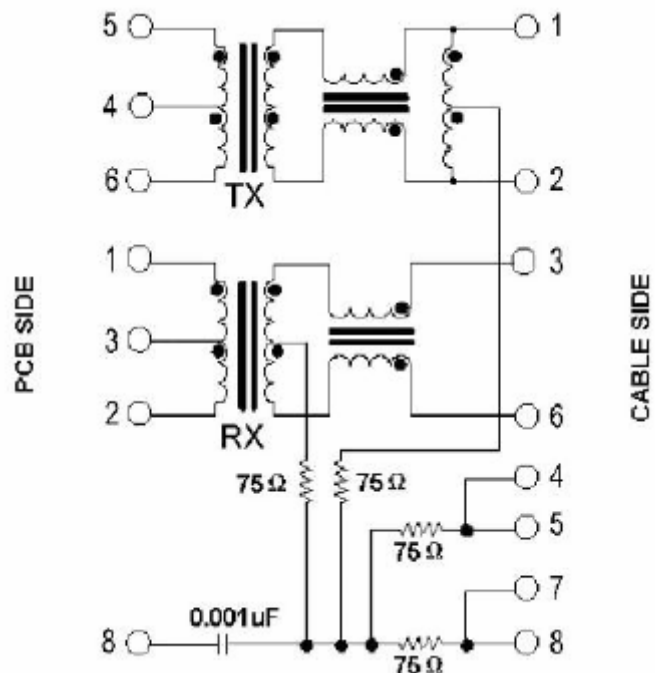


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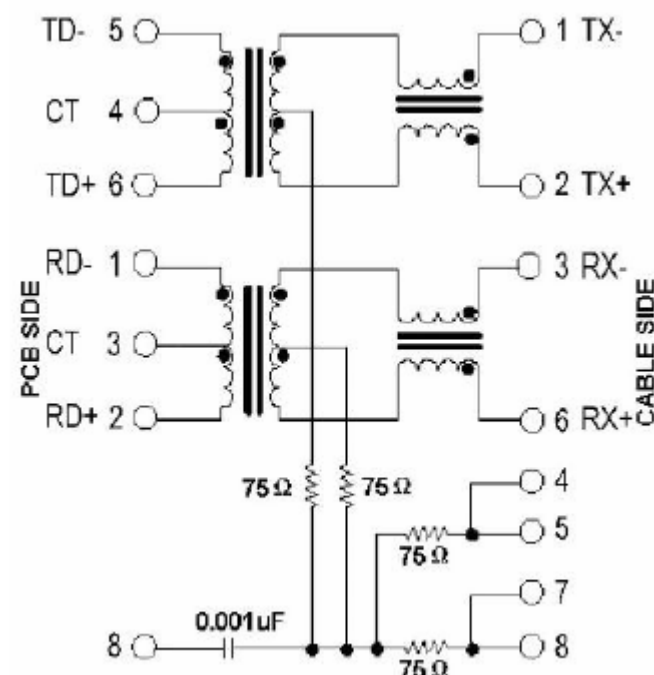
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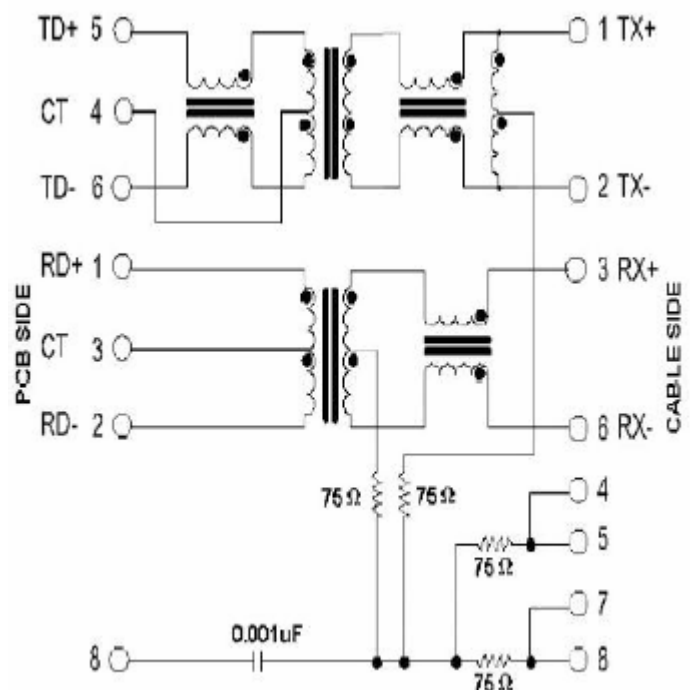
RJ3213F-62G



RJ3213F-62H



RJ3213F-62I



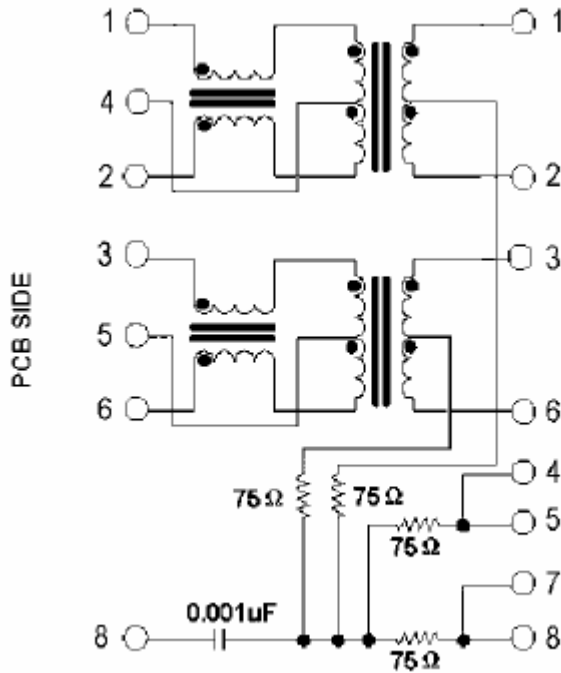


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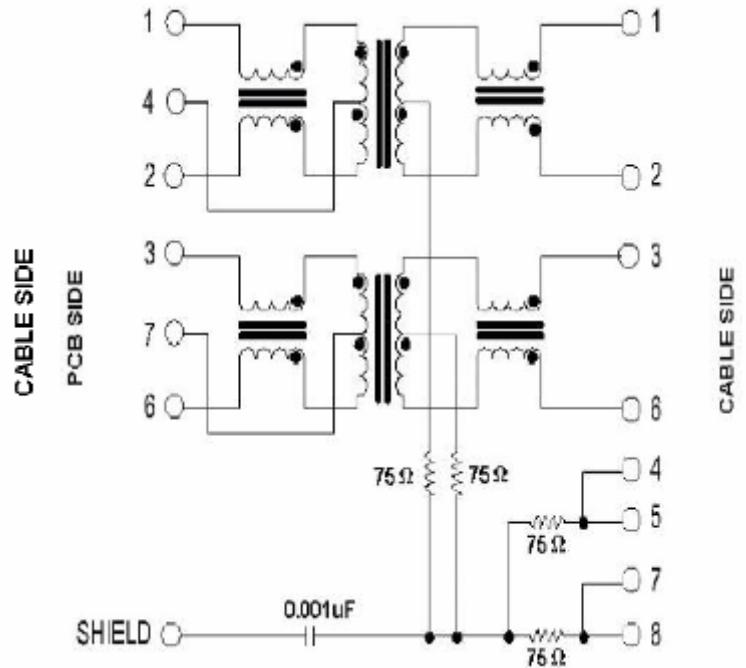
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

SCHEMATICS

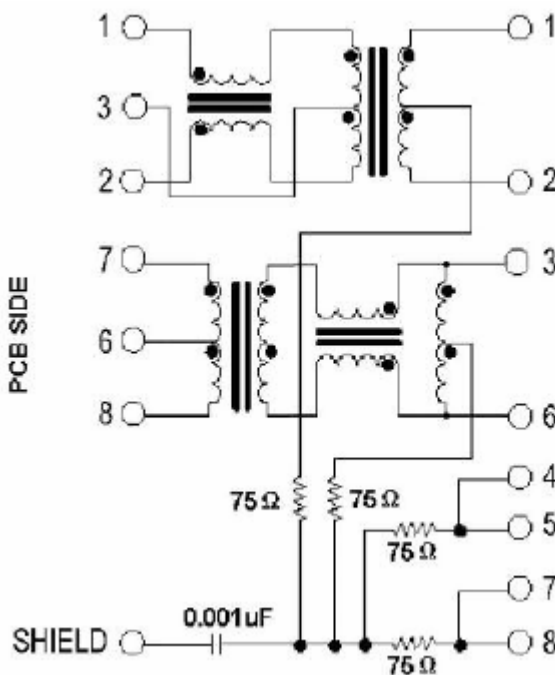
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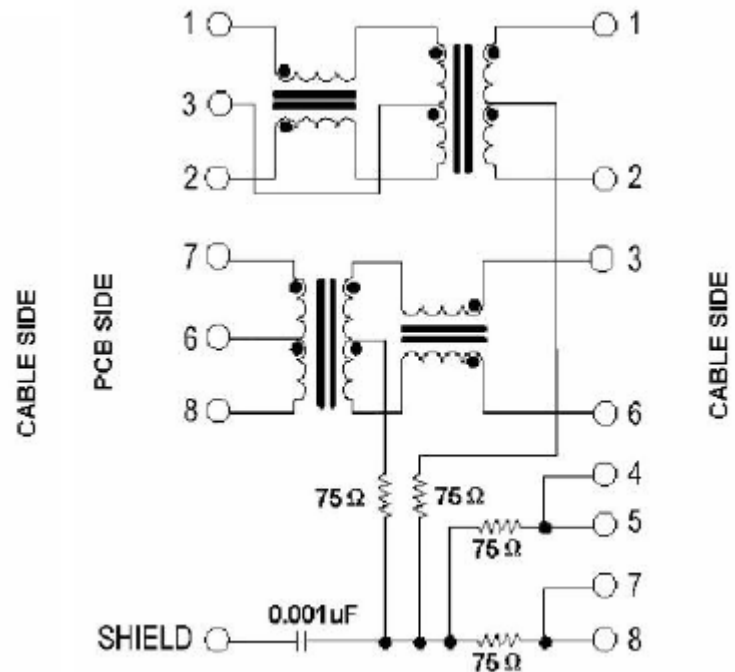
RJ3213F-62K



RJ3213F-62L



RJ3213F-62M



RoHS Compliant



RJ3213F SERIES ~

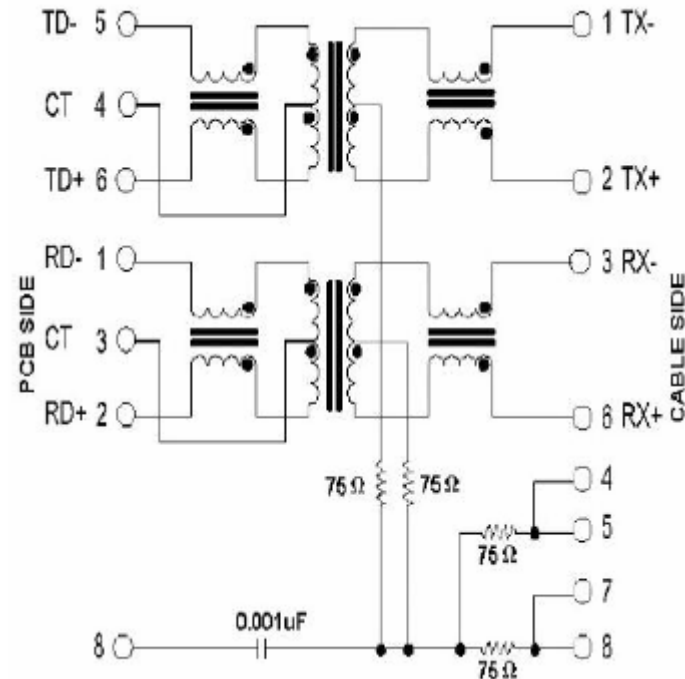
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE



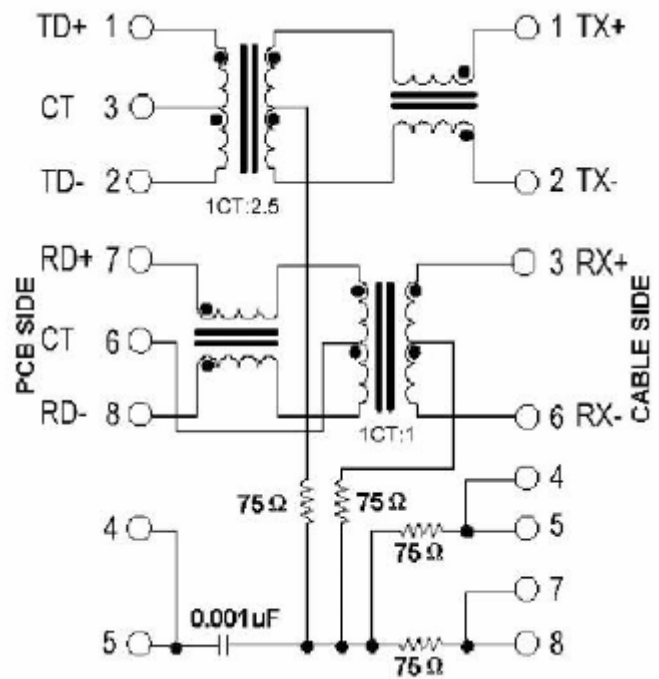
RoHS Compliant

SCHEMATICS

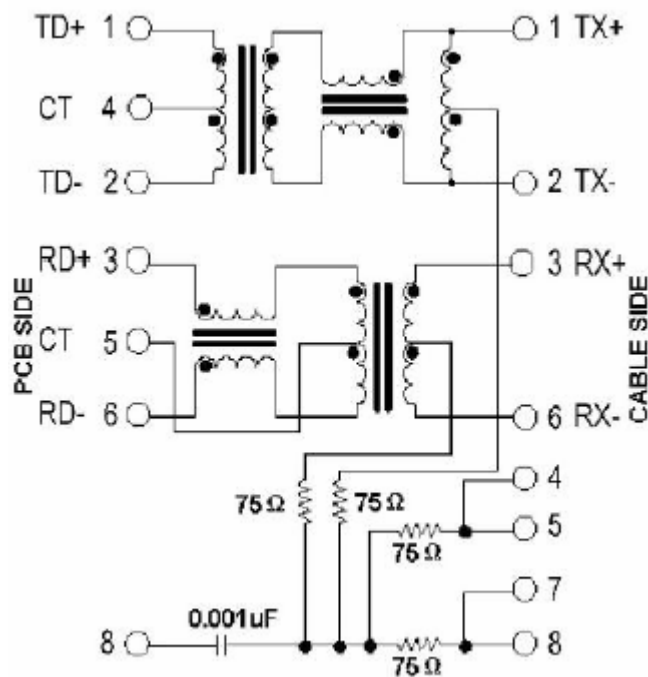
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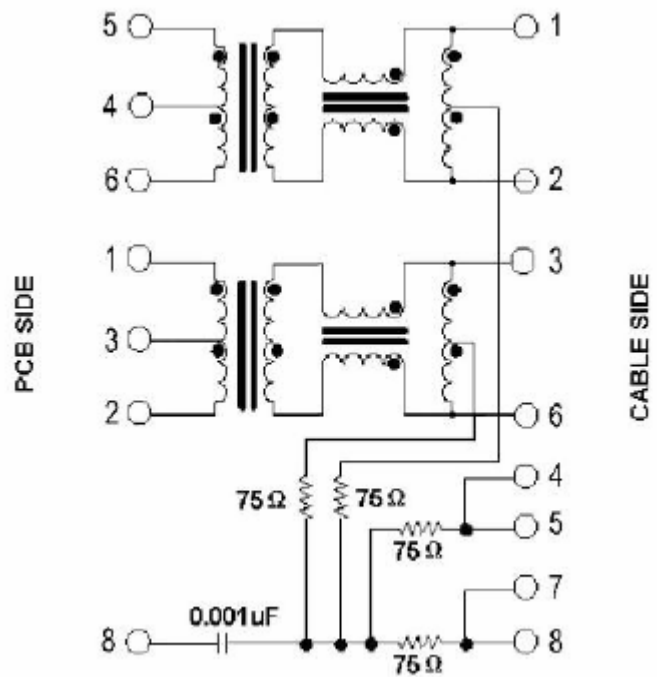
RJ3213F-62P



RJ3213F-62Q



RJ3213F-62T





RJ3213F SERIES ~

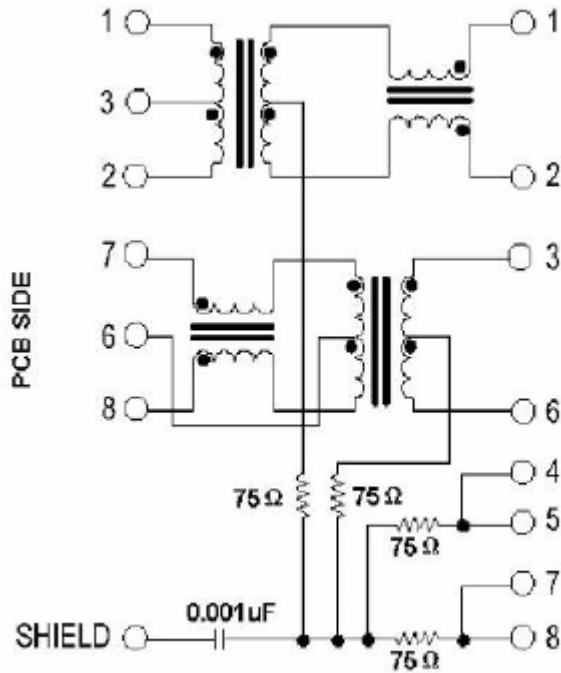
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

SCHEMATICS

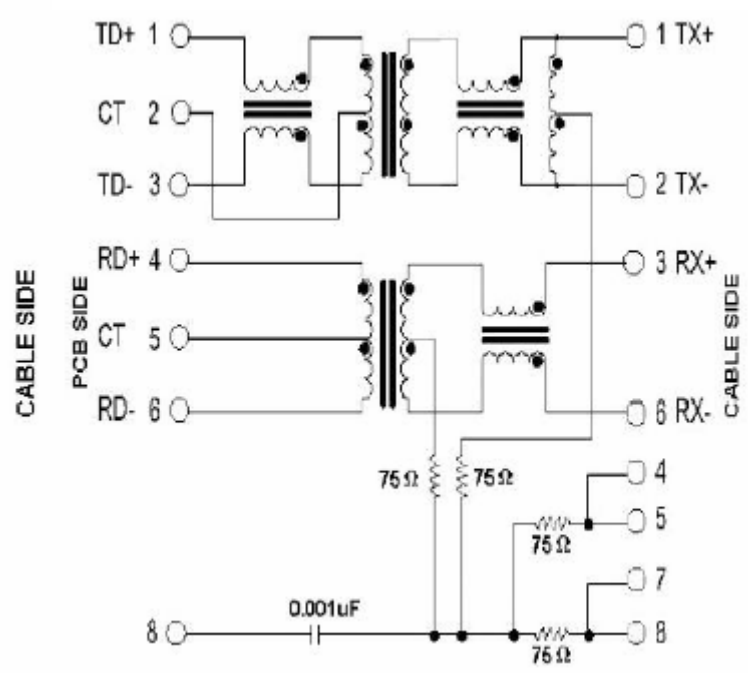


RoHS Compliant

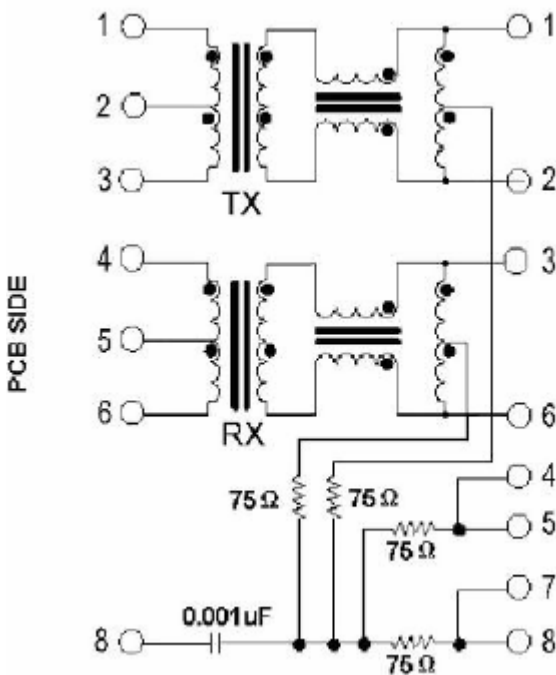
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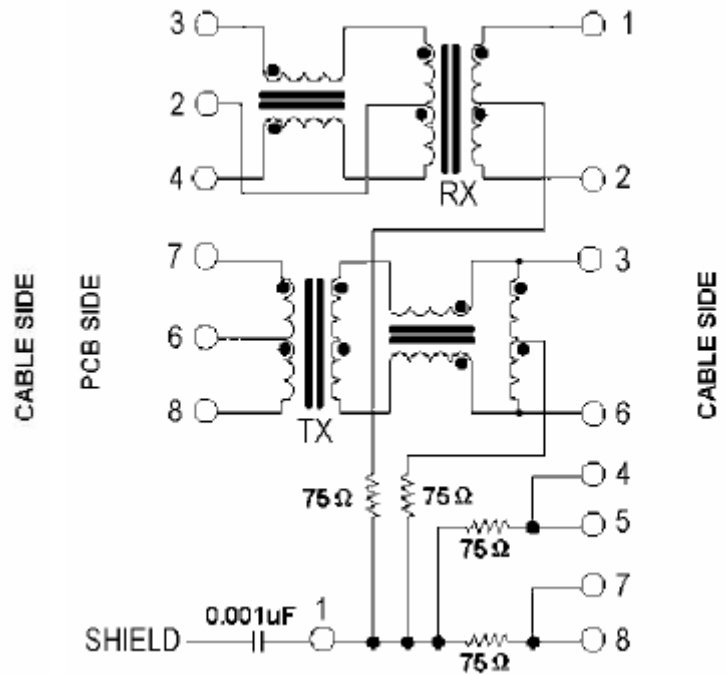
RJ3213F-62W



RJ3213F-62X



RJ3213F-62Z





RJ3213F SERIES ~

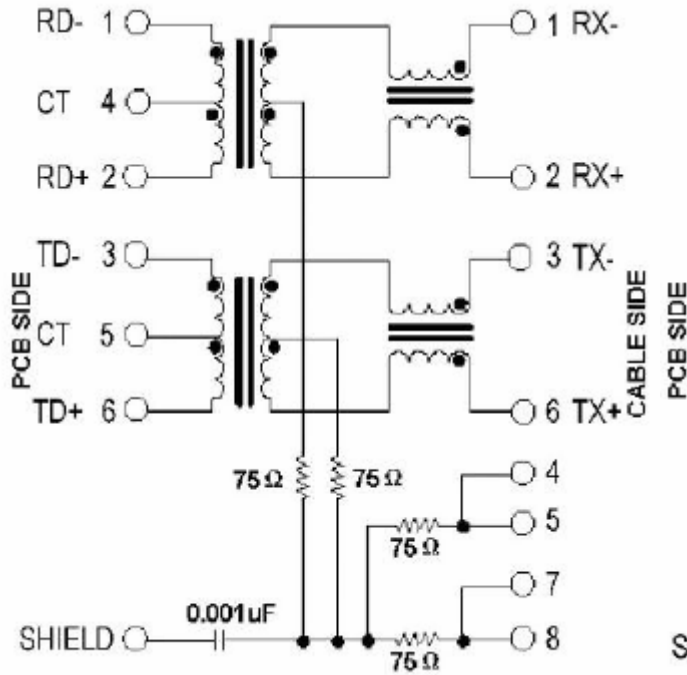
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE



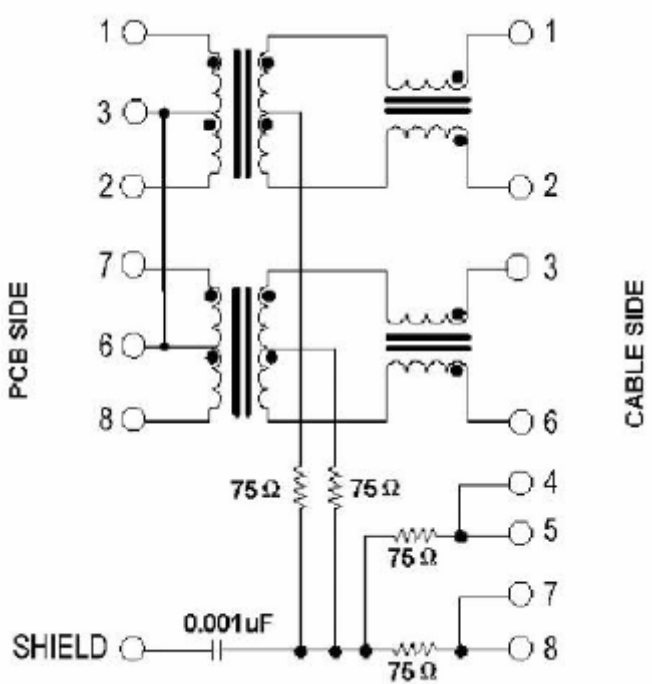
RoHS Compliant

SCHEMATICS

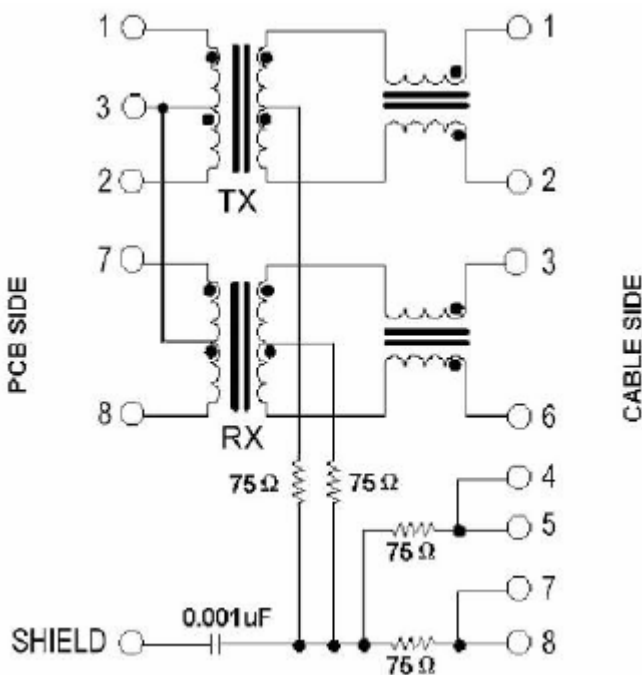
RJ3213F-63A



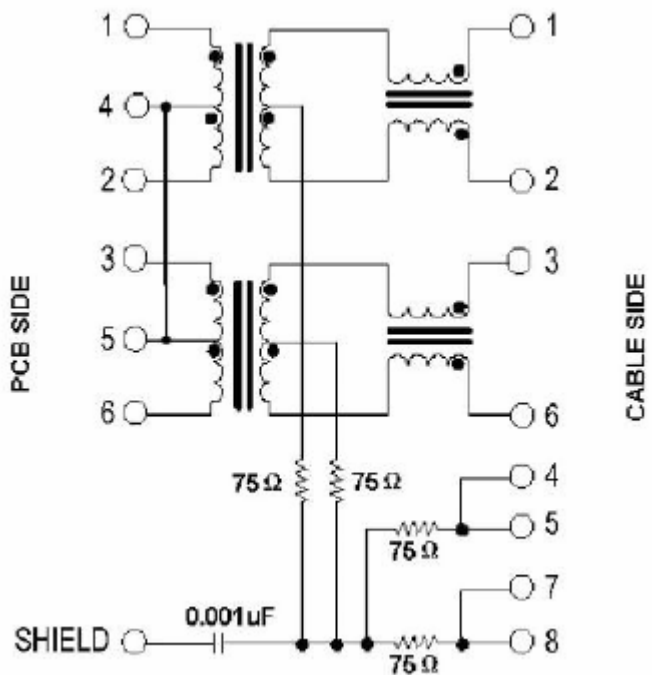
RJ3213F-63B



RJ3213F-63C



RJ3213F-63F





RJ3213F SERIES ~

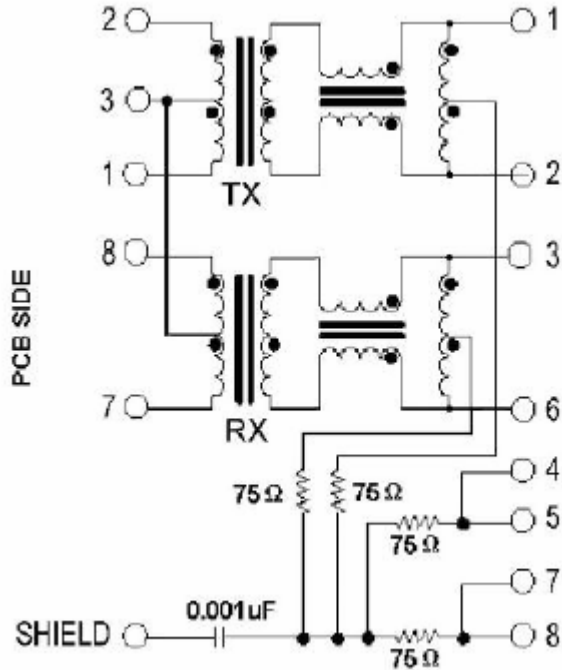
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

SCHEMATICS

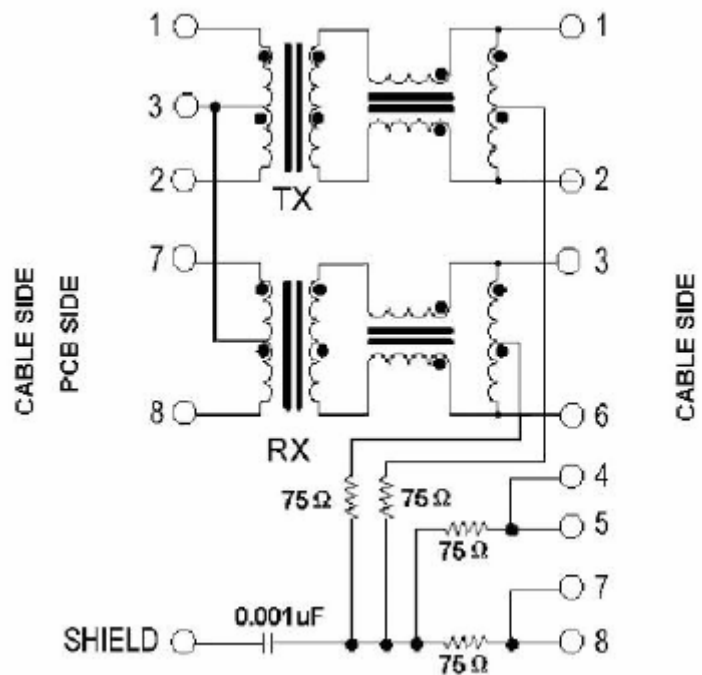


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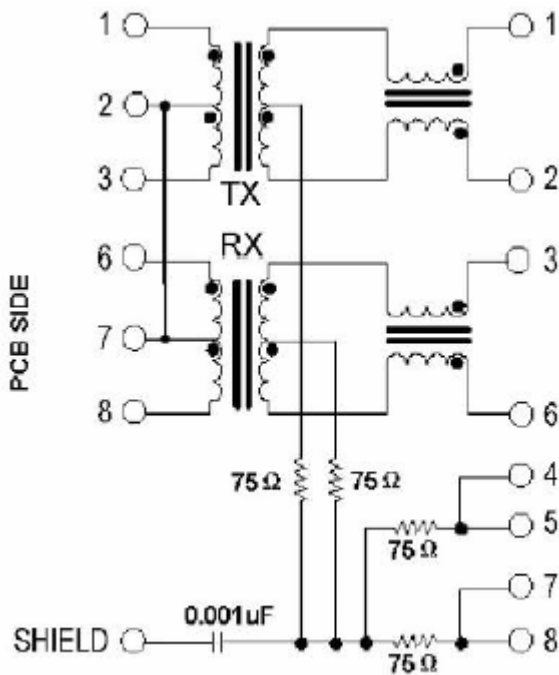
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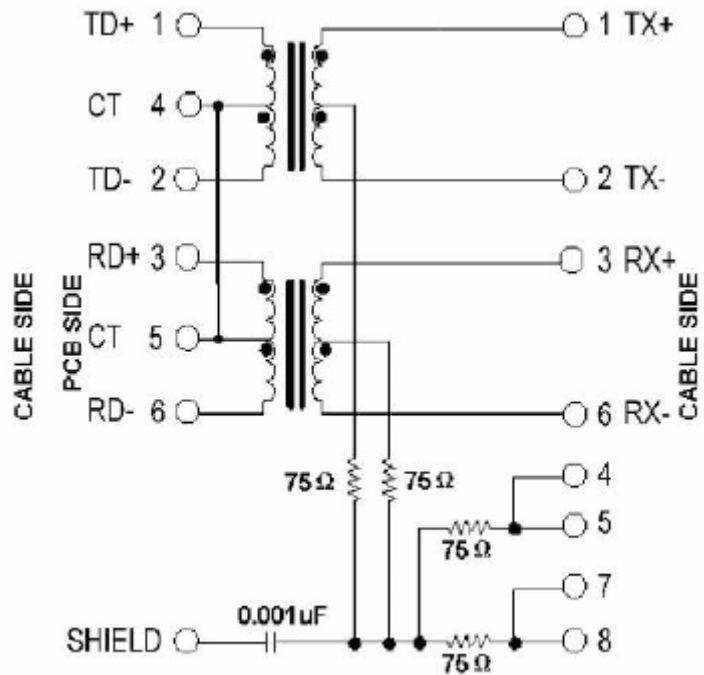
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RJ3213F-63J



RJ3213F-63K



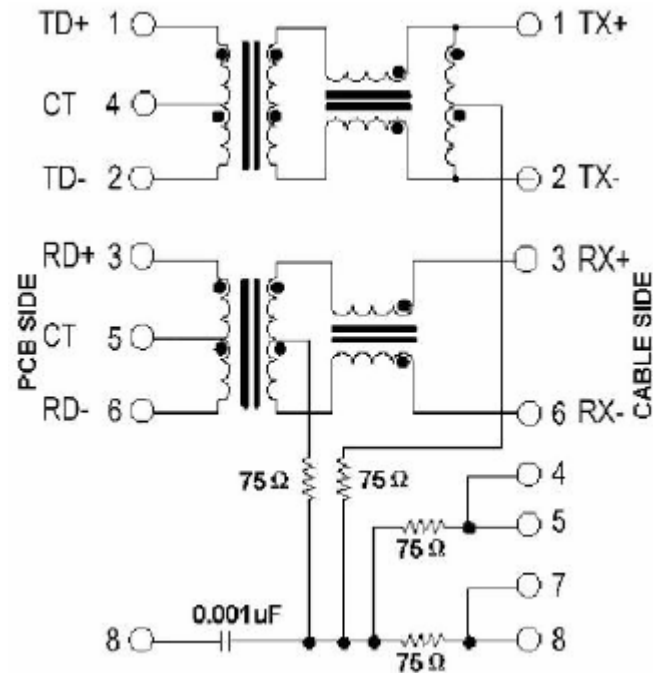


RJ3213F SERIES ~

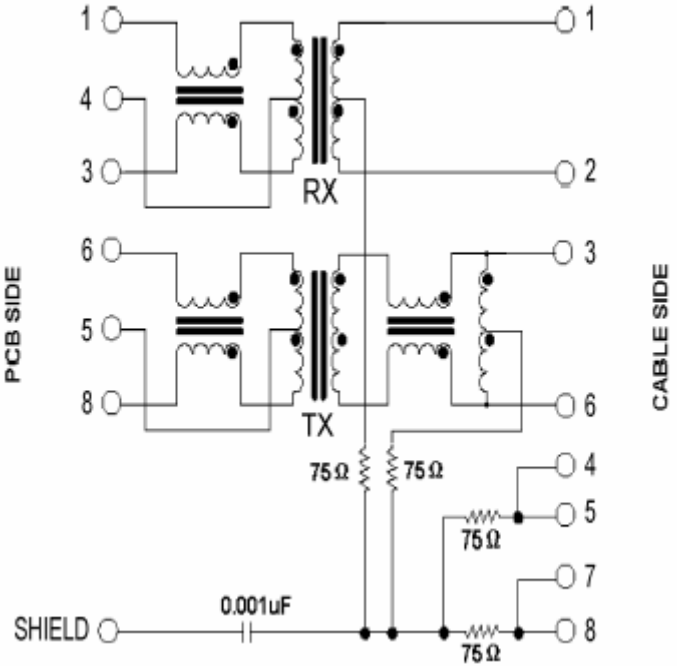
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

SCHEMATICS

RJ3213F-64B

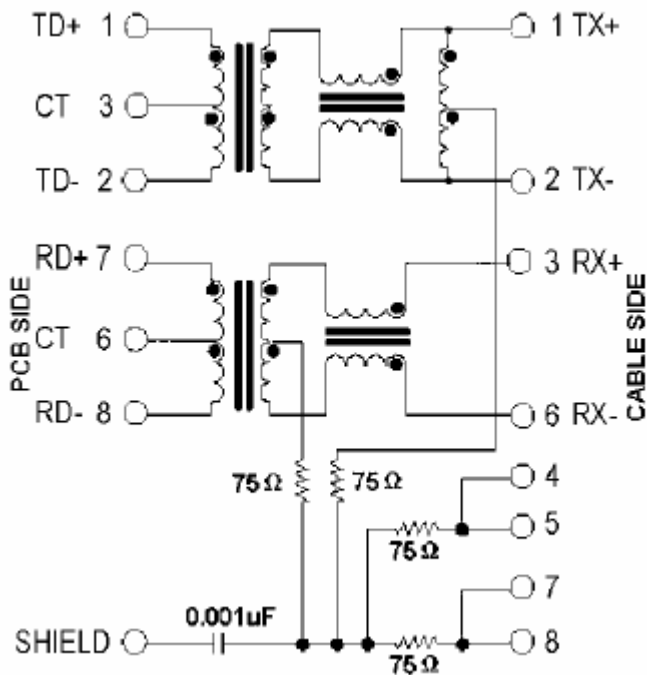


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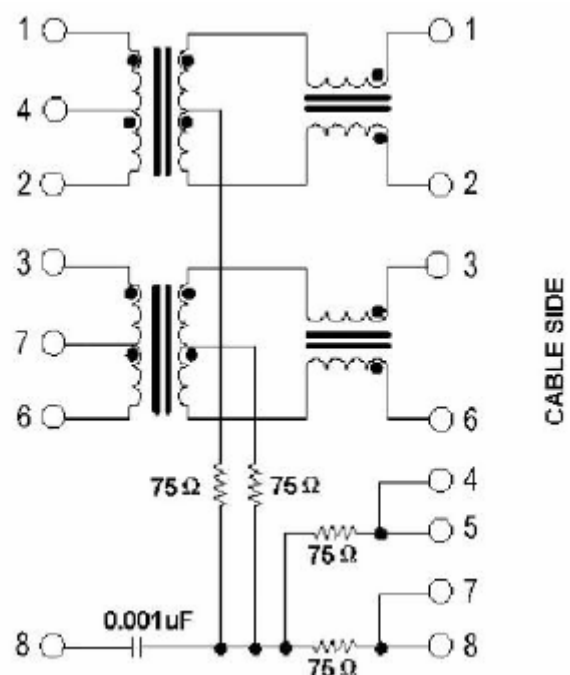


RoHS Compliant

RJ3213F-64K



RJ3213F-65





RJ3213F SERIES ~

RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

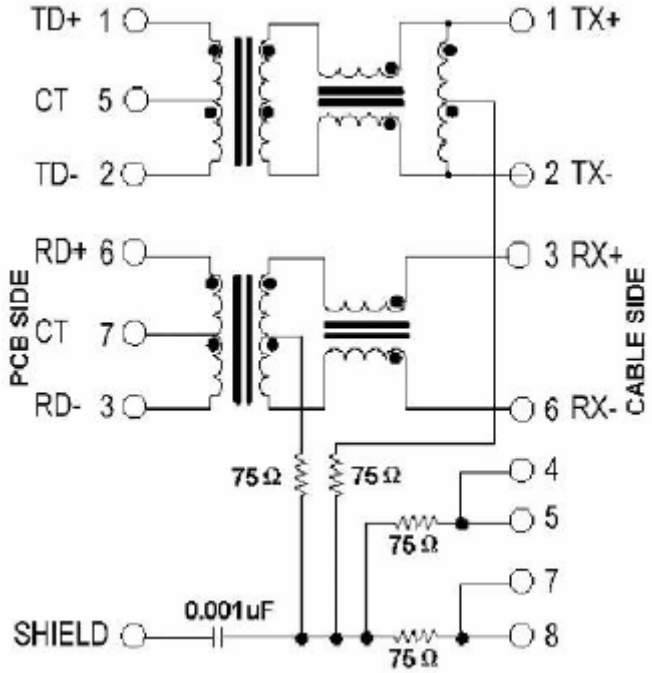
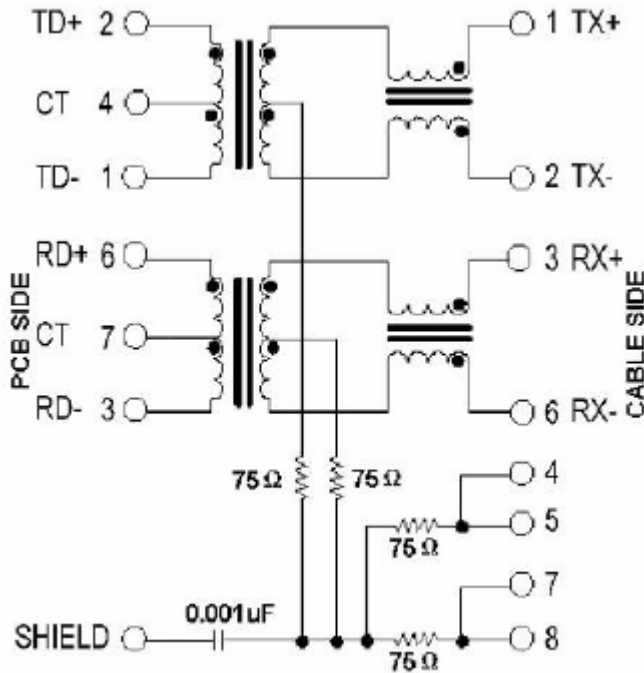
SCHEMATICS



RoHS Compliant

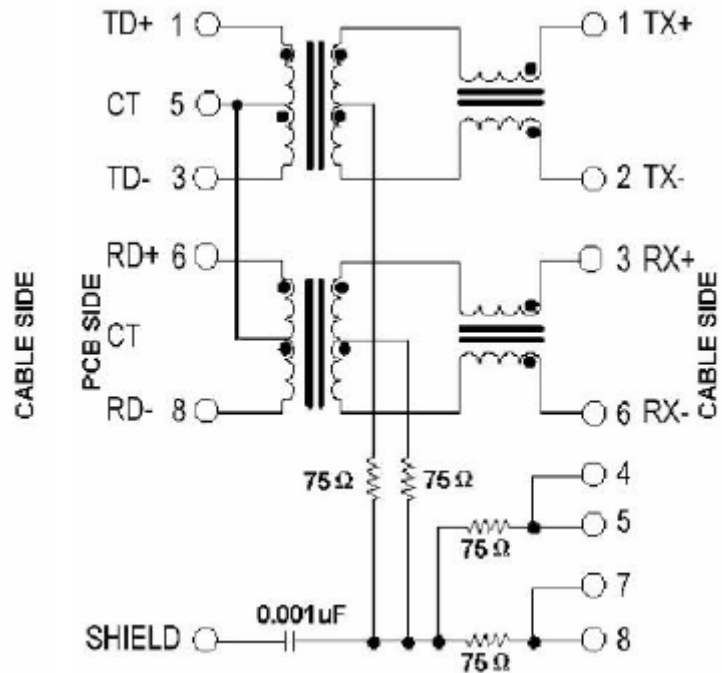
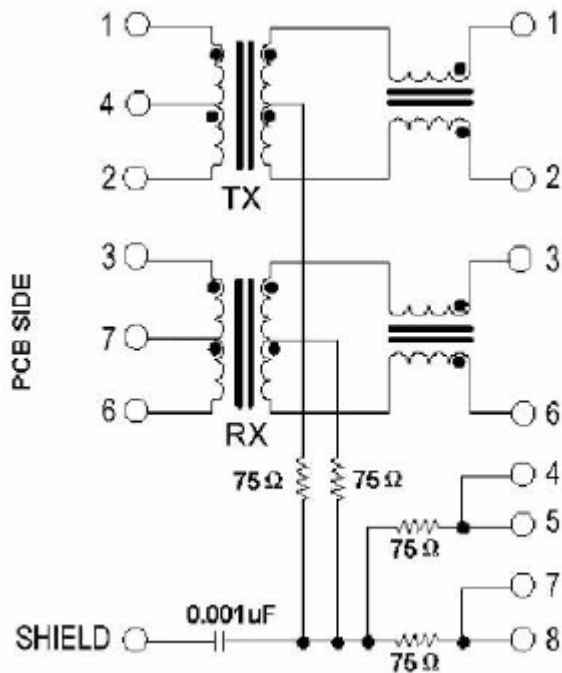
RJ3213F-66

RJ3213F-66A



RJ3213F-66B

RJ3213F-67A



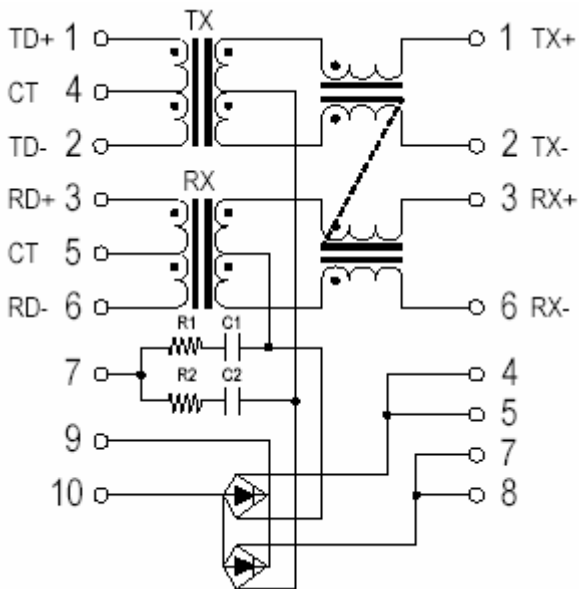


RJ3213F SERIES ~

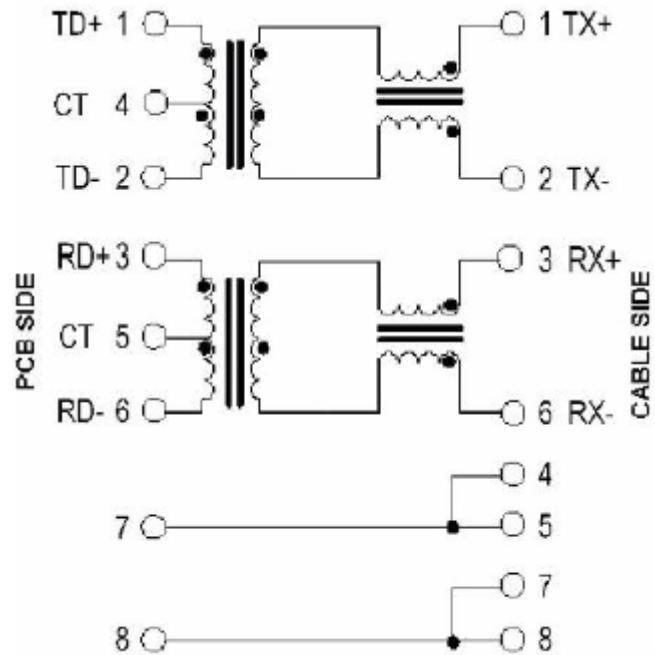
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

SCHEMATICS

RJ3213F-67B



RJ3213F-69



RoHS Compliant

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



Coilmaster Electronics Co., Ltd.

PART NUMBERING SYSTEM

RJ32	—	XXXX	—	X	—	X	—	LF
Type		Model		Mechanical		LED table		Lead Free

FEATURES

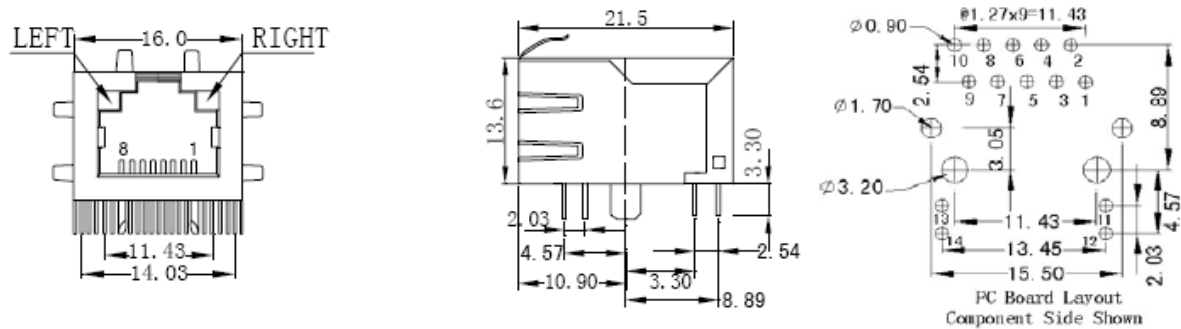
- 1x1 Tab-UP 0.85' and 1' long with internal magnetics for 10/100/1000 Base-TX
- Internal magnetics options available
- 350uH minimum OCL with 8mA bias current
- For RoHS Compliant parts add suffix LF
- **RoHS compliant peak solder rating 235°C**



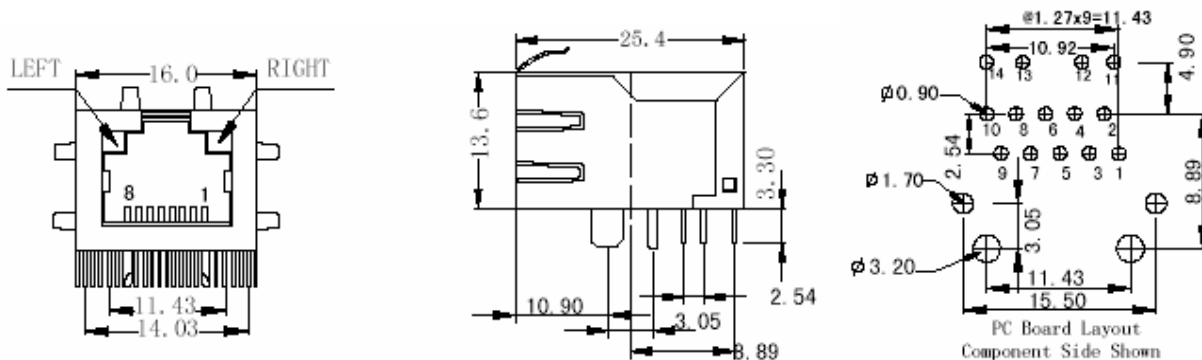
RoHS Compliant

SHAPES AND DIMENSIONS

Mechanicals : RJ32-1630XA-LF, X=1,2,



Mechanicals : RJ32-17302A-LF



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

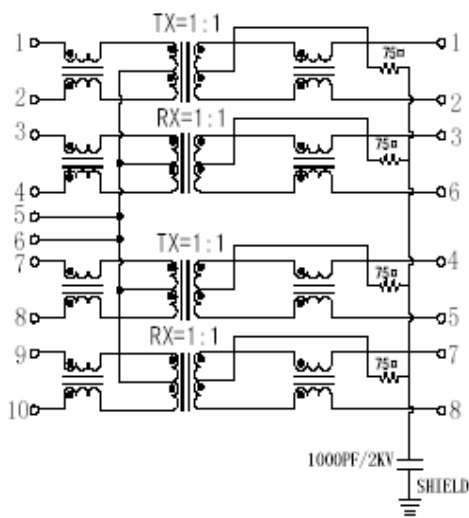


Coilmaster Electronics Co., Ltd.

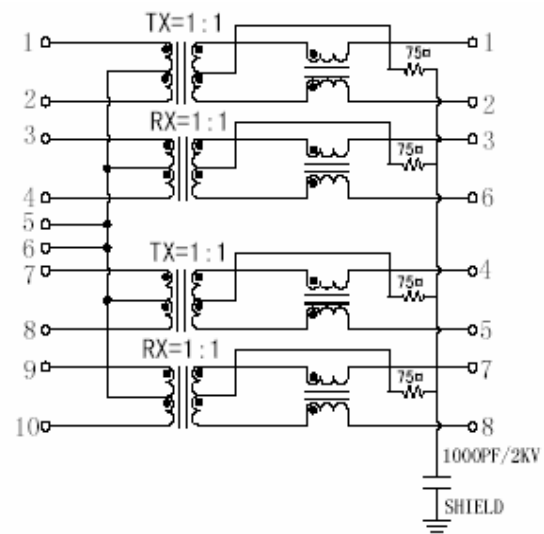


RoHS Compliant

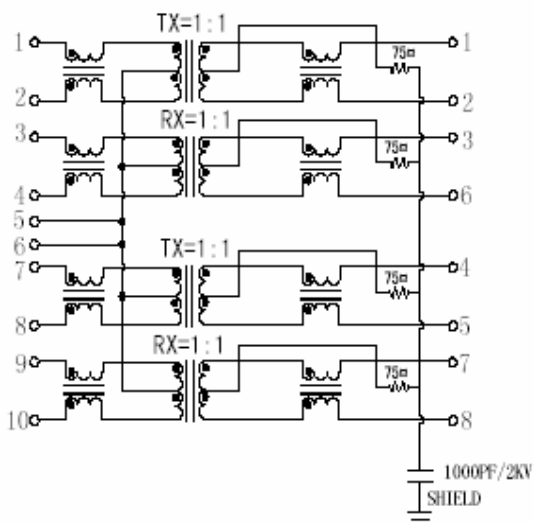
RJ32-16301-LF



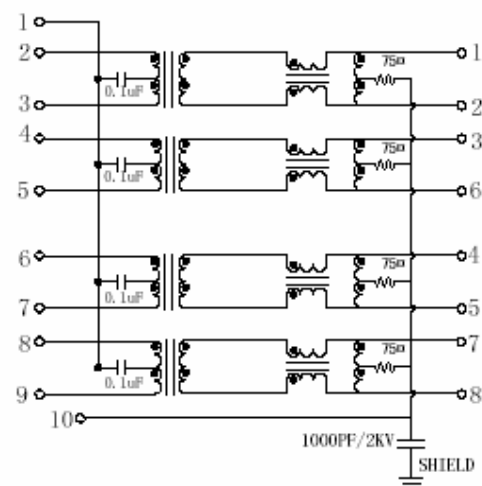
RJ32-16302-LF



RJ32-16303-LF



RJ32-17302-LF



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



Coilmaster Electronics Co., Ltd.

FEATURES

- 1x1 Tab-UP 0.85'and 1' long with internal magnetics for 10/100/1000 Base-TX
- Internal magnetics options available
- 350uH minimum OCL with 8mA bias current
- For RoHS Compliant oarts add suffix LF
- **RoHS compliant peak solder rating 235°C**



RoHS Compliant

ELECTRICAL CHARACTERISTICS @ 25°C --- Operating Temperature 0°C to 70°C

PART NUMBER	Turns Ratios		Insertion Loss (dB Min)	Return loss (dB Typ) @100Ω				Crosstalk MHz(dB Typ)			Common Mode Rejection (XMIT) (dB Min)			Hipot (Vrms Min)
	TX	RX		0.3-100MHz	1-30MHz	40MHz	50MHz	60-80MHz	30MHz	60MHz	100MHz	5MHz	10MHz	50MHz
RJ3216301A-LF	1:1	1:1	-1.2	-16	-13.5	-12	-10	-40	-36	-30	-35	-32	-30	1500
RJ3216302A-LF	1:1	1:1	-1.2	-16	-13.5	-12	-10	-40	-36	-30	-35	-32	-30	1500
RJ3216303A-LF	1:1	1:1	-1.2	-16	-13.5	-12	-10	-40	-36	-30	-35	-32	-30	1500
RJ3217302A-LF	1:1	1:1	-1.2	-16	-13.5	-12	-10	-40	-36	-30	-35	-32	-30	1500

PART NUMBERING SYSTEM

RJ32 — **19201** — **X** — **X** — **LF**
Type Model Mechanical LED table Lead Free

(1) RJ32 Series Mechanical :

A	With LED and 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	Y	G	
H	G	Y	



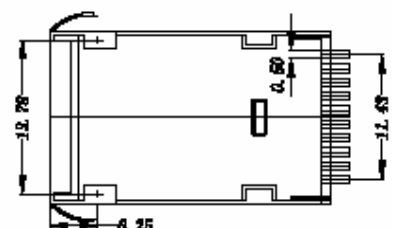
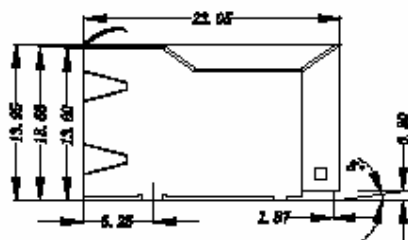
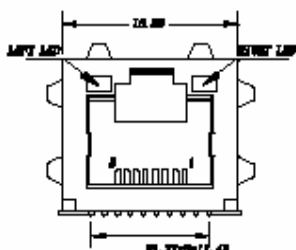
FEATURES

1. Available in **Tape & Reel** format
2. SMT product available with or without LEDs
3. Internal magnetics : 100% electrically tested for Hi-Pot & continuity
4. For RoHS part add suffix LF
5. **RoHS compliant peak solder rating 235°C**

SHAPES AND DIMENSIONS

Mechanicals A : With LED and EMI-Finger

A



Surface Mount 1X1 Tab-Up RJ45 Jack With 10/100 Magnetics



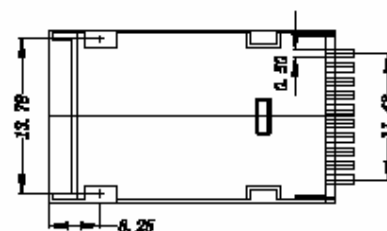
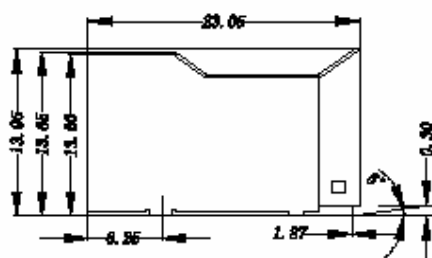
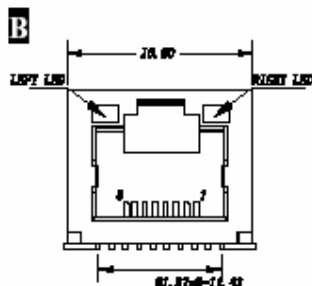
Coilmaster Electronics Co., Ltd.

SHAPES AND DIMENSIONS

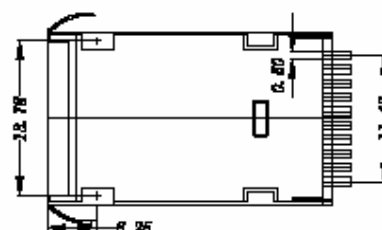
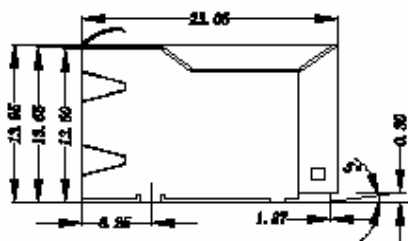
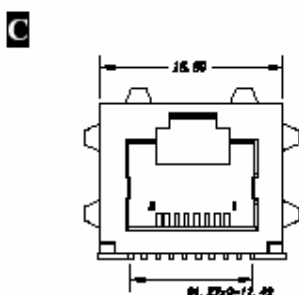


RoHS Compliant

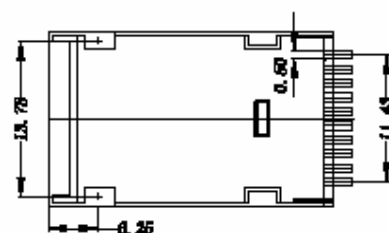
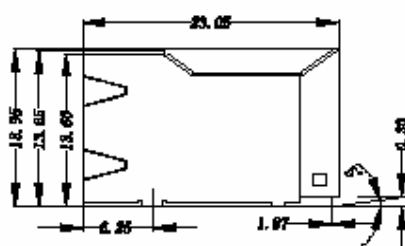
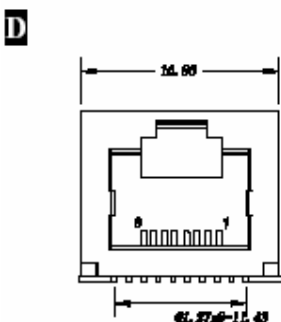
Mechanicals B : With LED and Non EMI-Finger



Mechanicals C : Without LED with EMI-Finger



Mechanicals D : Without LED and EMI-Finger

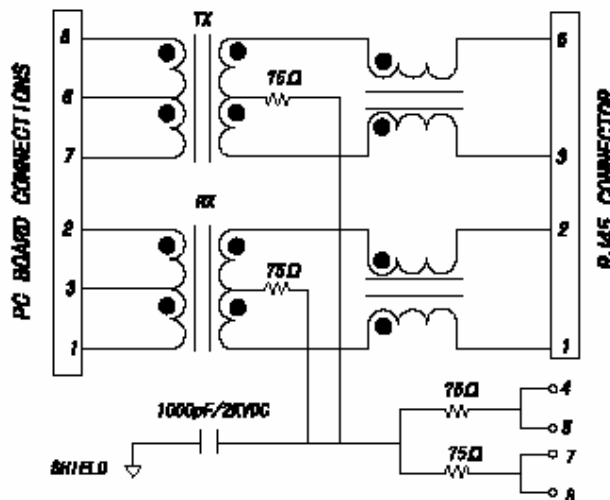


Surface Mount 1X1 Tab-Up RJ45 Jack With 10/100 Magnetics



Coilmaster Electronics Co., Ltd.

Schematics



FEATURES

1. Available in **Tape & Reel** format
2. SMT product available with or without LEDs
3. Internal magnetics : 100% electrically tested for Hi-Pot & continuity
4. For RoHS part add suffix LF
5. **RoHS compliant peak solder rating 235°C**

ELECTRICAL CHARACTERISTICS @ 25°C --- Operating Temperature 0°C to 70°C

PART NUMBER	Turns Ratios		Insertion Loss (dB Max.)		Return loss (dB Min @ 100Ω) MHz		Crosstalk (dB Min) MHz	Hipot (Vrms Min)
	TX	RX	1-180MHz	100MHz	1-60	60-100	1-80	
RJ32-19201-LF	1CT:1	1CT:1	-1.0	-1.2	-14	-10	-40	1500



RJ3244F SERIES ~

THROUGH HOLE RJ45/DUAL USB JACK WITH 10/100 MAGNETIC



RoHS Compliant

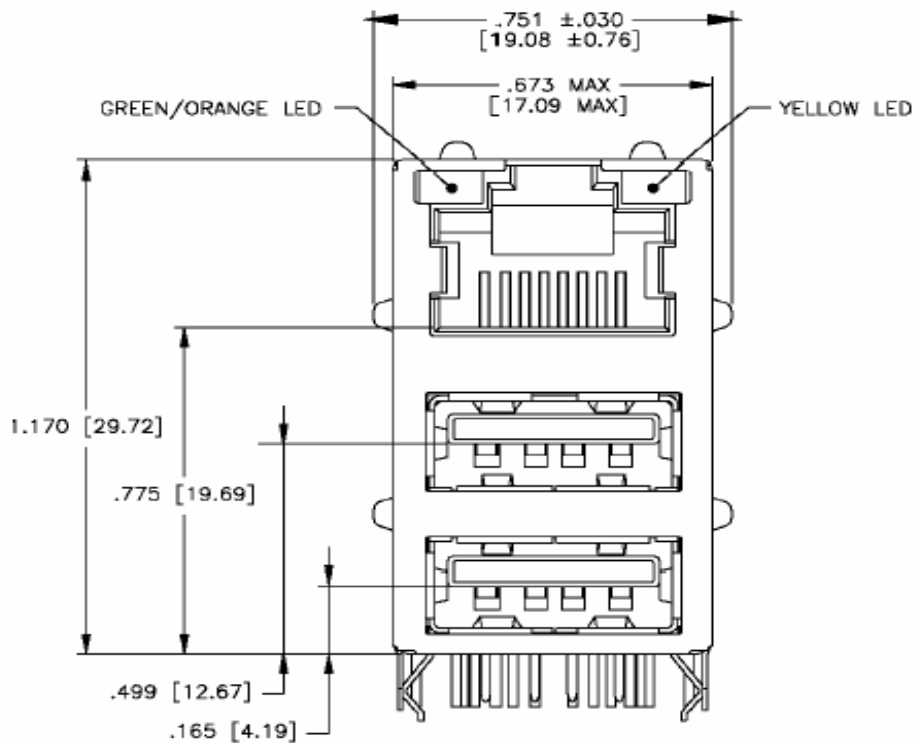
FEATURES

- LAN interface suitable for 10/100Base-TX applications
- RJ45/USB stacked design saves on PCB real estate
- USB module complies with USB 2.0 standards and meets CAT5 Fast Ethernet industry performance standard
- Magnetics are 100% electrically tested for HI-POT and continuity
- Meets or exceeds IEEE 802.3 and ANSI X3.263 standards including 350uH minimum OCL with 8mA bias

ELECTRICAL SPECIFICATIONS

P/N	Turns Ratio		Data Rate	LEDs	Insertion Loss TX/RX	Return Loss			Common Mode Rejection		Cross Talk			Hipot
				L/R	(dB Typ.)	@100Ω±15Ω (dB Typ.)			(dB Typ.) MHz		(dB Typ.) MHz			Vrms
	TX	RX			1-65MHz	1~10	30	60~80	1-50	50-130	1-10	32-60	60-100	@60Hz
RJ3244F-10101DYG2-LF	1CT:1	1CT:1	10/100	G-O/Y	-1	-20	-16	-12	-30	-20	-40	-35	-30	1500

DIMENSIONS





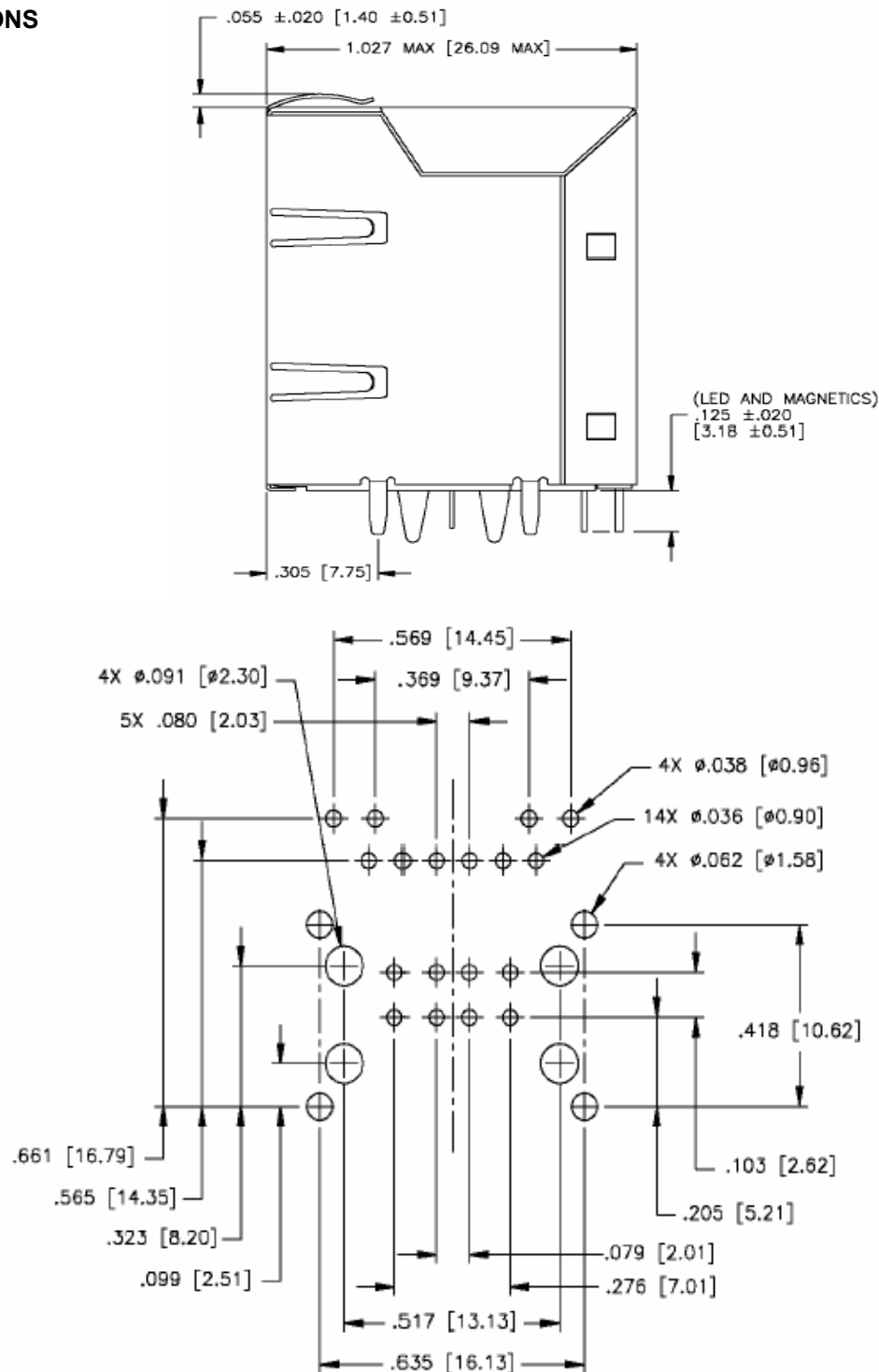
RJ3244F SERIES ~

THROUGH HOLE RJ45/DUAL USB JACK WITH 10/100 MAGNETIC

DIMENSIONS



RoHS Compliant



SUGGESTED FOOTPRINT (SHOWN FROM COMPONENT SIDE)

DIMENSIONAL TOLERANCE: INCHES [METRIC]

.XXX $\pm .003$ [X.XX ± 0.08]

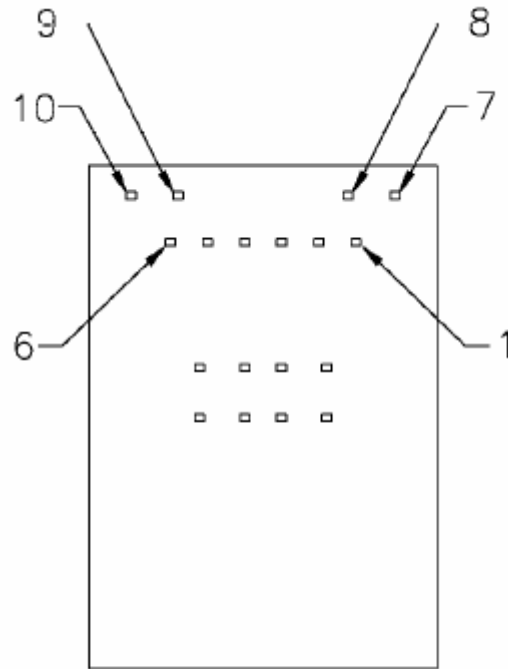


RJ3244F SERIES ~

THROUGH HOLE RJ45/DUAL USB JACK WITH 10/100 MAGNETIC DIMENSIONS

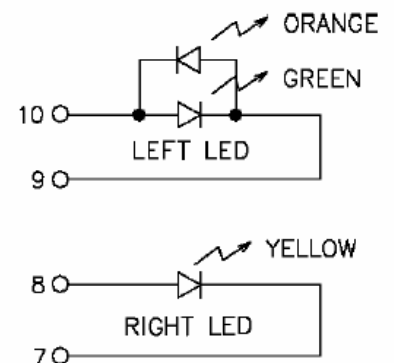
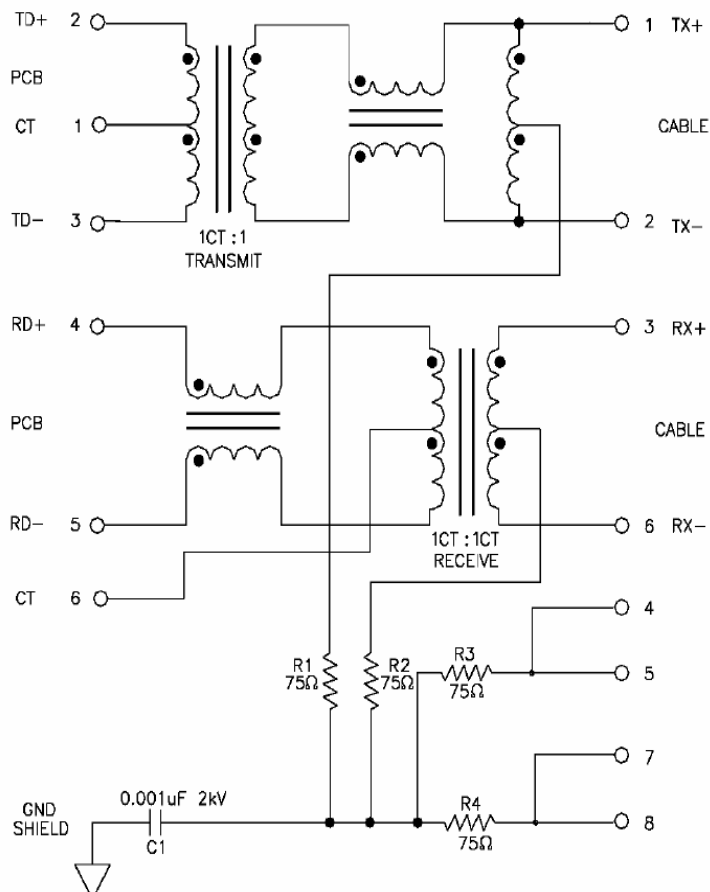


RoHS Compliant



PIN CONFIGURATION (SHOWN FROM COMPONENT SIDE)

SCHEMATICS





RJ3245F SERIES ~

RJ45 10/100/1000 BASE-TX JACK/Dual USB Combo

FEATURES

- 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 CAT5 Fast Ethernet industry performance standard
- Magnetics are 100% electrically tested for HI-POT and continuity
- Meets or exceeds IEEE 802.3 and ANSI X3.263 standards including 350uH minimum OCL with 8mA bias



RoHS Compliant

ELECTRICAL SPECIFICATIONS

P/N	Turns Ratio		Data Rate	LEDs	Insertion Loss	Return Loss			Common		Cross Talk			Hipot
	TX	RX		L/R	(dB Typ.)	100Ω±15Ω (dB Typ.)			Mode Rejection		(dB Typ.) MHz			Vrms @60Hz
					MHz	(dB Typ.) MHz	(dB Typ.) MHz							
					(dB Typ.)	1~30	30~60	60~80	(dB Typ.) MHz	(dB Typ.) MHz	(dB Typ.) MHz	(dB Typ.) MHz	(dB Typ.) MHz	
RJ3245F-10102DYD2-LF	1CT:1	1CT:1	10/100	G-O/Y	-1	-18	-16	-12	-30	-20	-40	-35	-30	1500
RJ3245F-10103YDD2-LF	1CT:1	1CT:1	10/100	Y/G-O	-1	-18	-16	-12	-30	-30	-35	-35	-35	1500
RJ3245F-10104GYD2-LF	1CT:1	1CT:1	10/100	G/Y	-1	-20	-14	-12	-30	-30	-35	-35	---	1500
RJ3245F-10201DYD2-LF	1CT:1	1CT:1	10/100/1000	G-O/Y	-1	-18	-16	-12	-30	-30	-35	-35	-35	1500
RJ3245F-10202GDD2-LF	1CT:1	1CT:1	10/100/1000	G/G-O	-1	-18	-16	-12	-30	-25	-40	-40	-35	1500
RJ3245F-10203GDD2-LF	1CT:1	1CT:1	10/100/1000	G/G-O	-1	-18	-16	-12	-30	-20	-40	-35	-30	1500



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Web Site : www.coilmaster.com.tw

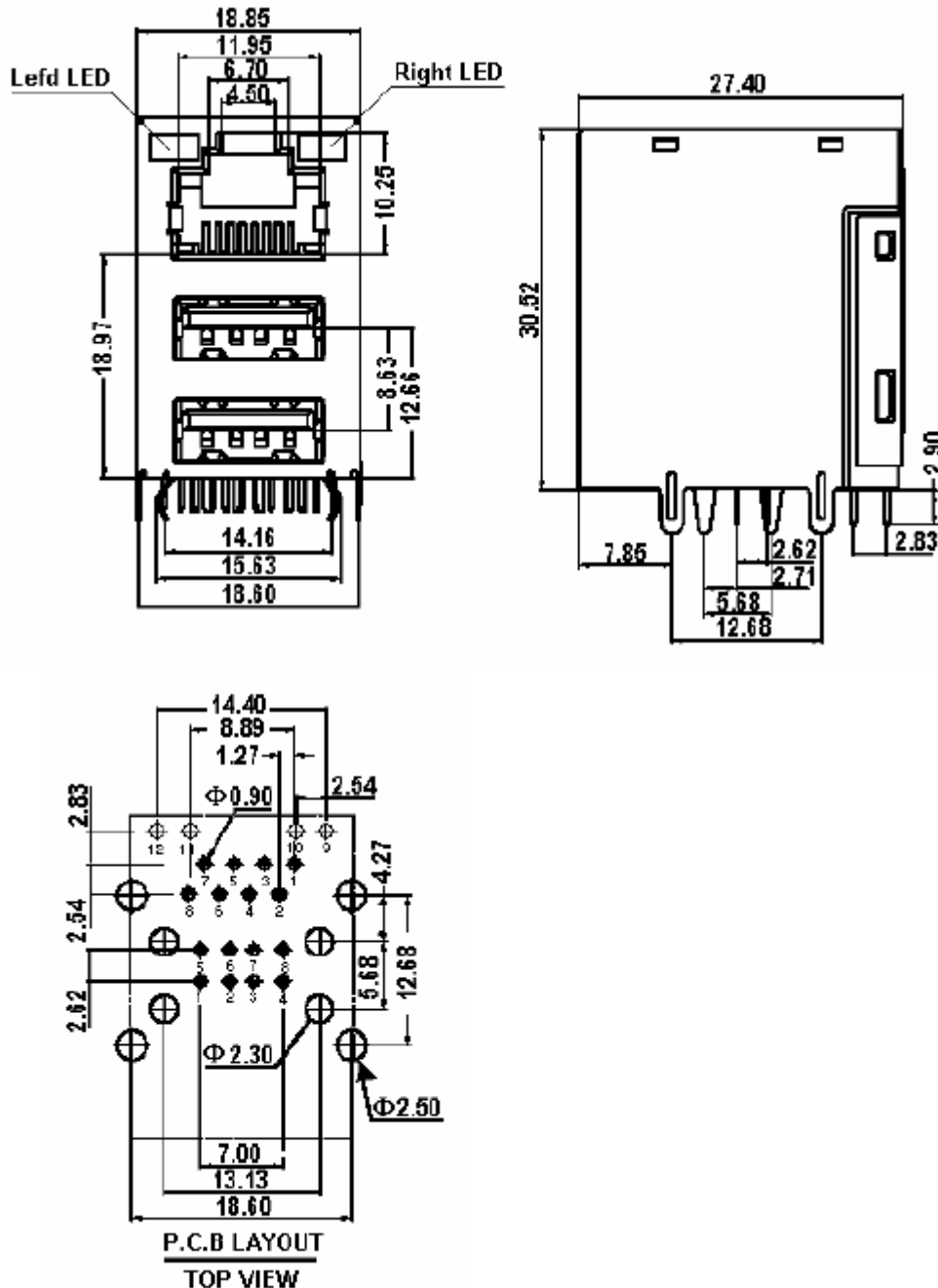
RJ3245F SERIES ~

RJ45 10/100/1000 BASE-TX JACK/Dual USB Combo



RoHS Compliant

DIMENSIONS



※Unit : m/m , all tolerances are ± 0.25



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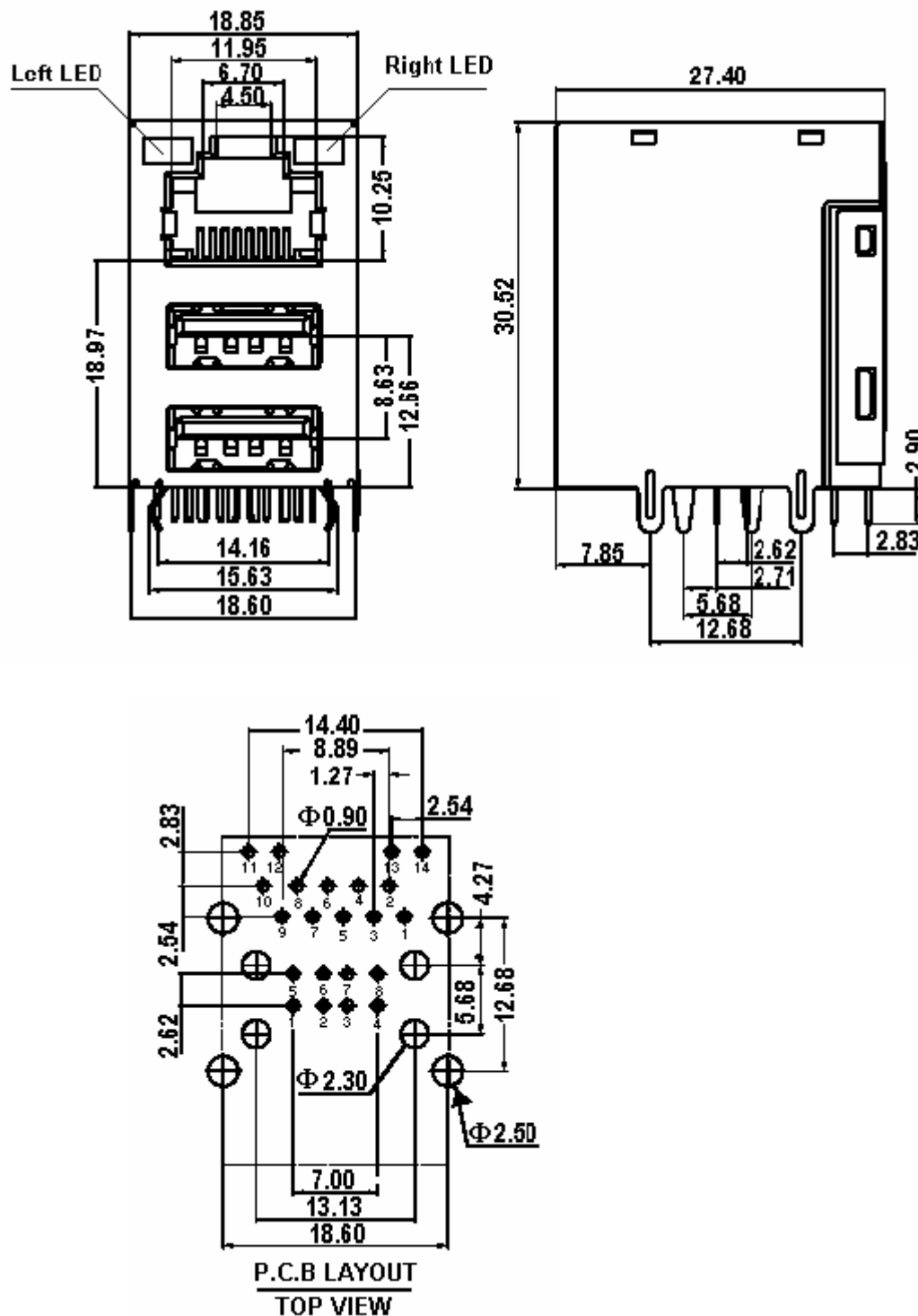
RJ3245F SERIES ~

RJ45 10/100/1000 BASE-TX JACK/Dual USB Combo



RoHS Compliant

DIMENSIONS



※Unit : m/m , all tolerances are ± 0.25



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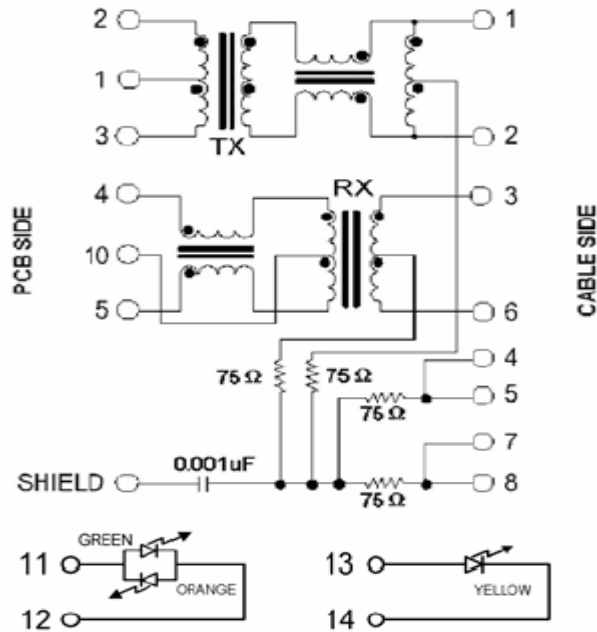
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RJ3245F SERIES ~

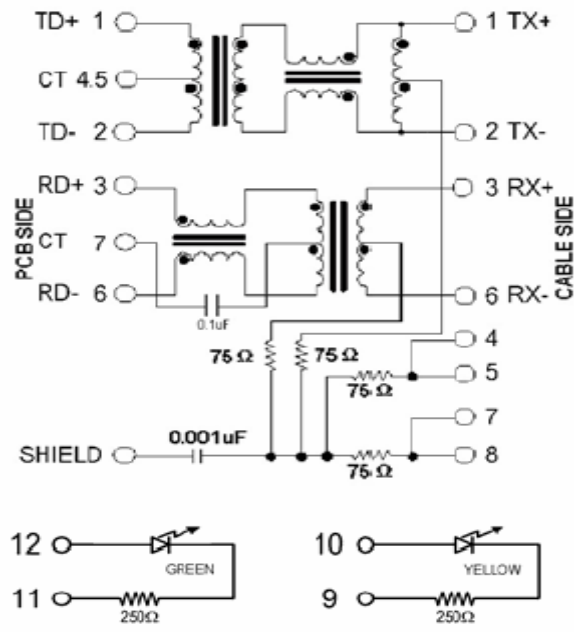
RJ45 10/100/1000 BASE-TX JACK/Dual USB Combo

SCHEMATICS

RJ3245F-10101

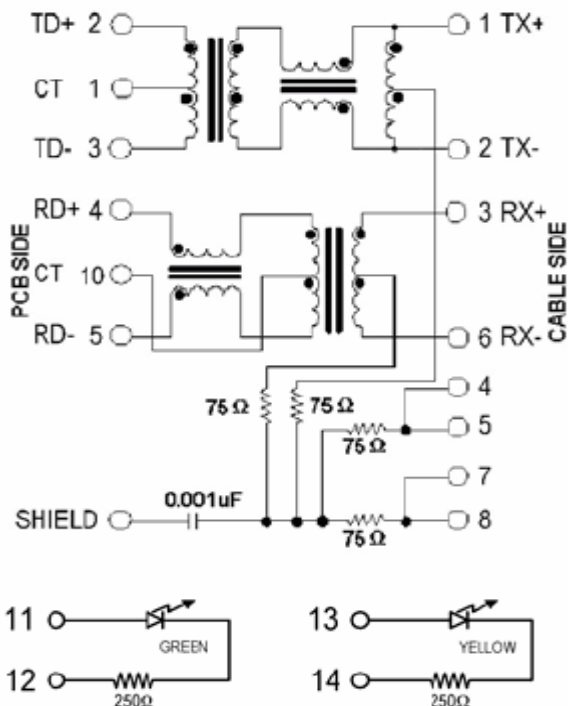


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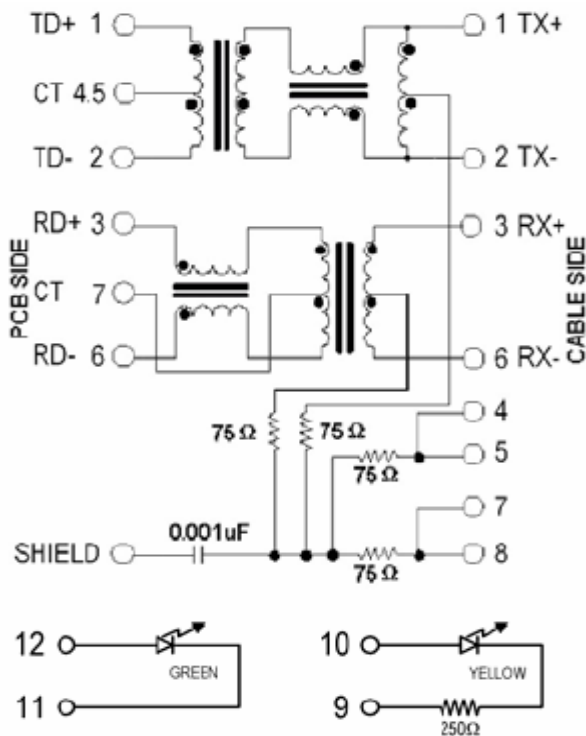


RoHS Compliant

RJ3245F-10103



RJ3245F-10104





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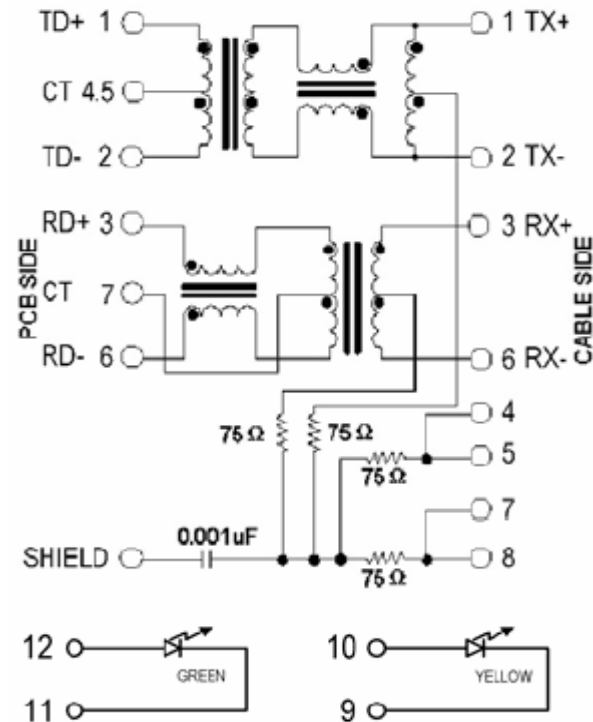
Web Site : www.coilmaster.com.tw

RJ3245F SERIES ~

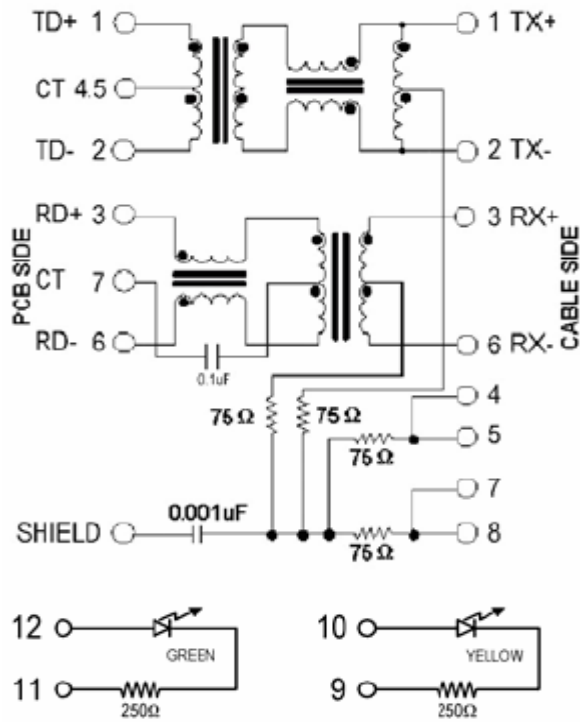
RJ45 10/100/1000 BASE-TX JACK/Dual USB Combo

SCHEMATICS

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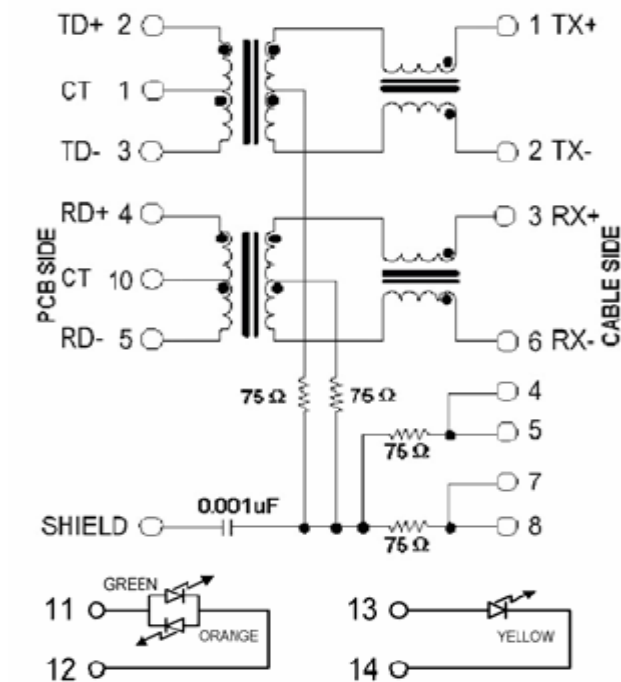


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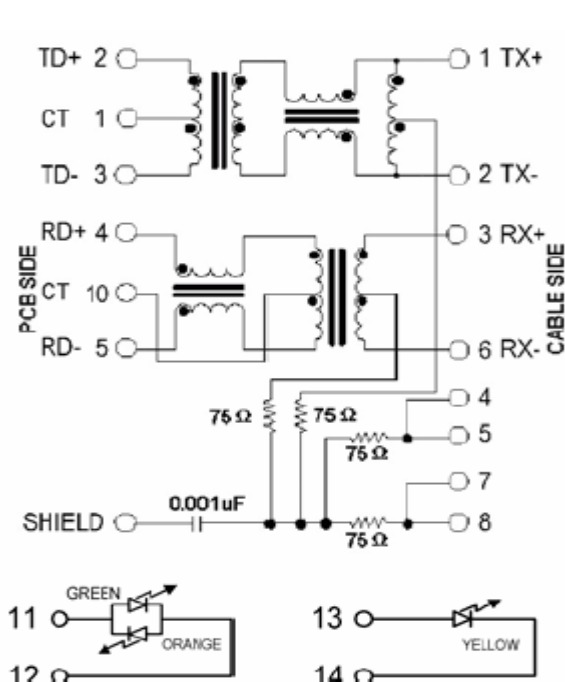


RoHS Compliant

RJ3245F-10105



RJ3245F-10105A





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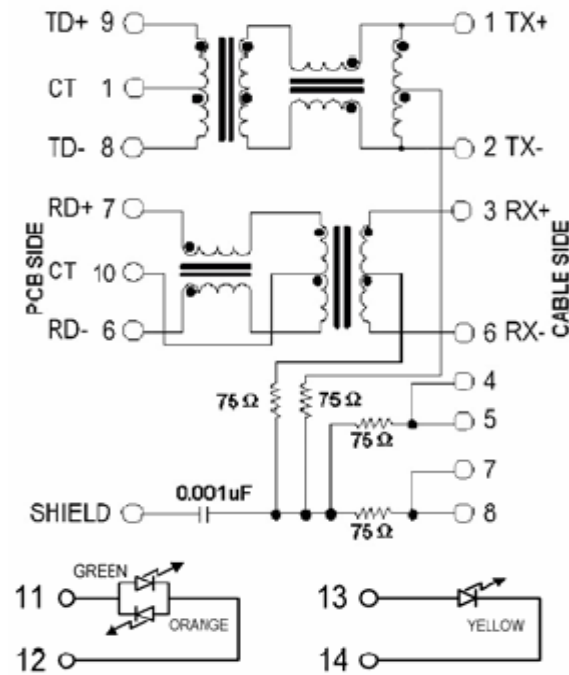
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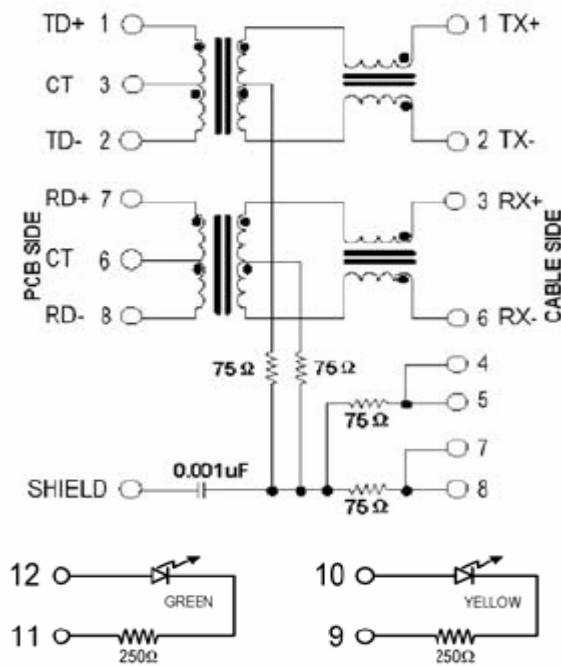
RJ45 10/100/1000 BASE-TX JACK/Dual USB Combo

SCHEMATICS

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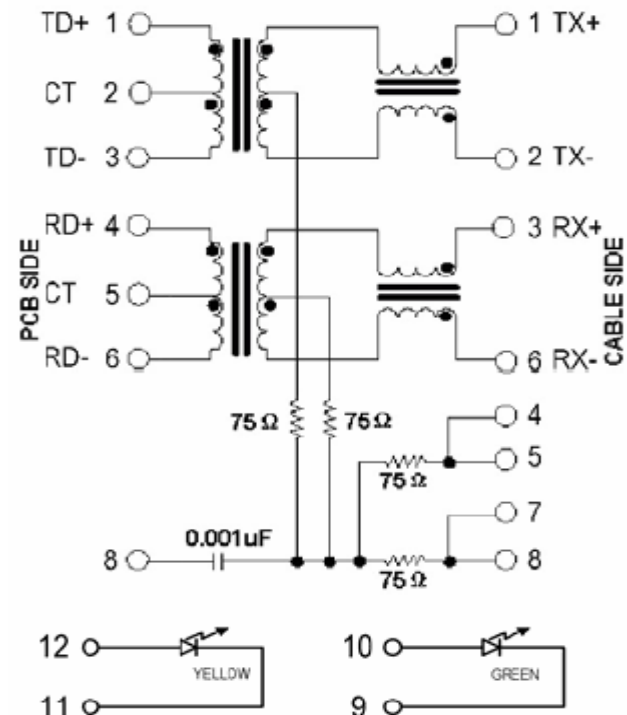


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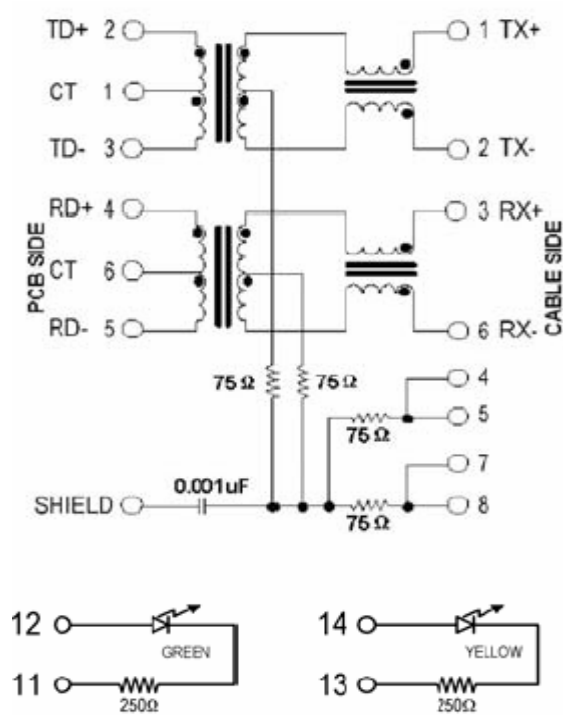


RoHS Compliant

RJ3245F-10111



RJ3245F-10112





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RJ3245F SERIES ~

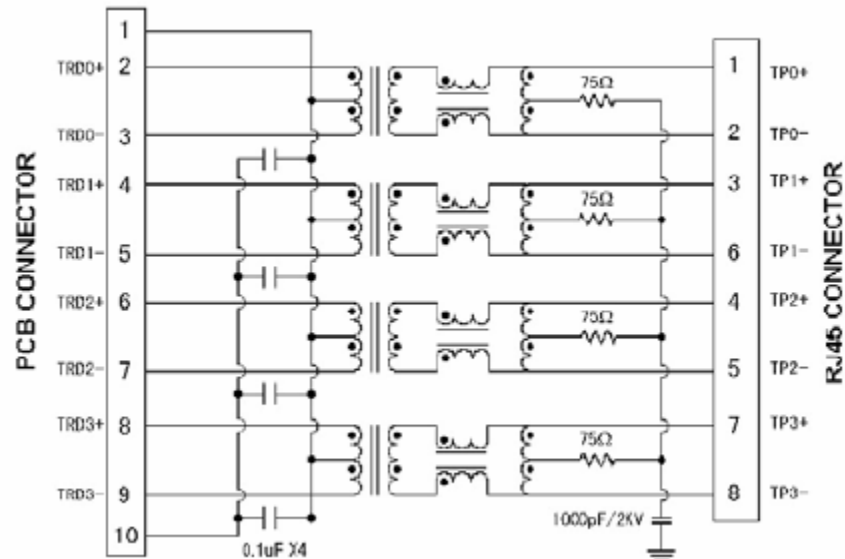
RJ45 10/100/1000 BASE-TX JACK/Dual USB Combo

SCHEMATICS

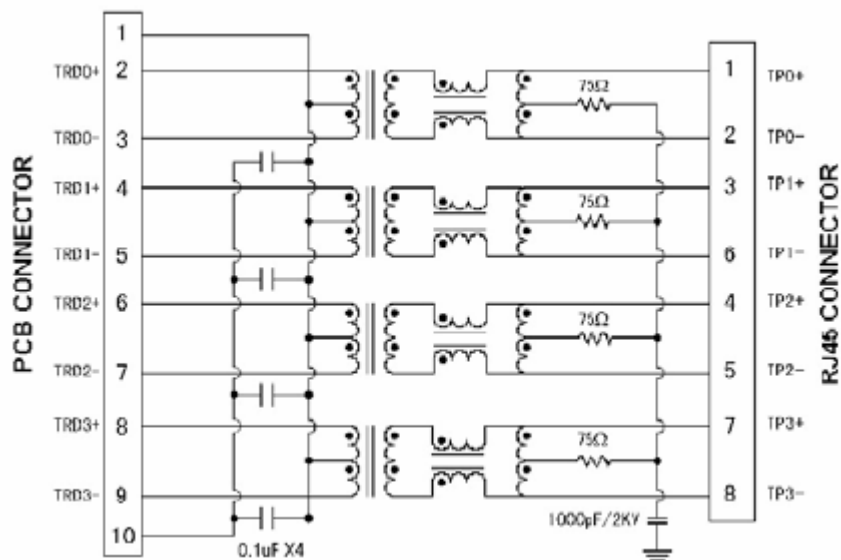
RJ3245F-10201



RoHS Compliant



RJ3245F-10202





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RJ3245F SERIES ~

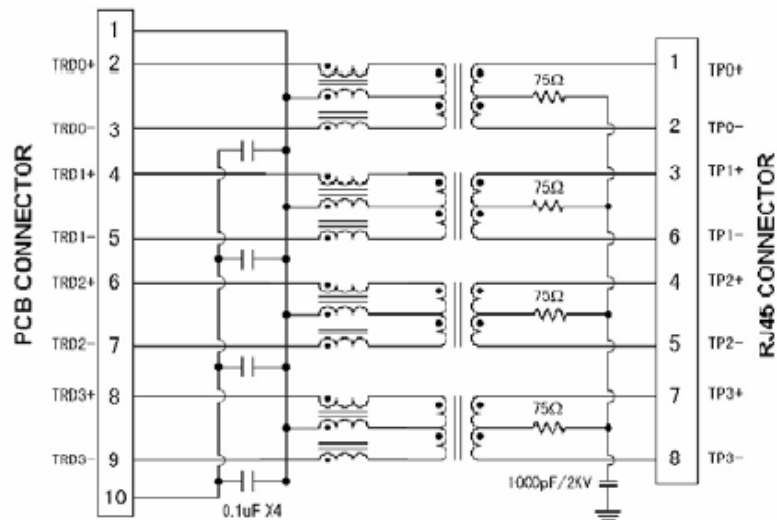
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SCHEMATICS

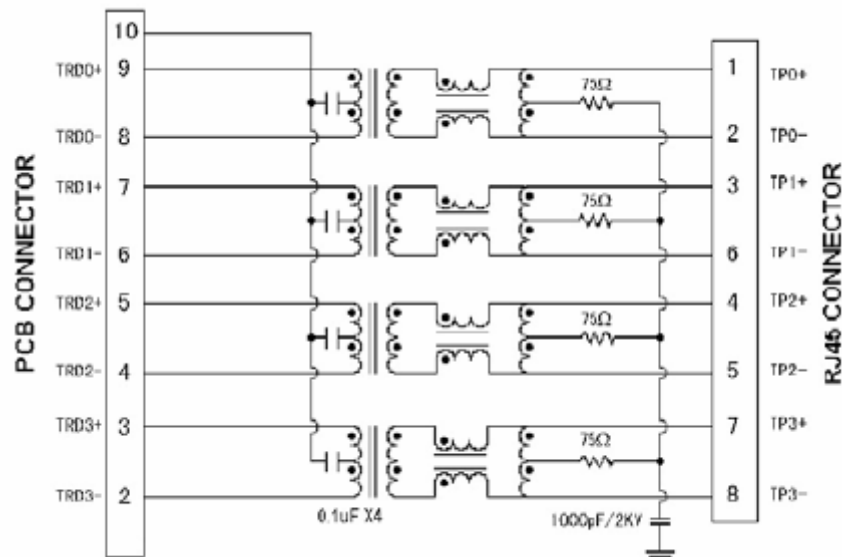
RJ3245F-10203



RoHS Compliant



RJ3245F-10204





RJ3245F SERIES ~

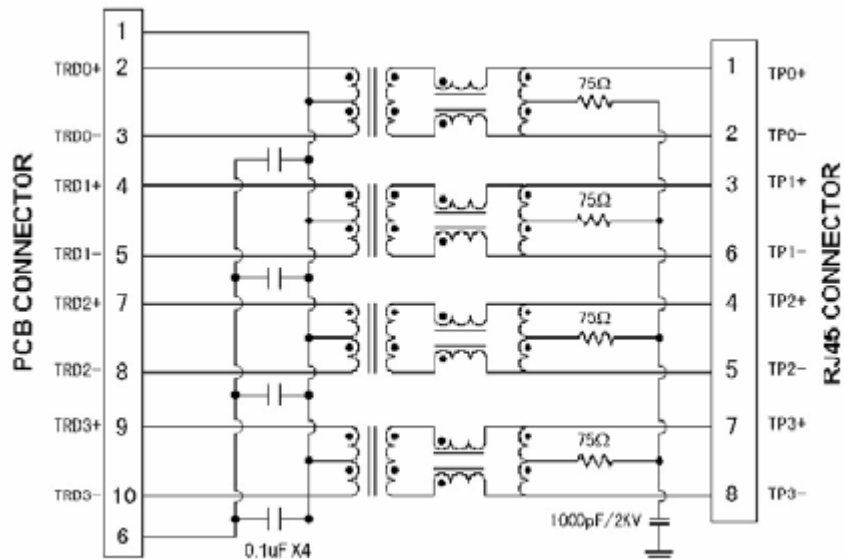
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SCHEMATICS

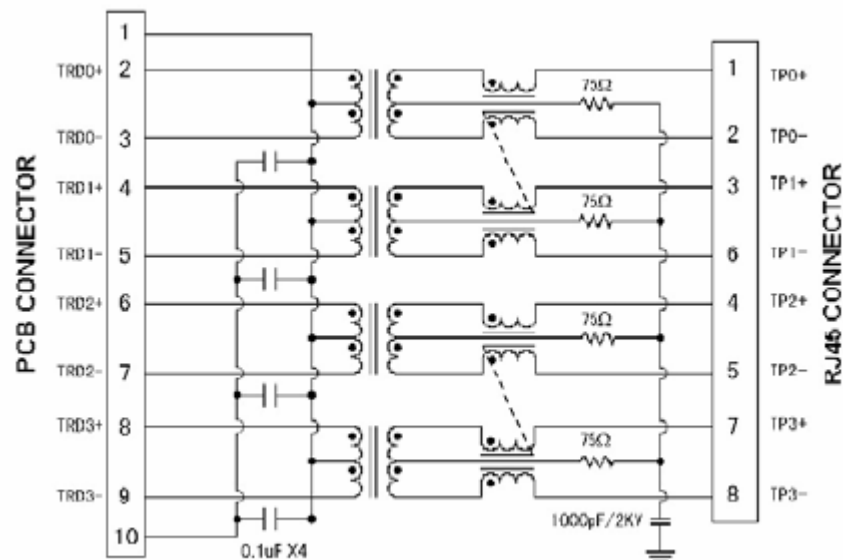
RJ3245F-10205



RoHS Compliant



RJ3245F-10206





RJ3245F SERIES ~

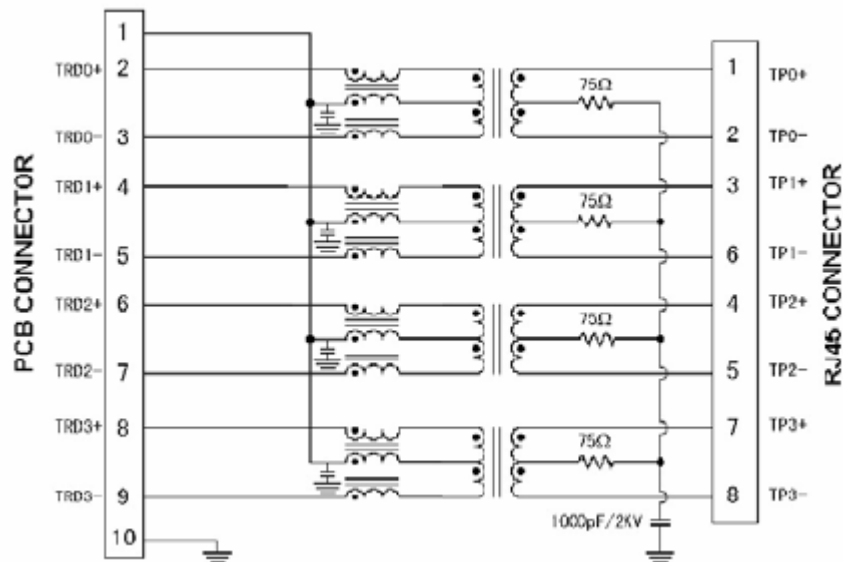
RJ45 10/100/1000 BASE-TX JACK/Dual USB Combo

SCHEMATICS

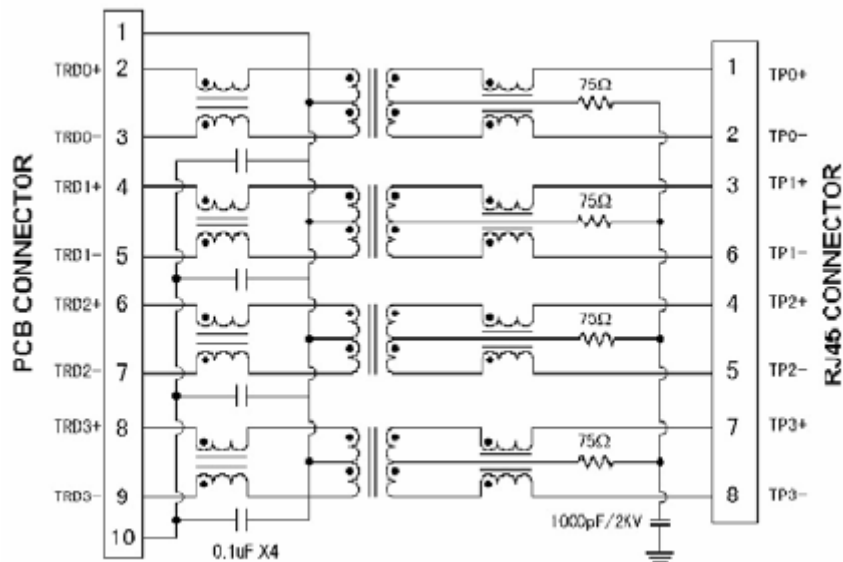
RJ3245F-10207



RoHS Compliant



RJ3245F-10209





RJ3246F SERIES ~

THROUGH HOLE TAB-UP RJ-45 JACK WITH 10/100/1000 MAGNETIC



RoHS Compliant

FEATURES

- 1X1 Tab-UP, 0.85" & 1" long with internal magnetics for 10/100/1000 Base-TX
- 350uH minimum OCL with 8mA bias current
- Internal magnetics options available
- Minimum 1500Vrms isolation

ELECTRICAL SPECIFICATIONS

P/N	Insertion Loss (dB Typ.)	Return Loss 100Ω (dB Typ.) MHz				Common Mode Rejection (dB Typ.) MHz			Cross Talk (dB Typ.) MHz			Hipot Vrms Typ.
		0.3-100MHz	1~30	40	50	60-100	30	60	100	30	60	100
RJ3246F-1301GDD5-LF	-1.2	-16	-13.5	-11.5	-10	-35	-32	-30	-40	-36	-30	1500
RJ3246F-1302GYD5-LF	-1.2	-16	-13.5	-11.5	-10	-35	-32	-30	-40	-36	-30	1500
RJ3246F-1301GYD5-LF	-1.2	-16	-13.5	-11.5	-10	-35	-32	-30	-40	-36	-30	1500
RJ3246F-1303GYD5-LF	-1.2	-16	-13.5	-11.5	-10	-35	-32	-30	-40	-36	-30	1500
RJ3246F-1201YGD2-LF	-1.2	-14	-14	-14	-10	-35	-32	-30	-40	-36	-30	1500
RJ3246F-1202YGD2-LF	-1.2	-14	-14	-14	-10	-35	-32	-30	-40	-36	-30	1500
RJ3246F-1203GGD2-LF	-1.2	-14	-14	-14	-10	-35	-32	-30	-40	-36	-30	1500



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RJ3246F SERIES ~

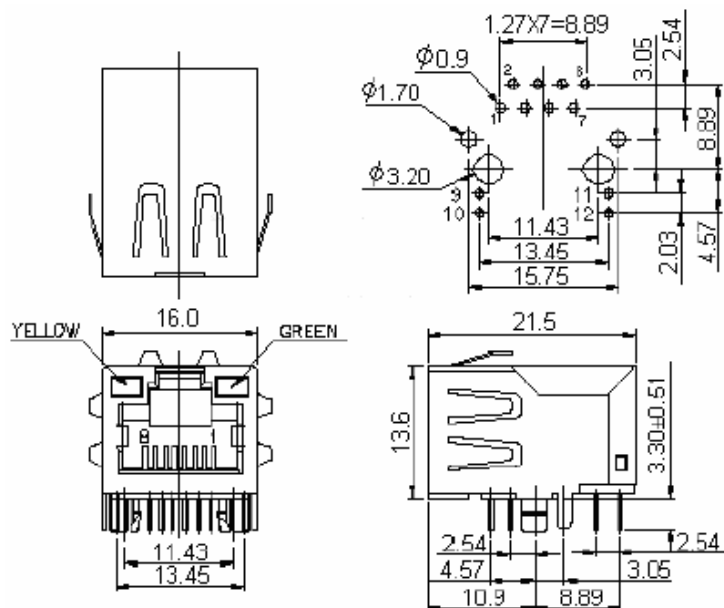
THROUGH HOLE TAB-UP RJ-45 JACK WITH 10/100/1000 MAGNETIC



RoHS Compliant

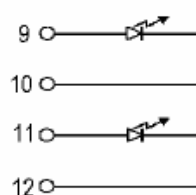
DIMENSIONS

RJ3246F-12XX

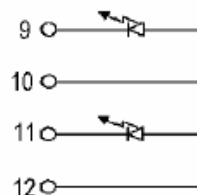


LED Configuration:

1.



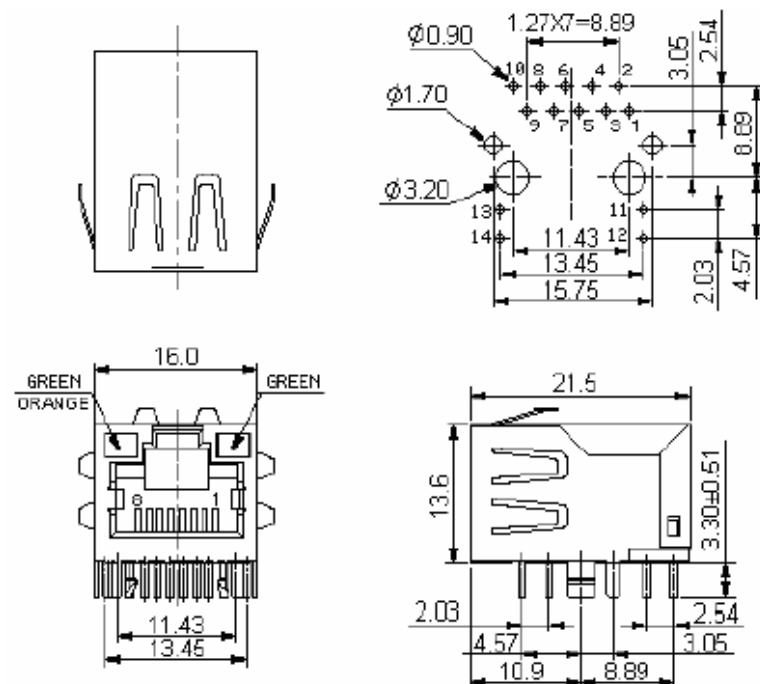
2.



Standard LED	Wavelength	Forward V (Max)
Yellow	585 nm	2.5V
Green	565 nm	2.5V

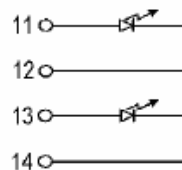
※With a forward current of 20mA

RJ3246F-13XX

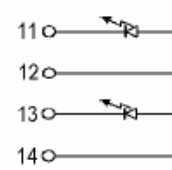


LED Configuration:

1.



2.



Standard LED	Wavelength	Forward V (Max)
Yellow	585 nm	2.5V
Green	565 nm	2.5V

※With a forward current of 20mA

※Unit : m/m , all tolerances are ±0.25

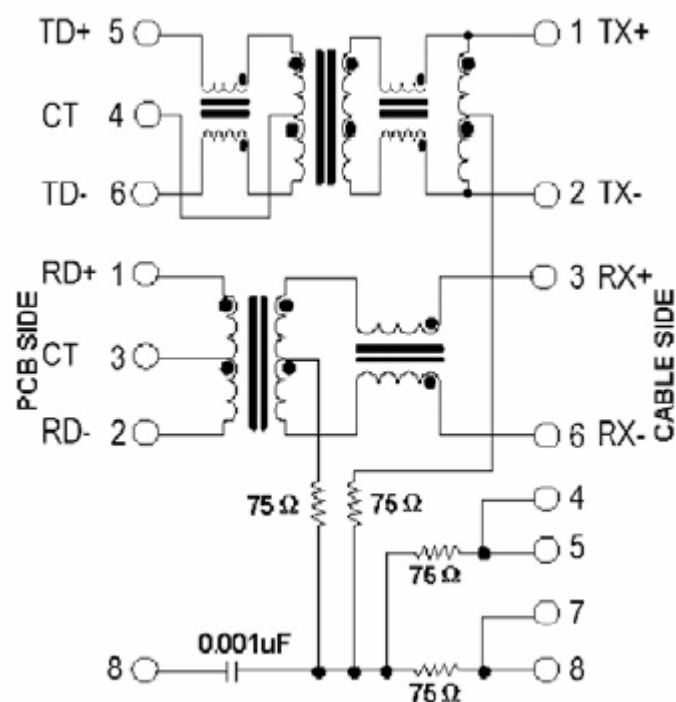


RJ3246F SERIES ~

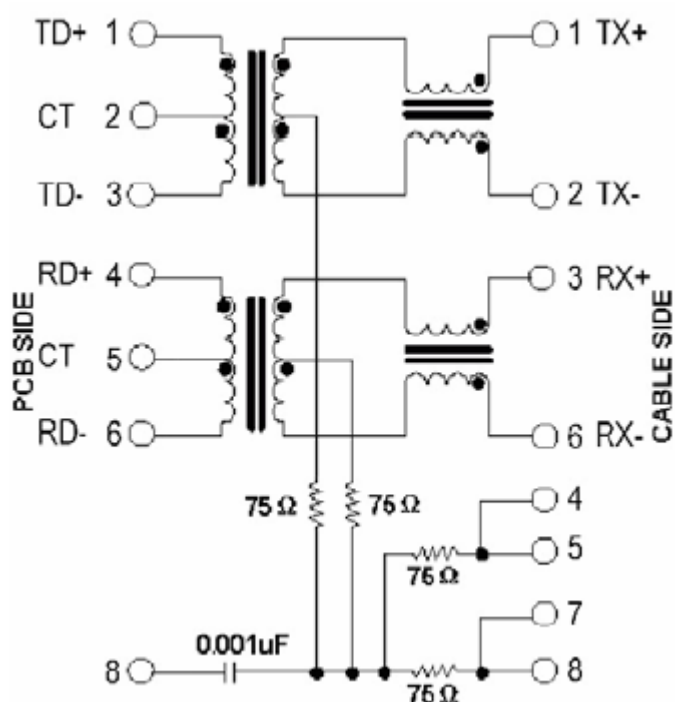
THROUGH HOLE TAB-UP RJ-45 JACK WITH 10/100/1000 MAGNETIC

SCHEMATICS

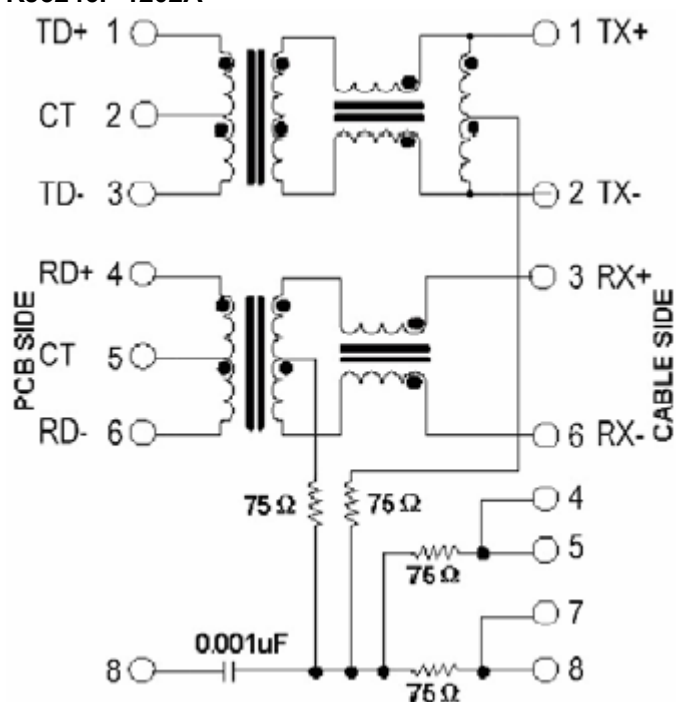
RJ3246F-1201



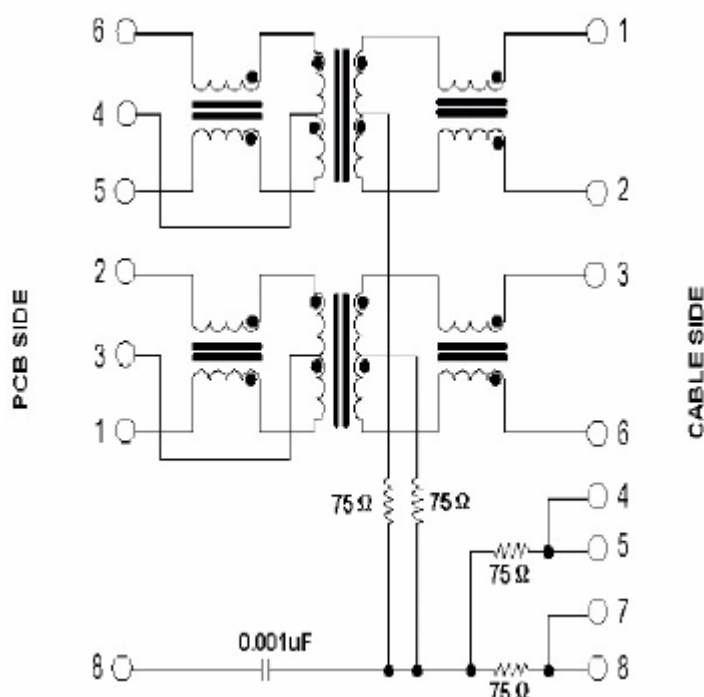
RJ3246F-1202



RJ3246F-1202A



RJ3246F-1203



RoHS Compliant

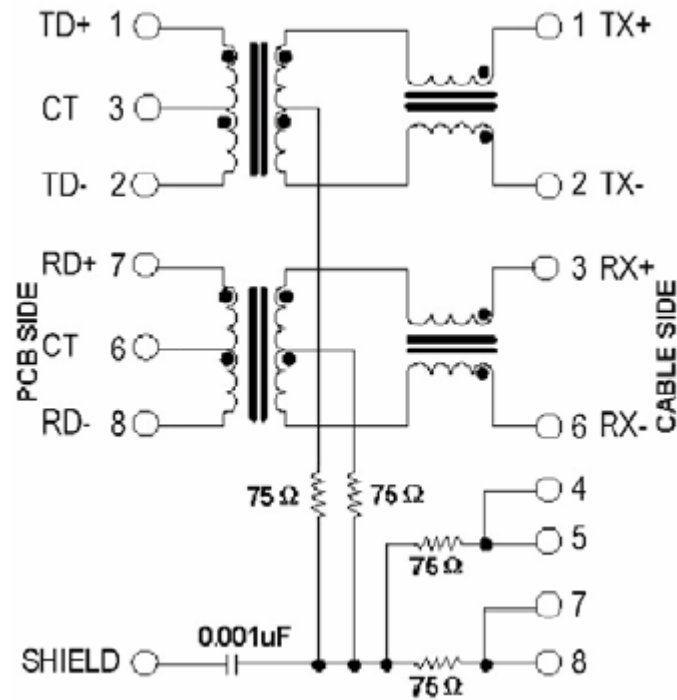


RJ3246F SERIES ~

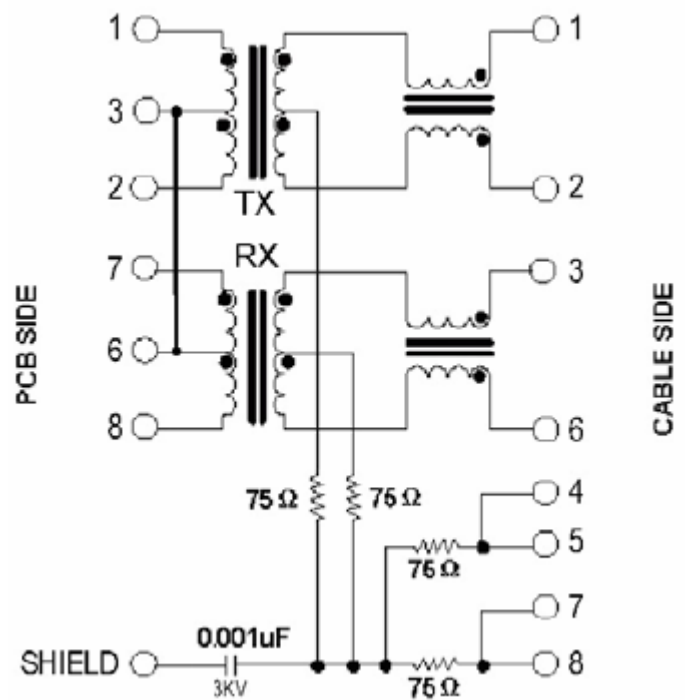
THROUGH HOLE TAB-UP RJ-45 JACK WITH 10/100/1000 MAGNETIC

SCHEMATICS

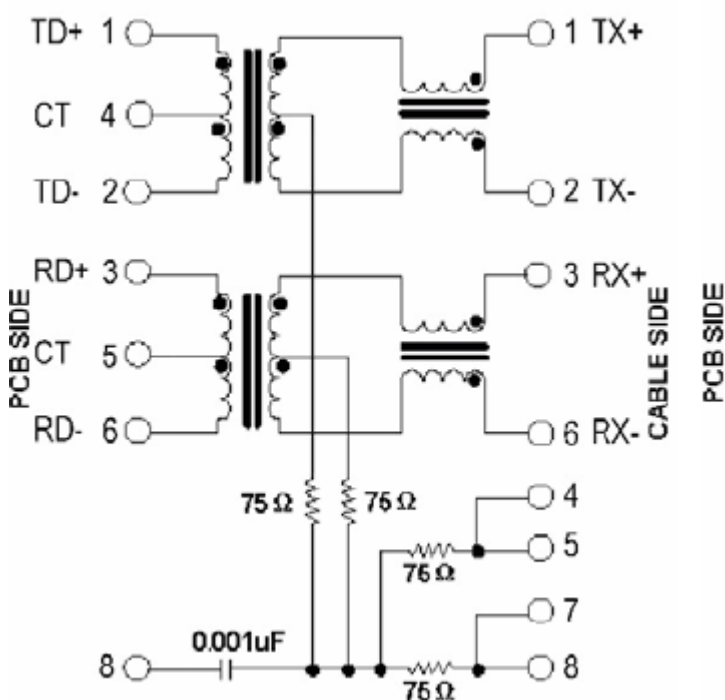
RJ3246F-1210



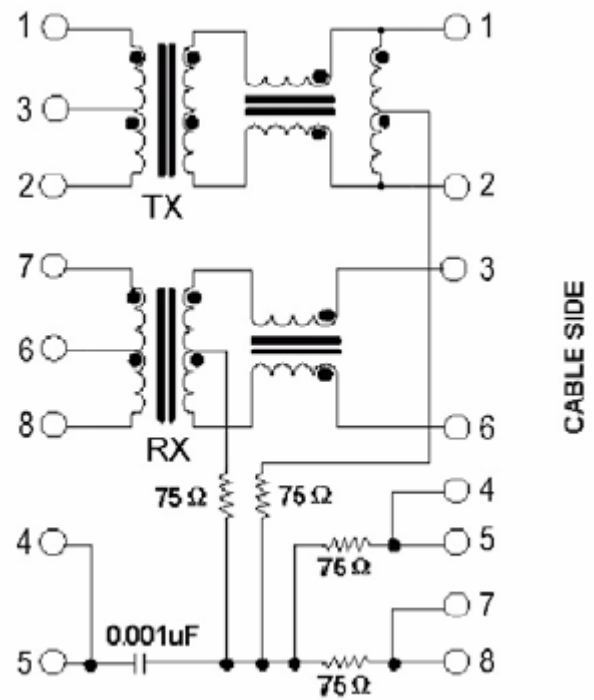
RJ3246F-1201A



RJ3246F-1211



RJ3246F-1215



RoHS Compliant



RJ3246F SERIES ~

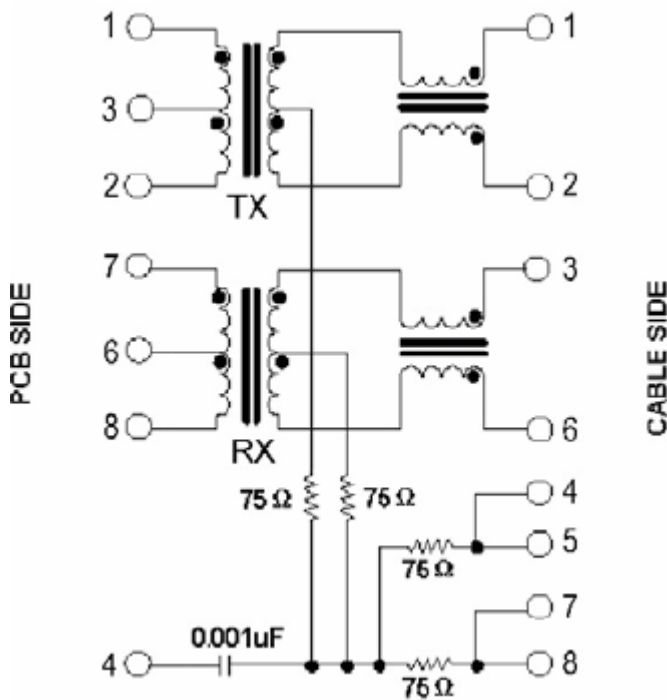
THROUGH HOLE TAB-UP RJ-45 JACK WITH 10/100/1000 MAGNETIC



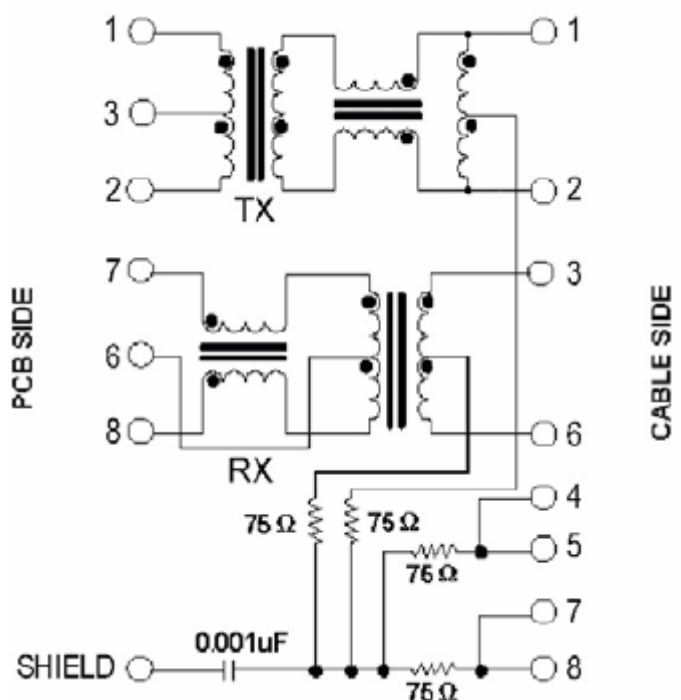
RoHS Compliant

SCHEMATICS

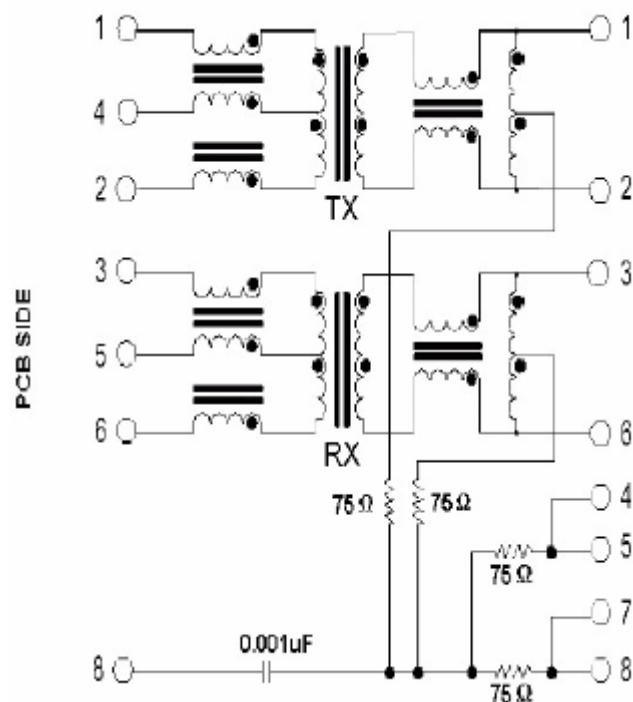
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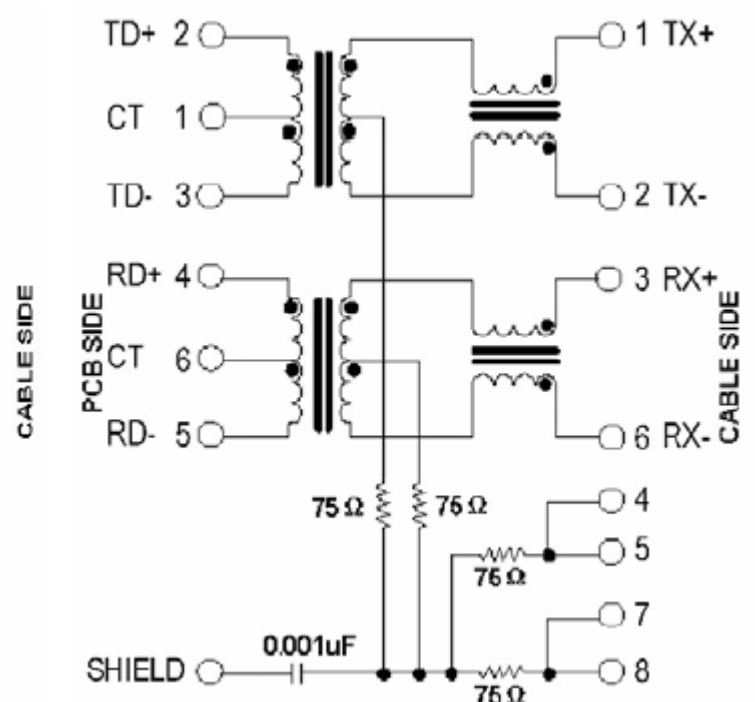
RJ3246F-1216



RJ3246F-1217



RJ3246F-1218





RJ3246F SERIES ~

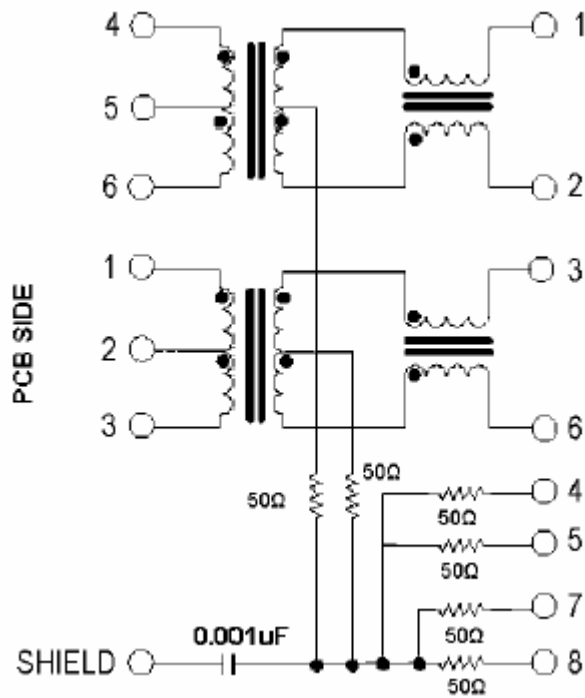
THROUGH HOLE TAB-UP RJ-45 JACK WITH 10/100/1000 MAGNETIC



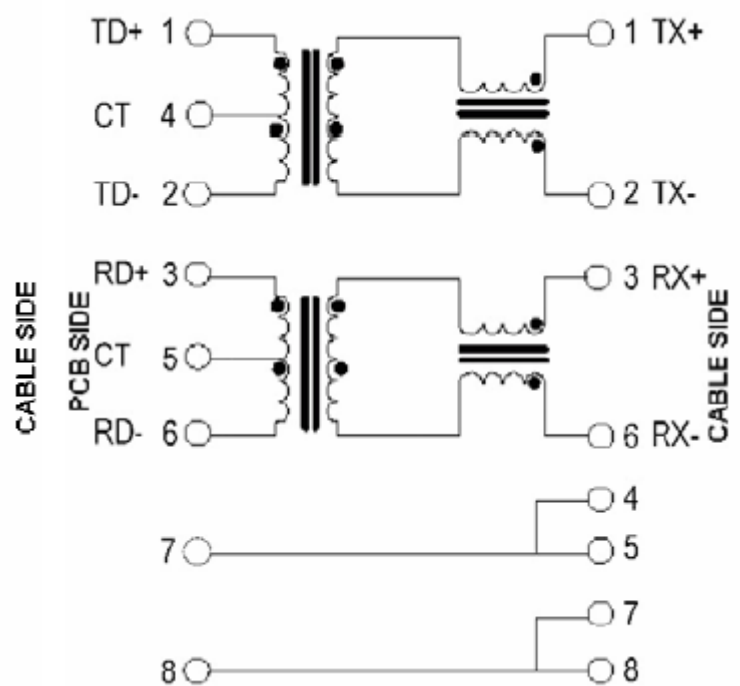
RoHS Compliant

SCHEMATICS

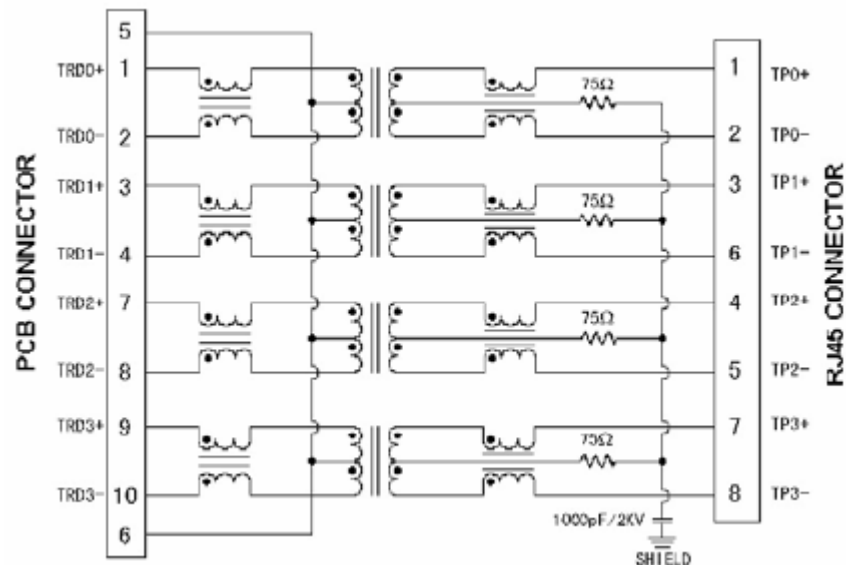
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RJ3246F-1220



RJ3246F-1301





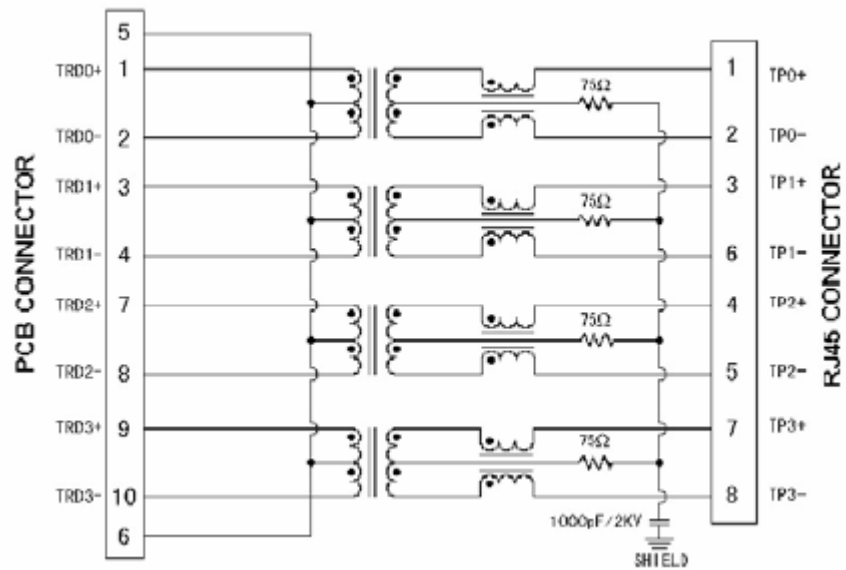
RJ3246F SERIES ~

THROUGH HOLE TAB-UP RJ-45 JACK WITH 10/100/1000 MAGNETIC

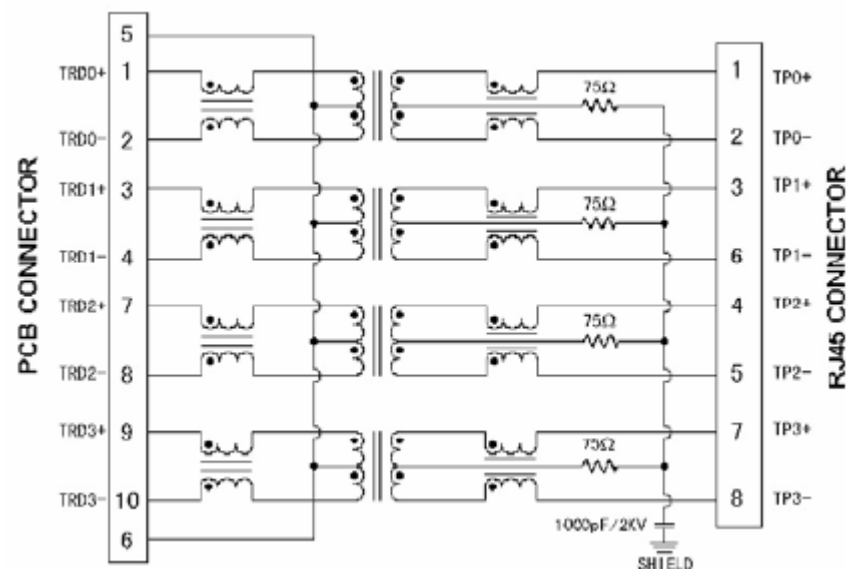
SCHEMATICS
RJ3246F-1302



RoHS Compliant



RJ3246F-1303





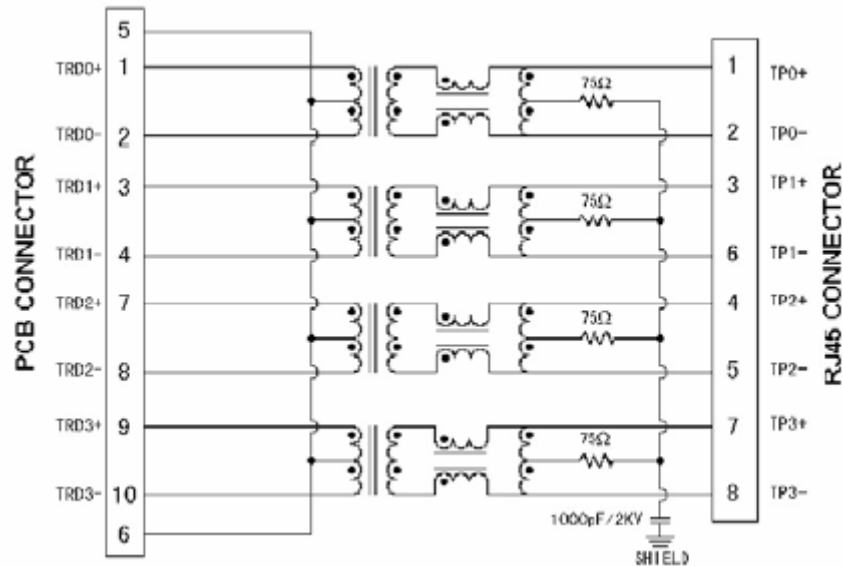
RJ3246F SERIES ~

THROUGH HOLE TAB-UP RJ-45 JACK WITH 10/100/1000 MAGNETIC

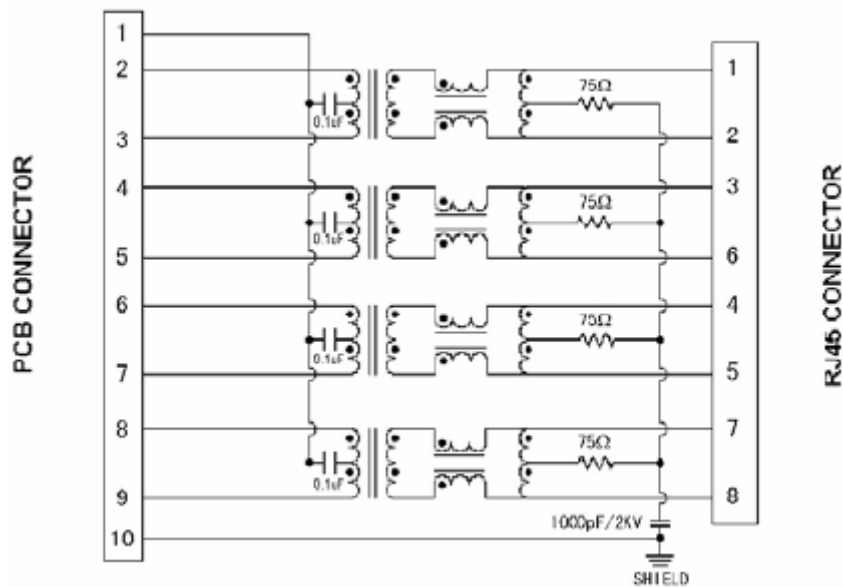
SCHEMATICS
RJ3246F-1304



RoHS Compliant



RJ3246F-1305





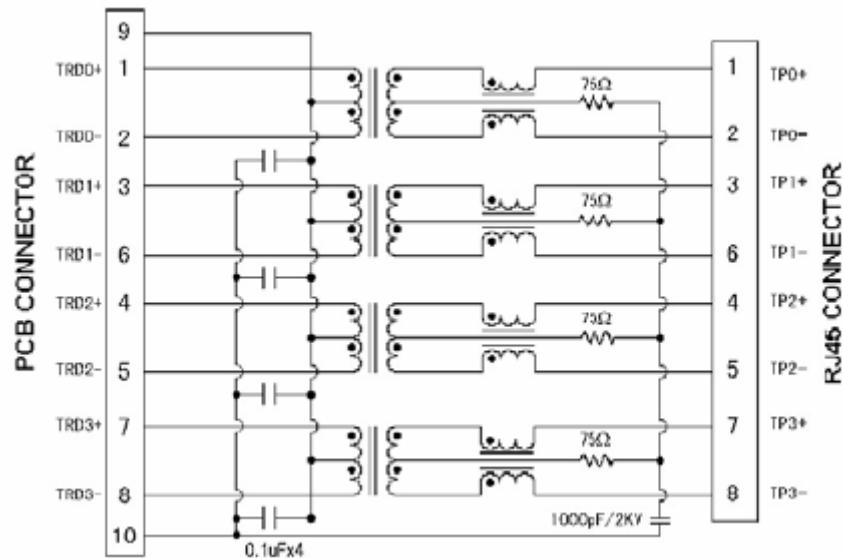
RJ3246F SERIES ~

THROUGH HOLE TAB-UP RJ-45 JACK WITH 10/100/1000 MAGNETIC

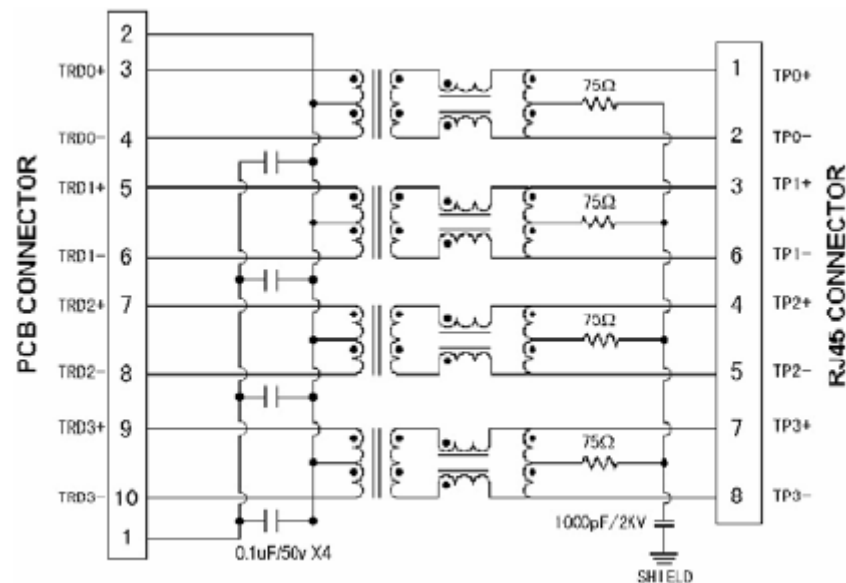
SCHEMATICS
RJ3246F-1306



RoHS Compliant



RJ3246F-1308





RJ3246F SERIES ~

THROUGH HOLE TAB-UP RJ-45 JACK WITH 10/100/1000 MAGNETIC

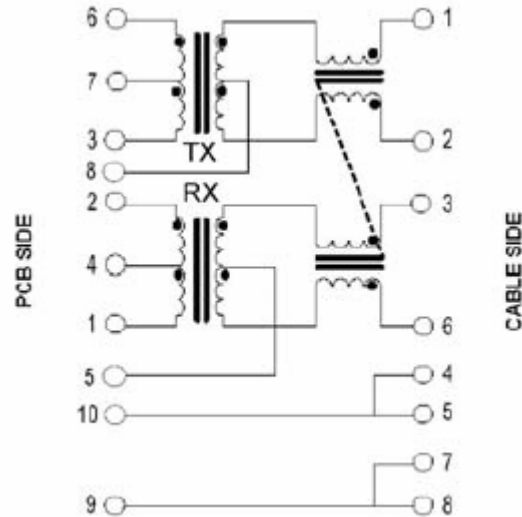
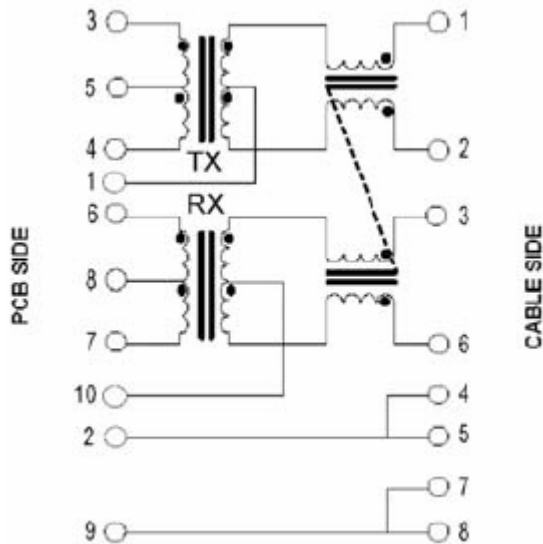
SCHEMATICS

RJ3246F-1309

RJ3246F-1310



RoHS Compliant





RJ3247F SERIES ~

RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

FEATURES

- 1X1 Tab-UP, 1" long RJ45 with internal magnetics
- 350uH minimum OCL with 8mA bias current
- 8 or 6-pin signal pin versions available
- Available with and without LEDs
- Suitable for CAT 5 & 6 Fast Ethernet Cable or better UTP
- Internal magnetics are 100% electrically tested for HI-POT and functionality



RoHS Compliant

ELECTRICAL SPECIFICATIONS

P/N	Turns Ratio		LEDs	Insertion Loss	Return Loss 100Ω±15Ω (dB Typ.)				Common Mode Rejection		Cross Talk			Hipot Vrms
	TX	RX	L/R	(dB Typ.)	MHz				(dB Typ.) MHz		(dB Typ.) MHz			@60Hz
				1-65MHz	1~10	10~30	30~60	60~80	1-50	50-100	1-30	30-60	60-100	1MIN
RJ3247F-1201ND-LF	1CT:1	1CT:1	NONE	-1	-20	-16	-12	-10	-30	-20	-40	-35	-30	1500
RJ3247F-1202YGD5-LF	1CT:1	1CT:1	Y/G	-1	-20	-16	-12	-10	-30	-20	-40	-35	-30	1500
RJ3247F-1203ND2-LF	1CT:1	1CT:1	NONE	-1	-20	-16	-12	-10	-30	-20	-40	-35	-30	1500
RJ3247F-1204GYDNW3-LF	1CT:1	1CT:1	G/Y	-1	-20	-16	-12	-10	-30	-20	-40	-35	-30	1500
RJ3247F-1204ND3-LF	1CT:1	1CT:1	NONE	-1	-20	-16	-12	-10	-30	-20	-40	-35	-30	1500
RJ3247F-1205GYDNW3-LF	1CT:1	1CT:1	G/Y	-1	-20	-16	-12	-10	-30	-20	-40	-35	-30	1500
RJ3247F-1205GYD3-LF	1CT:1	1CT:1	G/Y	-1	-20	-16	-12	-10	-30	-20	-40	-35	-30	1500
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RJ3247F-1206GGD3-LF	1CT:1	1CT:1	G/G	-1	-20	-16	-12	-10	-30	-20	-40	-35	-30	1500
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RJ3247F-1207YGD3-LF	1CT:1	1CT:1	Y/G	-1	-20	-16	-12	-10	-30	-20	-40	-35	-30	1500
RJ3247F-1211GDD3-LF	1CT:1	1CT:1	G/O_G	-1	-20	-16	-12	-10	-30	-20	-40	-35	-30	1500
RJ3247F-1212GDD3-LF	1CT:1	1CT:1	G/G_O	-1	-20	-16	-12	-10	-30	-20	-40	-35	-30	1500
RJ3247F-1213GDD3-LF	1CT:1	1CT:1	G/G_O	-1	-20	-16	-12	-10	-30	-20	-40	-35	-30	1500



RJ3247F SERIES ~

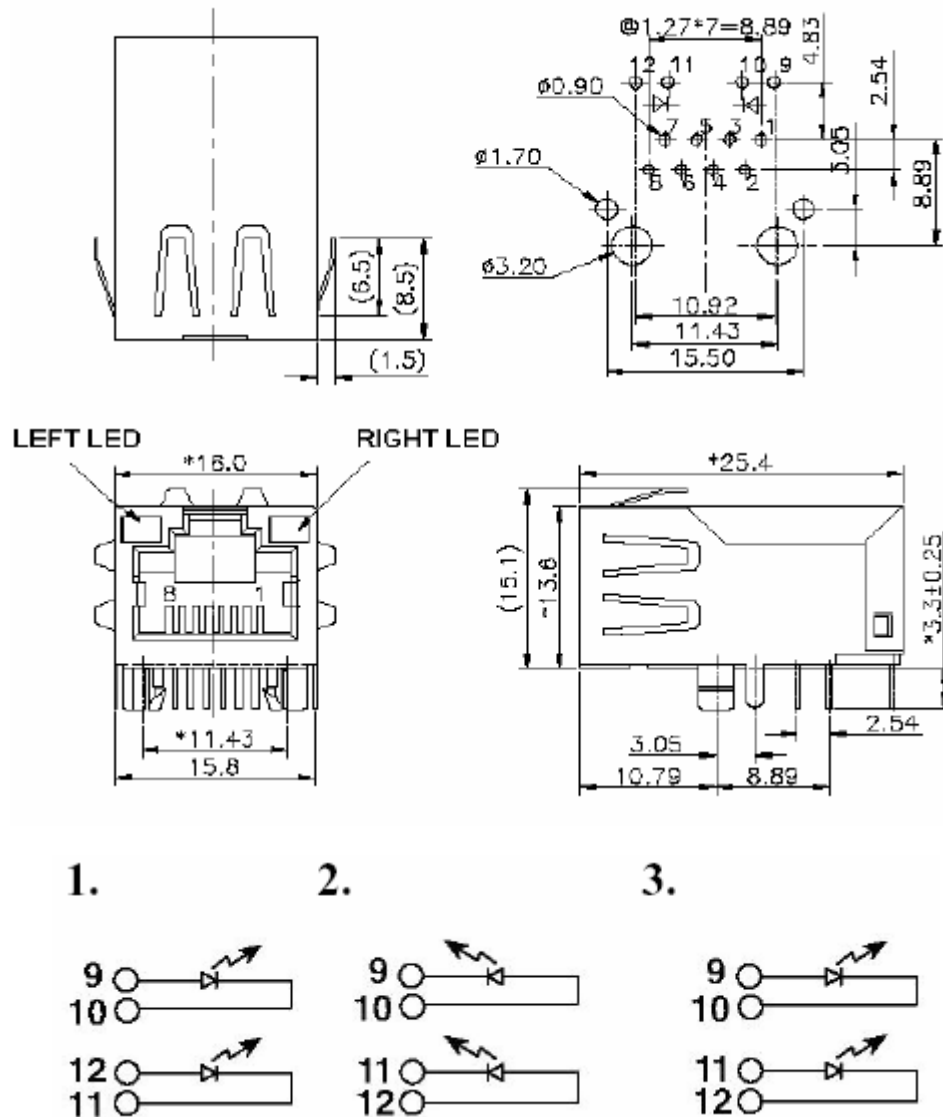
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

DIMENSIONS

RJ3247F-120X



RoHS Compliant



Standard LED	Wavelength	Forward V (Max)
Yellow	585 nm	2.5V
Green	565 nm	2.5V

※With a forward current of 20mA



RJ3247F SERIES ~

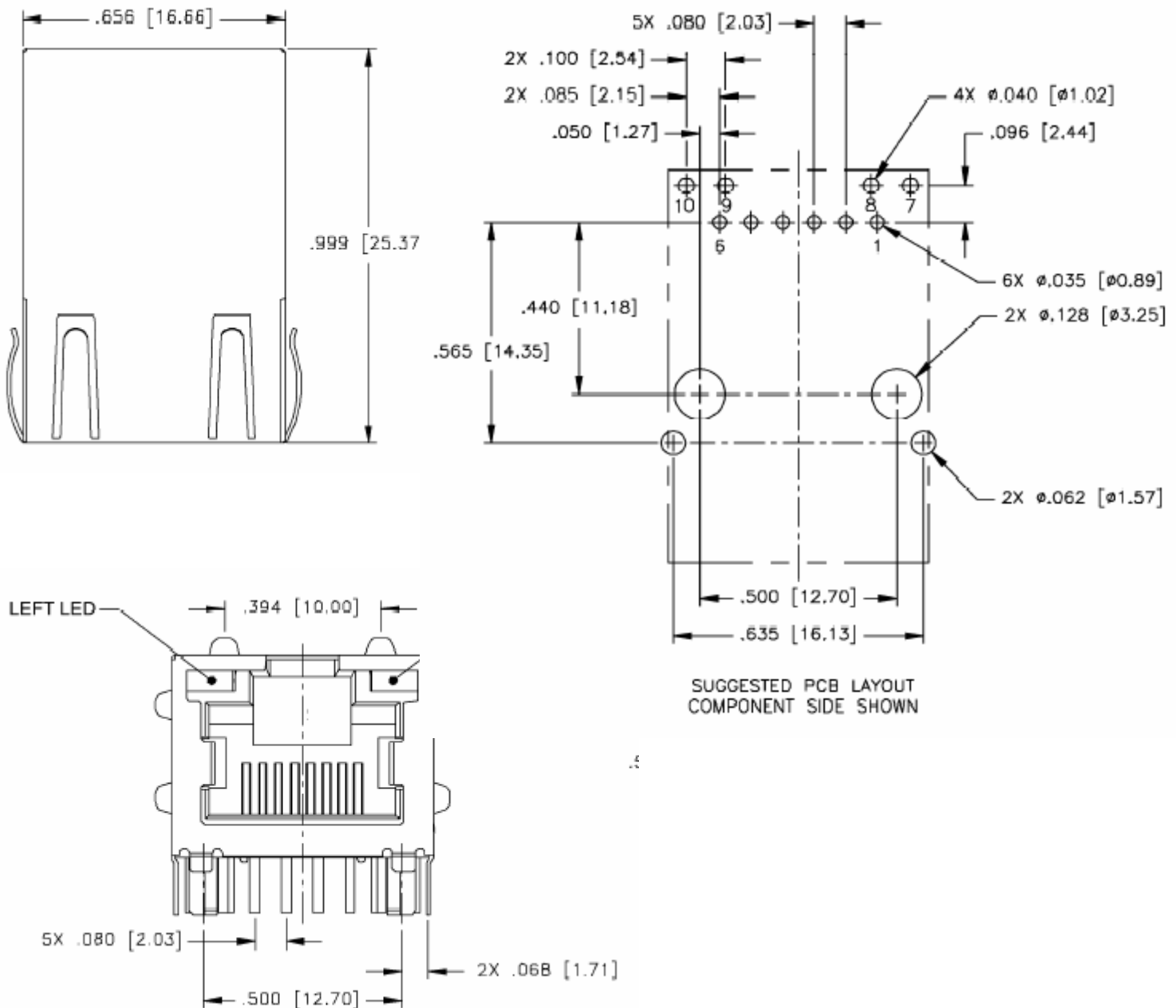
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE



RoHS Compliant

DIMENSIONS

RJ3247F-121X





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E-mail : info@coilmaster.com.tw

Web Site : www.coilmaster.com.tw

RJ3247F SERIES ~

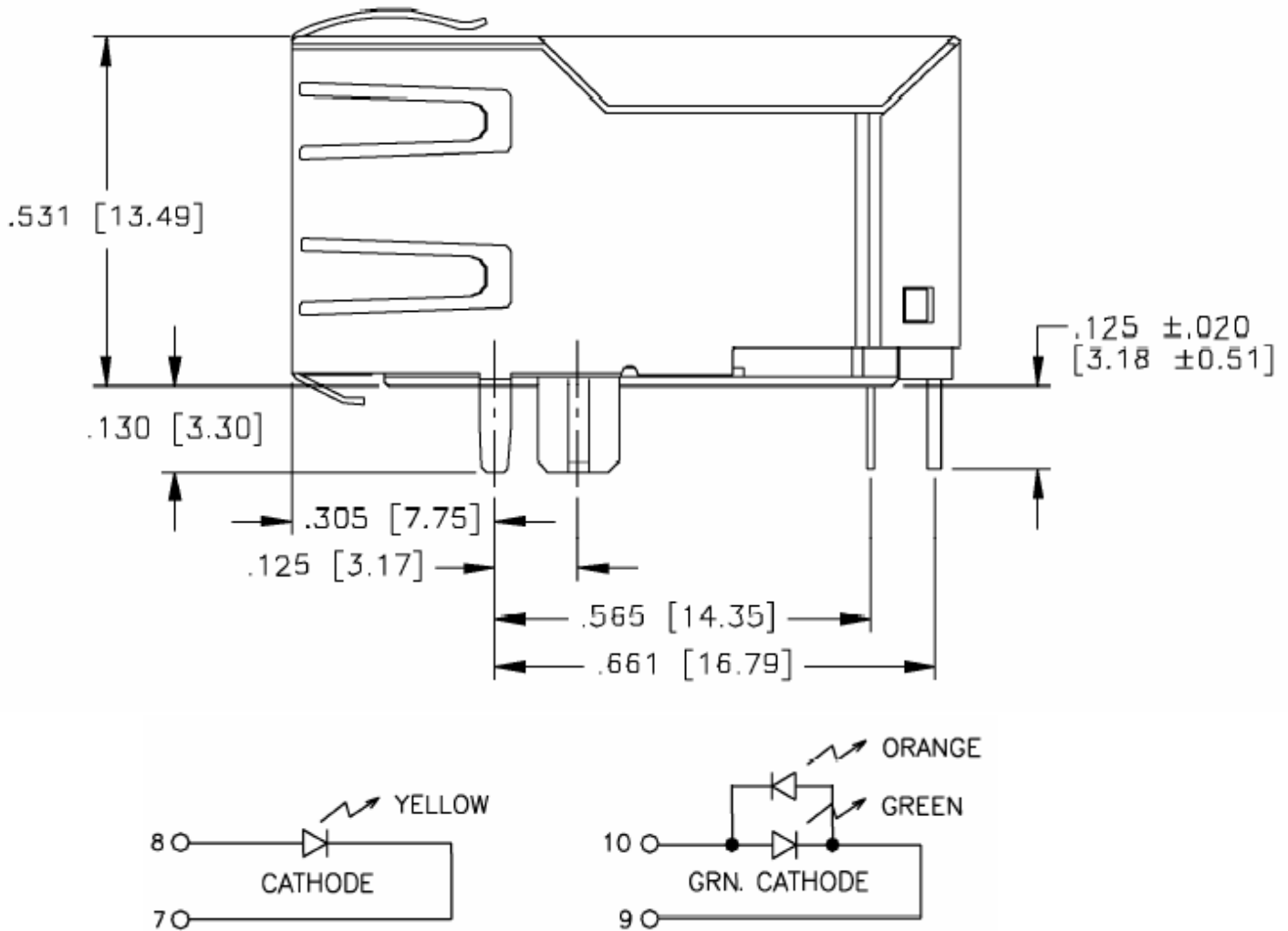
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE



RoHS Compliant

DIMENSIONS

RJ3247F-121X



Standard LED	Wavelength	Forward V (Max)
Yellow	585 nm	2.5V
Green	565 nm	2.5V
Orange	610 nm	2.5V

※With a forward current of 20mA



RJ3247F SERIES ~

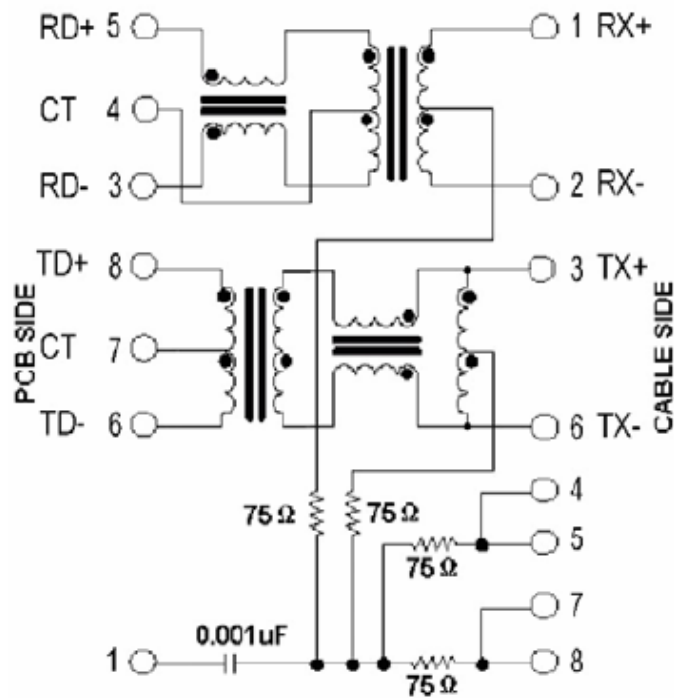
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE



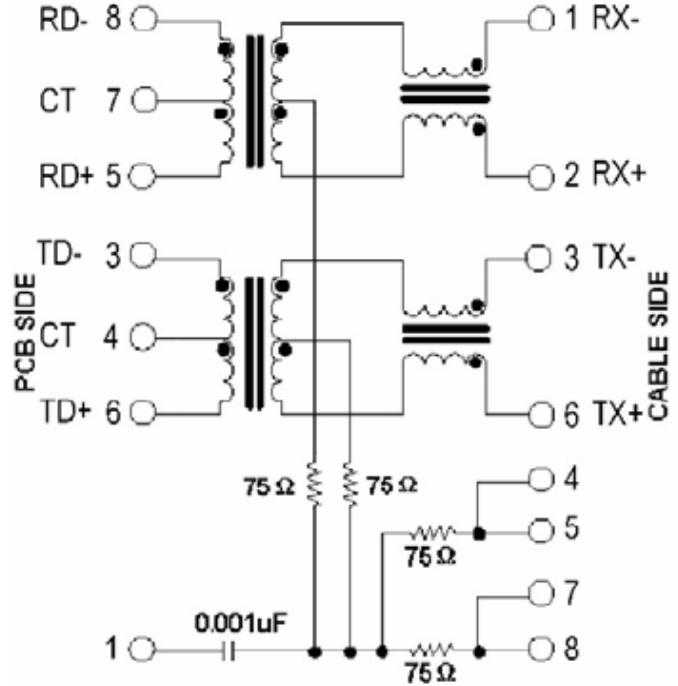
RoHS Compliant

SCHEMATICS

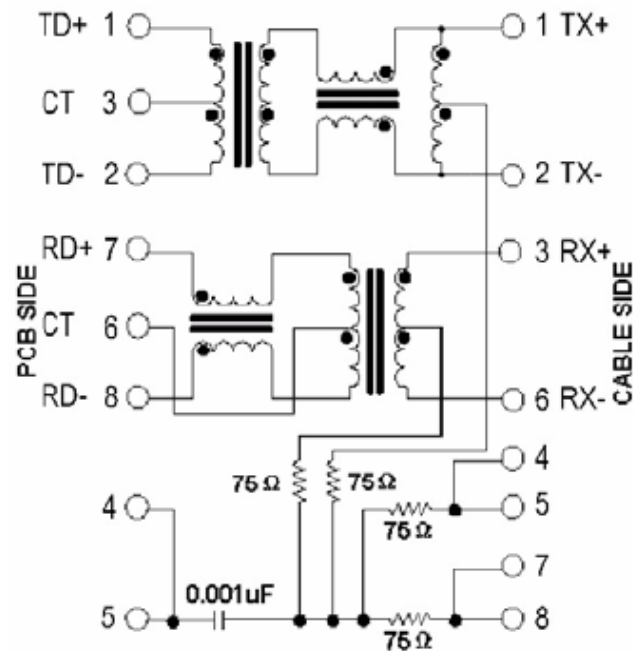
RJ3247F-1201



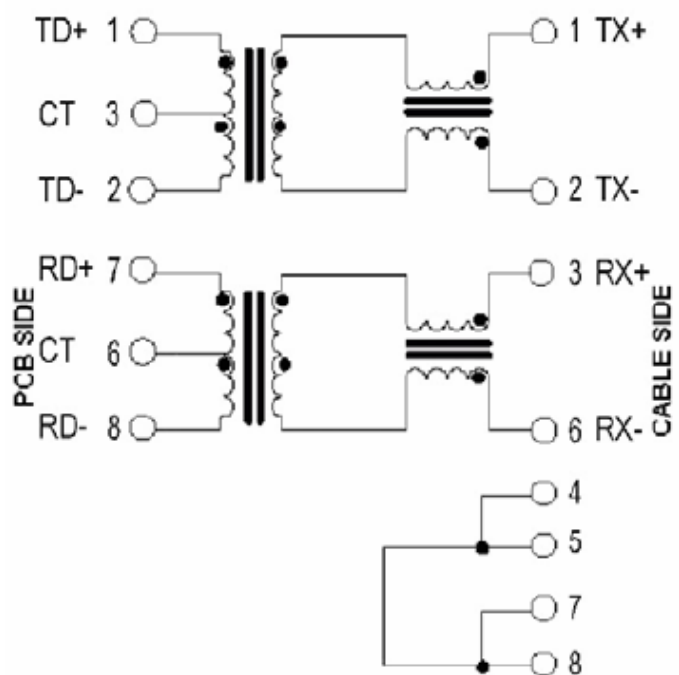
RJ3247F-1202



RJ3247F-1203



RJ3247F-1204





RJ3247F SERIES ~

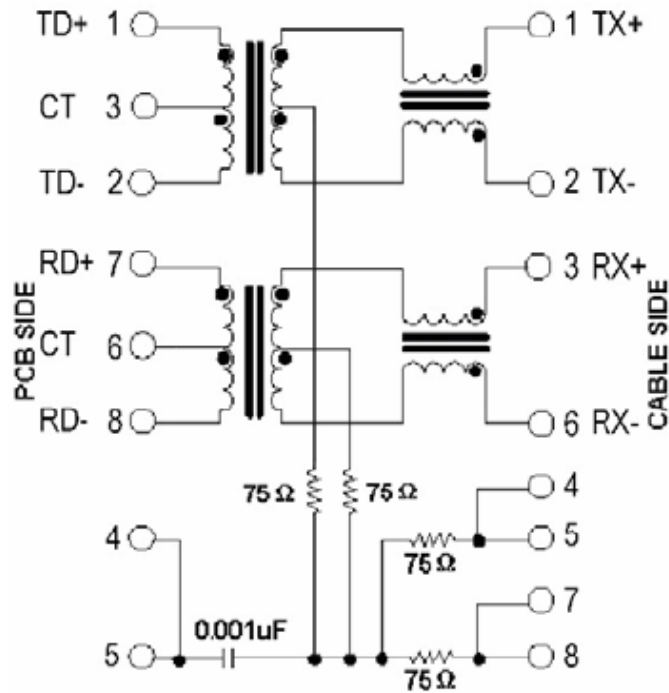
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE



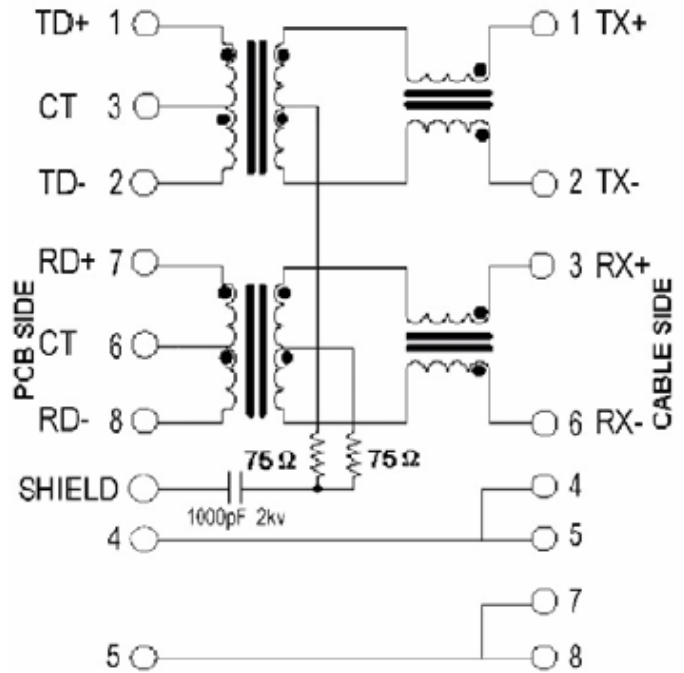
RoHS Compliant

SCHEMATICS

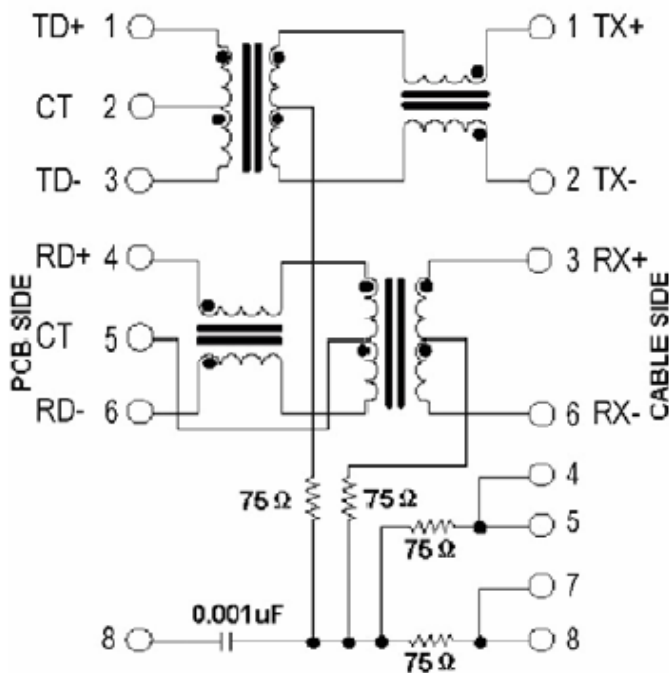
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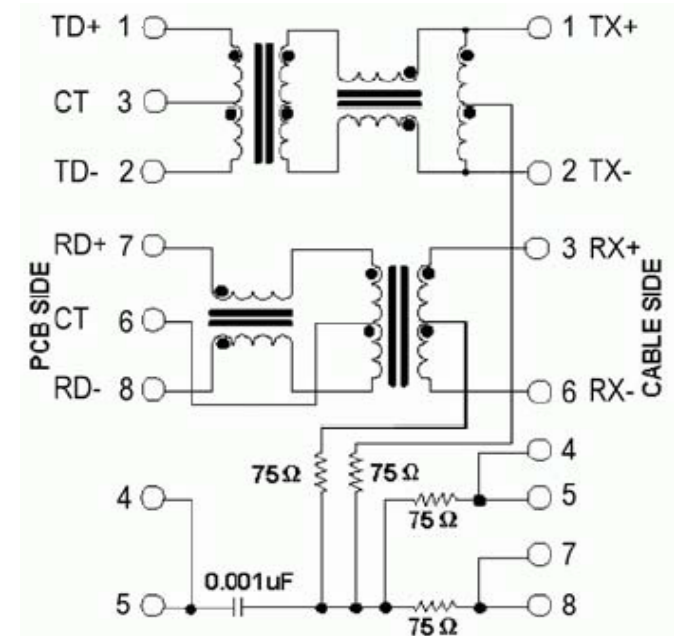
RJ3247F-1205B



RJ3247F-1206



RJ3247F-1207A



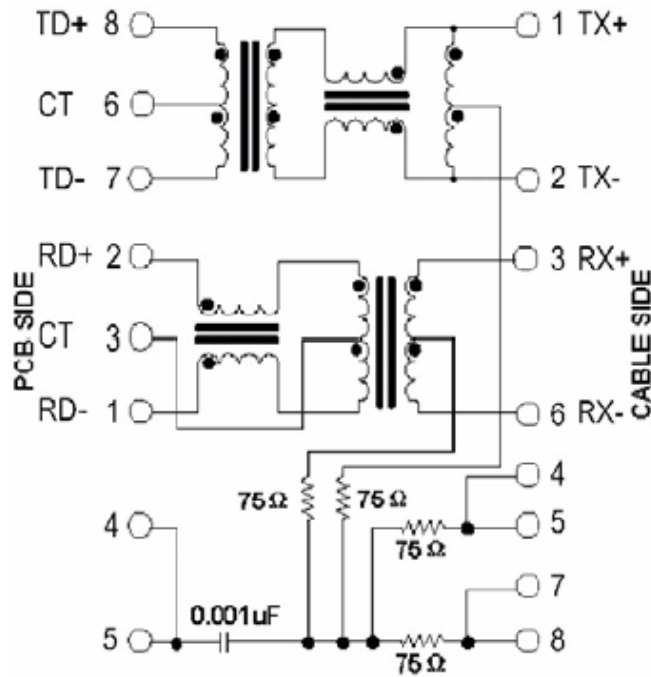


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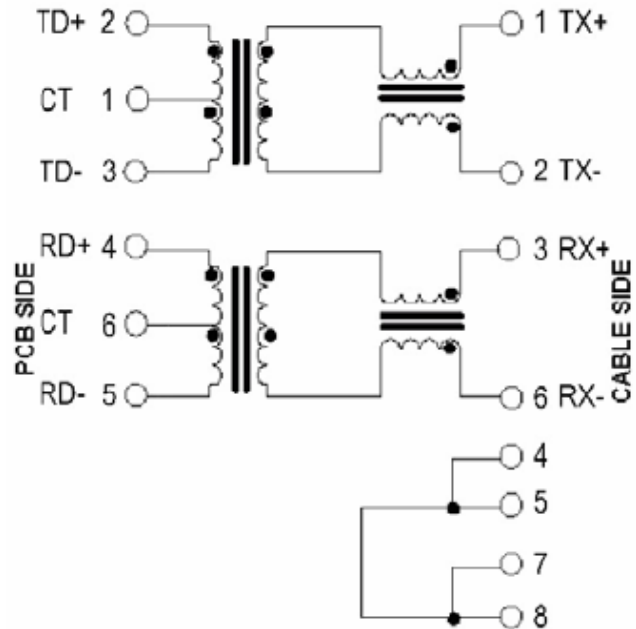
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

SCHEMATICS

RJ3247F-1207B

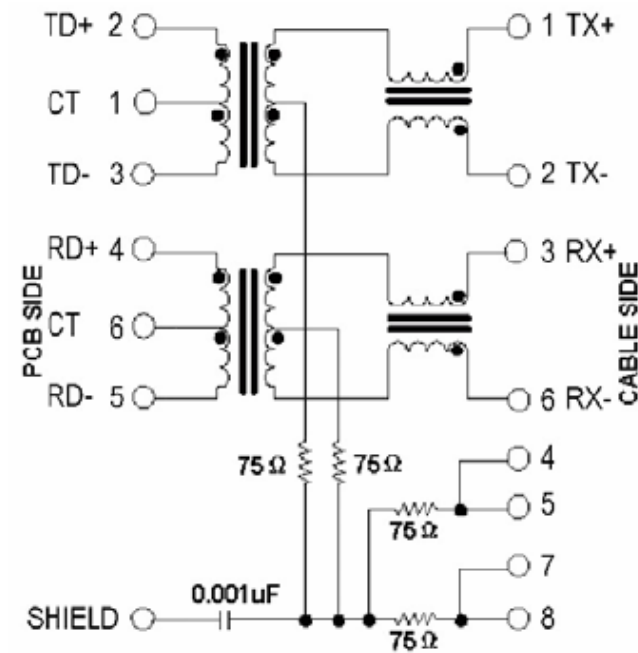


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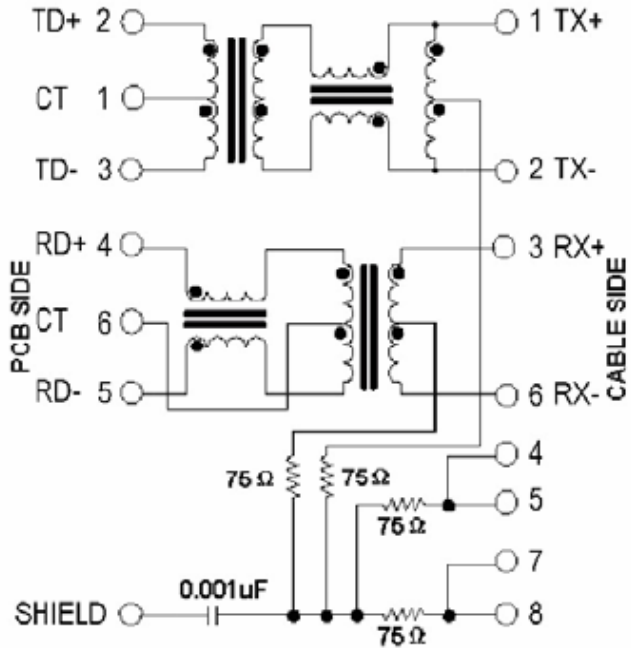


RoHS Compliant

RJ3247F-1212



RJ3247F-1213



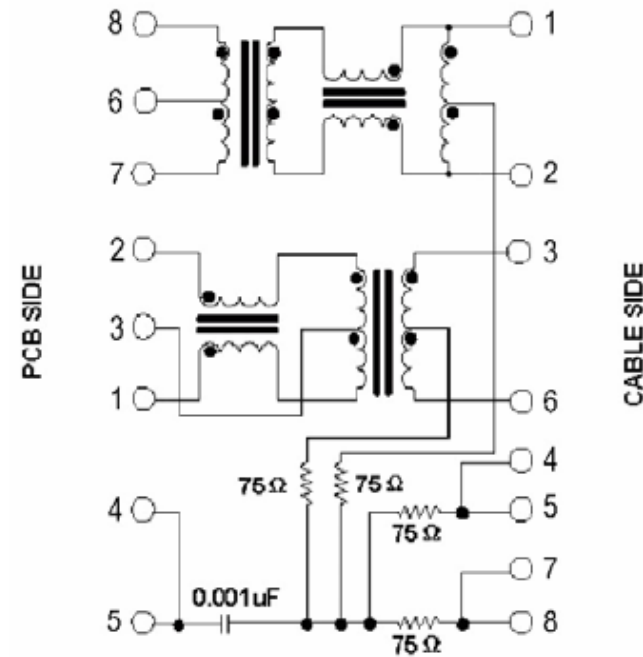


RJ3247F SERIES ~

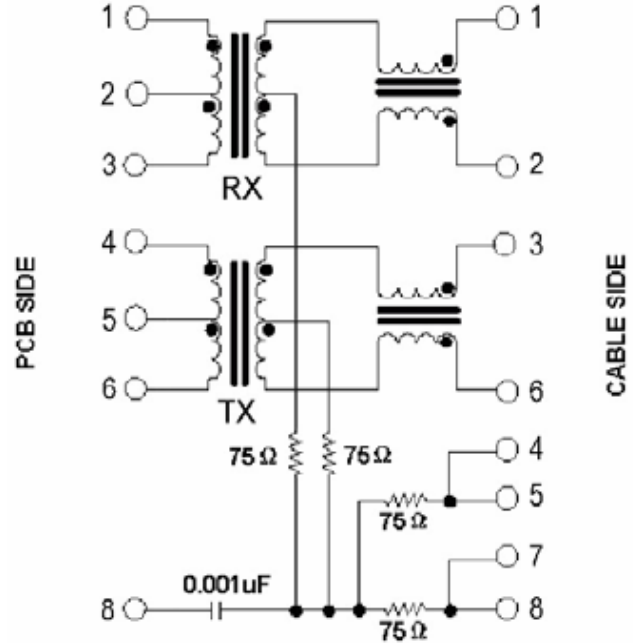
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

SCHEMATICS

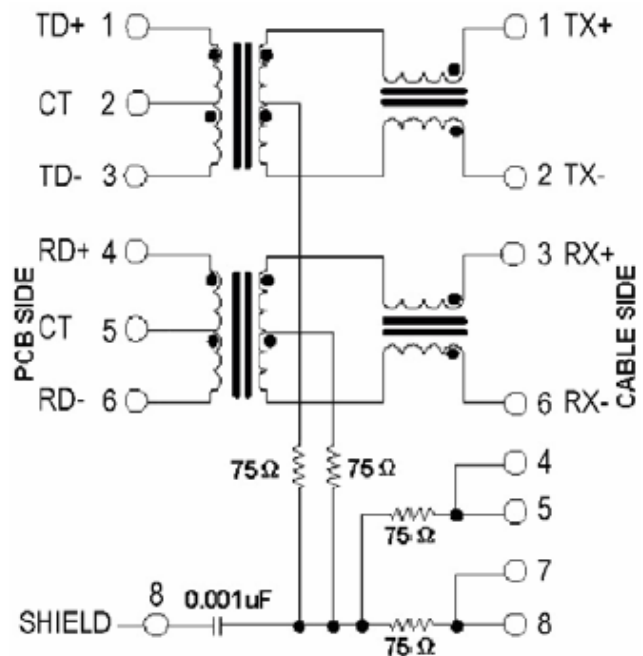
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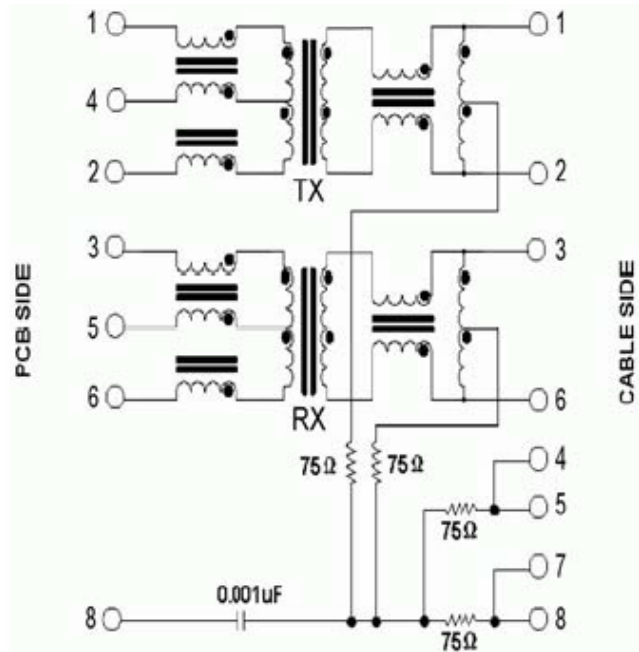
RJ3247F-1215



RJ3247F-1216



RJ3247F-1217



RoHS Compliant

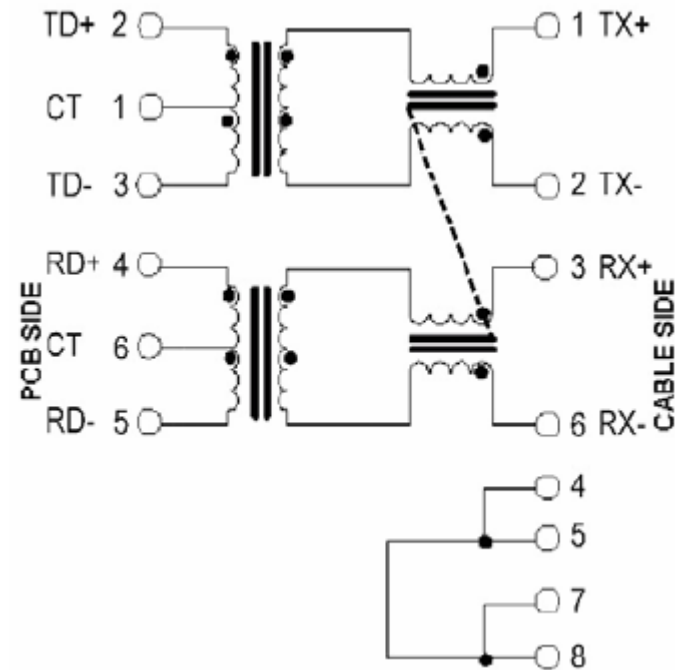


RJ3247F SERIES ~

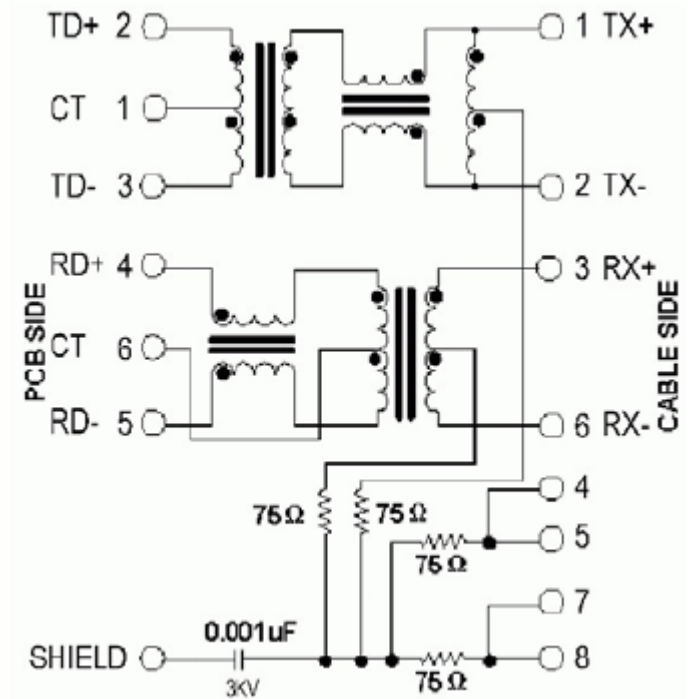
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

SCHEMATICS

RJ3247F-1218



RJ3247F-1218A



RoHS Compliant



RJ3248F SERIES ~

THROUGH HOLE TAB DOWN RJ-45 JACK WITH Gigabit MAGNETIC



RoHS Compliant

FEATURES

- Single port Tab-Down with internal magnetics for 1000 Base-Tx
- 350uH minimum OCL with 8mA bias current
- Internal magnetics options available
- Minimum 1500Vrms isolation

ELECTRICAL SPECIFICATIONS

P/N	Insertion Loss (dB Typ.)	Return Loss 100Ω (dB Typ.) MHz				Common Mode Rejection (dB Typ.) MHz			Cross Talk (dB Typ.) MHz			Hipot Vrms Typ.
	0.3-100MHz	1~30	40	50	60-80	30	60	100	30	60	100	1500
RJ3248F-01GYD5-LF	-1.2	-16	-13.5	-11.5	-10	-35	-32	-30	-40	-36	-30	1500
RJ3248F-02GYD5-LF	-1.2	-16	-13.5	-11.5	-10	-35	-32	-30	-40	-36	-30	1500
RJ3248F-03GYD5-LF	-1.2	-16	-13.5	-11.5	-10	-35	-32	-30	-40	-36	-30	1500
RJ3248F-04GYD5-LF	-1.2	-16	-13.5	-11.5	-10	-35	-32	-30	-40	-36	-30	1500
RJ3248F-01ND5-LF	-1.2	-14	-13.5	-11.5	-10	-35	-32	-30	-40	-36	-30	1500
RJ3248F-02ND5-LF	-1.2	-14	-13.5	-11.5	-10	-35	-32	-30	-40	-36	-30	1500
RJ3248F-03ND5-LF	-1.2	-14	-13.5	-11.5	-10	-35	-32	-30	-40	-36	-30	1500
RJ3248F-04ND5-LF	-1.2	-14	-13.5	-11.5	-10	-35	-32	-30	-40	-36	-30	1500



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E-mail : info@coilmaster.com.tw

Web Site : www.coilmaster.com.tw

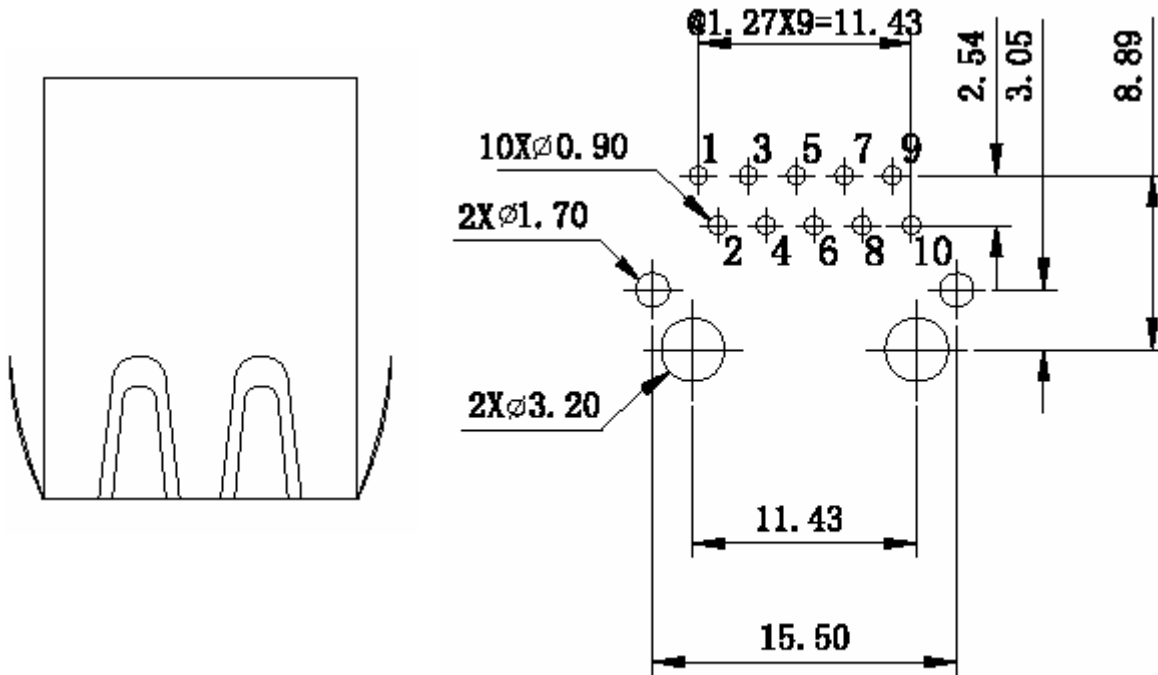
RJ3248F SERIES ~

THROUGH HOLE TAB DOWN RJ-45 JACK WITH Gigabit MAGNETIC

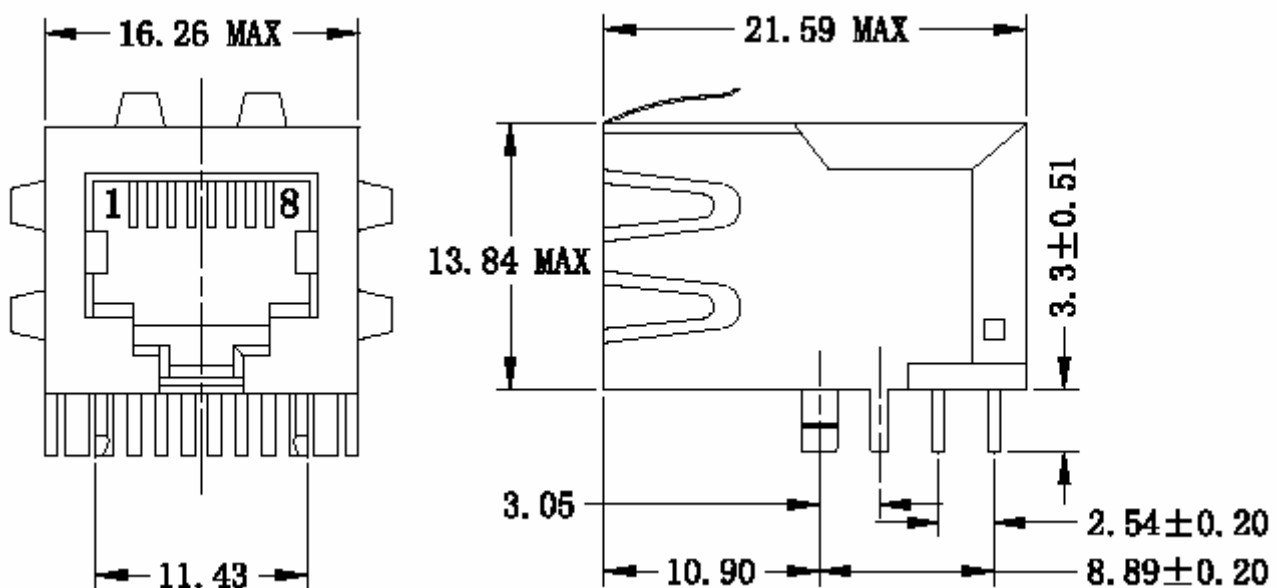


RoHS Compliant

NO LED JACK



PC Board Layout
Component Side Shown



※Unit : m/m , all tolerances are ± 0.25



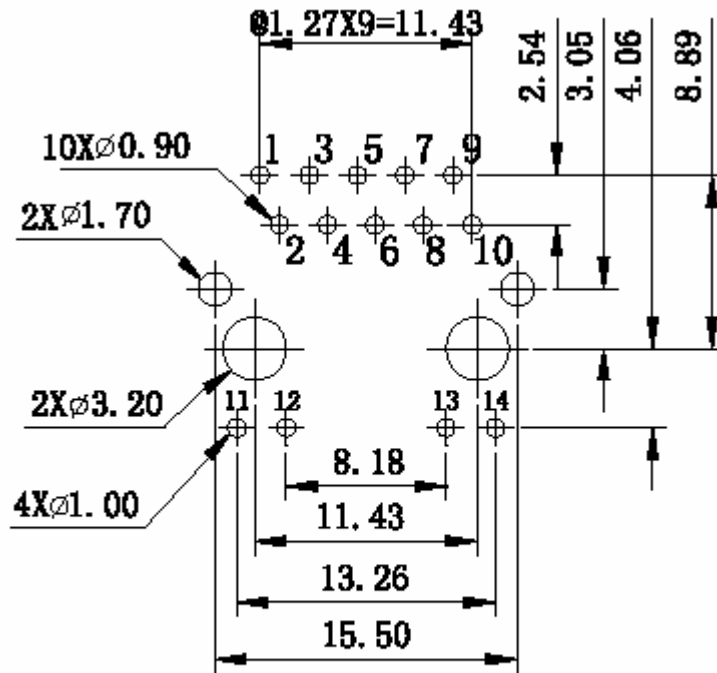
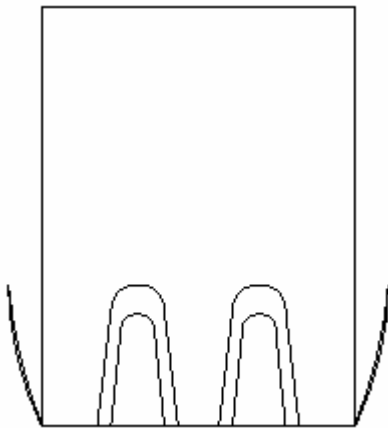
RJ3248F SERIES ~

THROUGH HOLE TAB DOWN RJ-45 JACK WITH Gigabit MAGNETIC

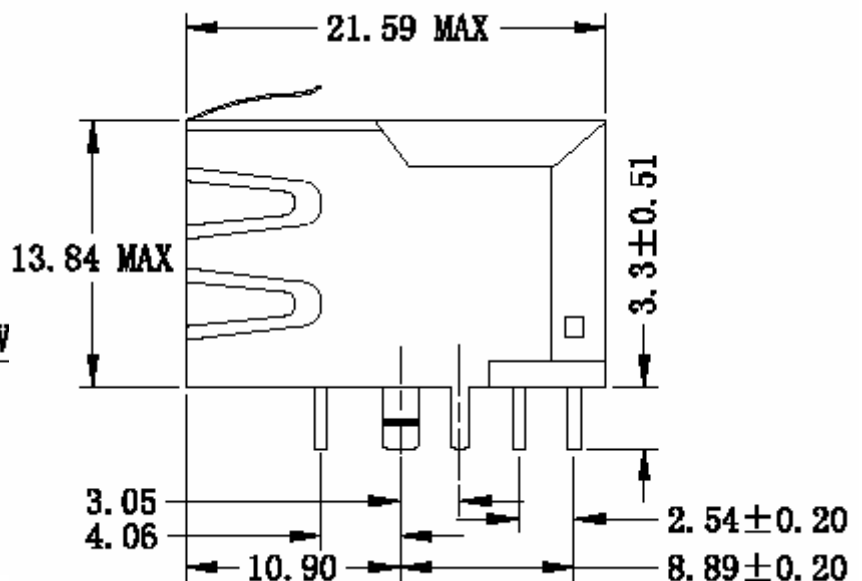
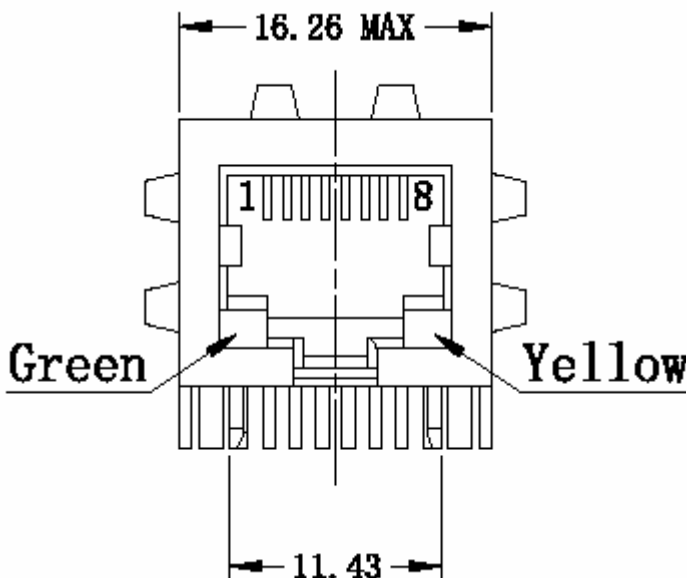


RoHS Compliant

LED JACK



PC Board Layout
Component Side Shown



※Unit : m/m , all tolerances are ± 0.25

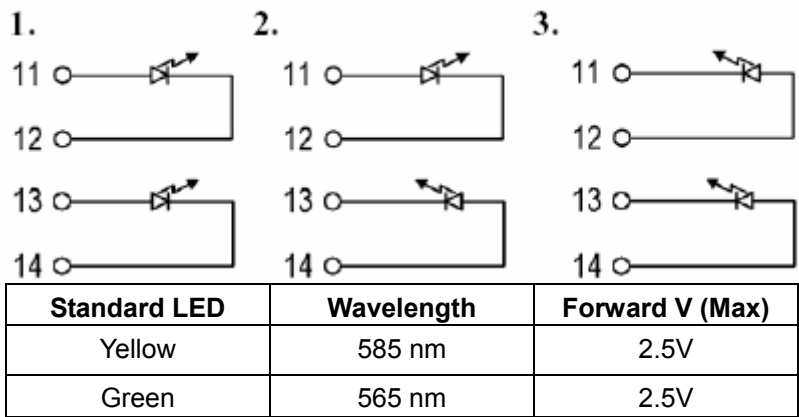


RJ3248F SERIES ~

THROUGH HOLE TAB DOWN RJ-45 JACK WITH
Gigabit MAGNETIC

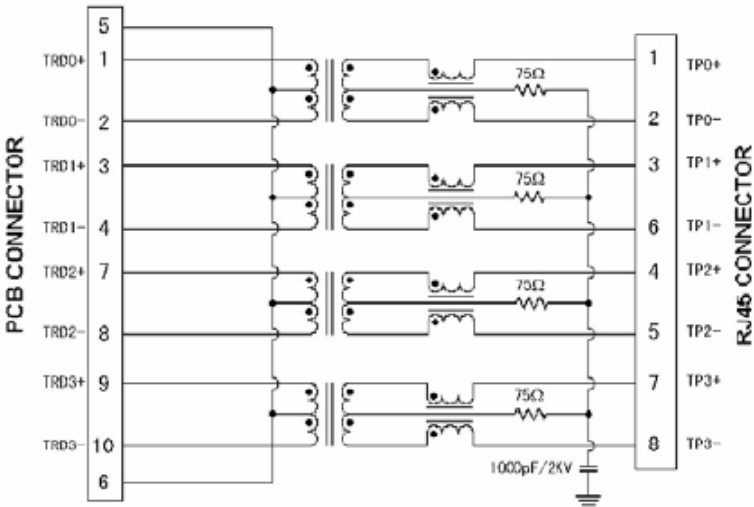


RoHS Compliant

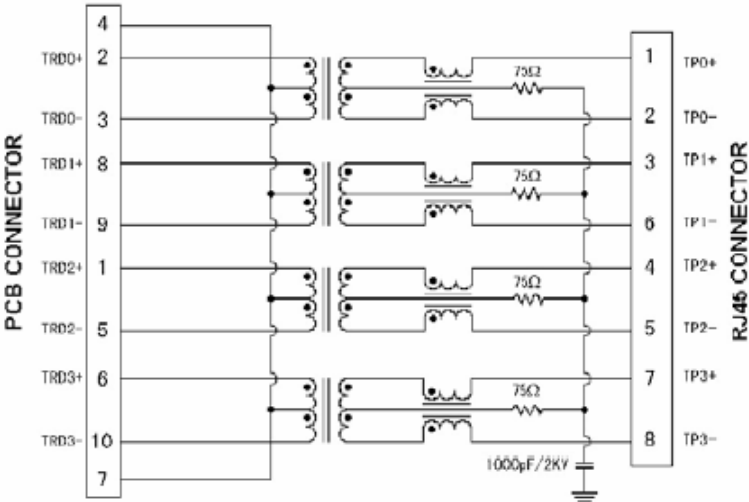


※With a forward current of 20mA

SCHEMATICS
RJ3248F-01



RJ3248F-02



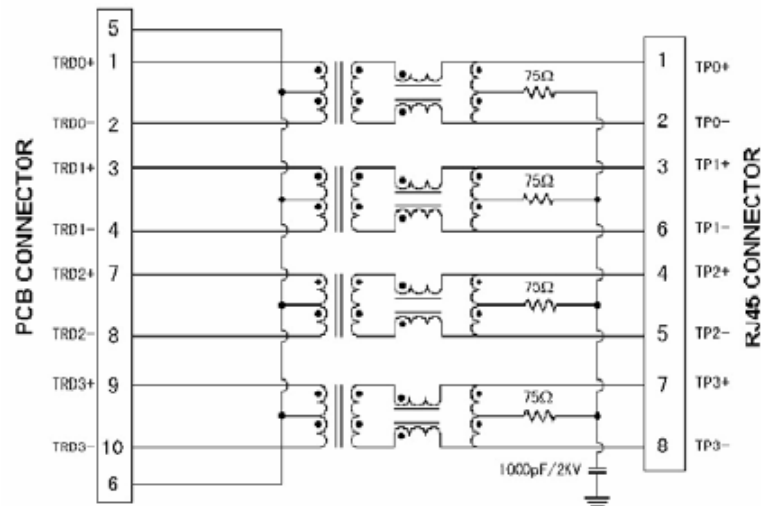


RJ3248F SERIES ~

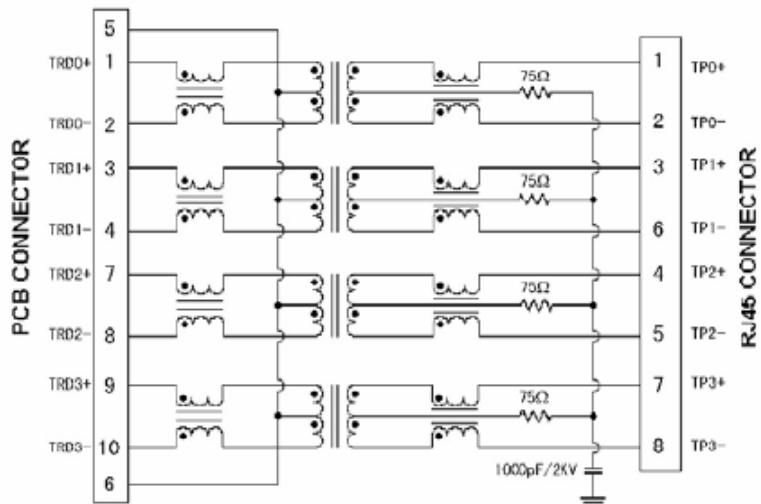
THROUGH HOLE TAB DOWN RJ-45 JACK WITH Gigabit MAGNETIC

SCHEMATICS

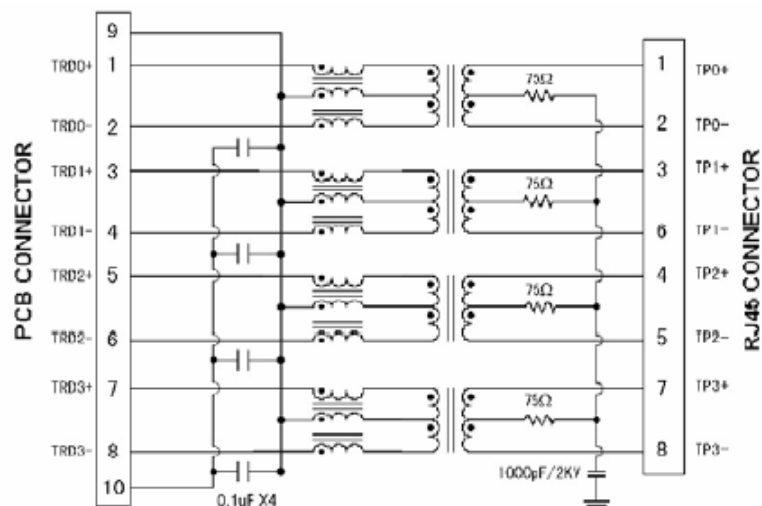
RJ3248F-03



RJ3248F-04



RJ3248F-07



RoHS Compliant

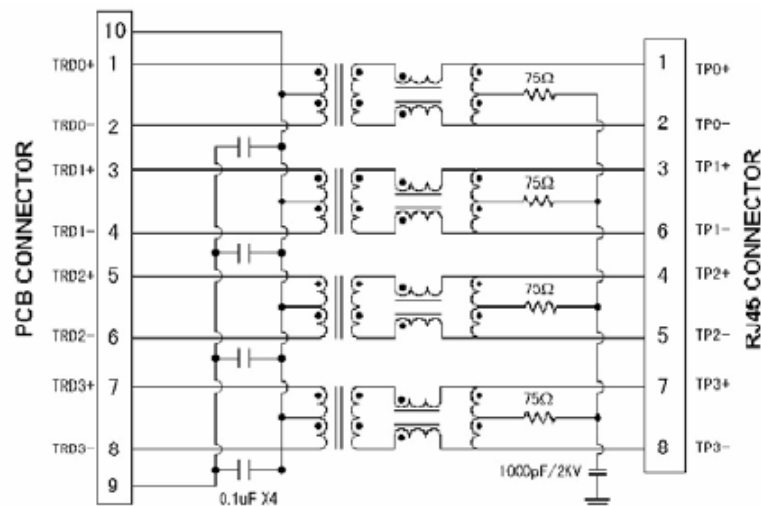


RJ3248F SERIES ~

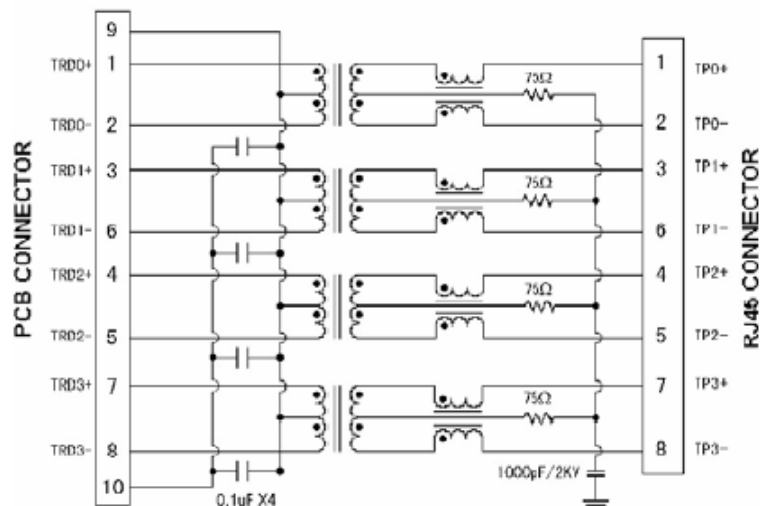
THROUGH HOLE TAB DOWN RJ-45 JACK WITH Gigabit MAGNETIC

SCHEMATICS

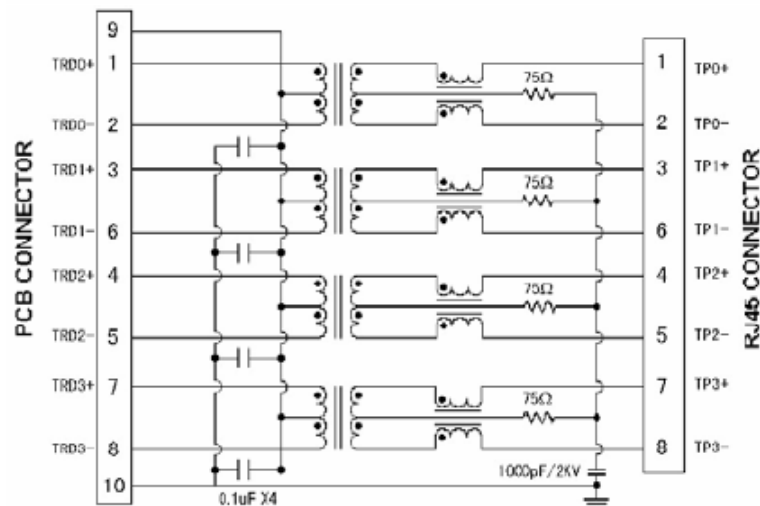
RJ3248F-08



RJ3248F-09



RJ3248F-09A



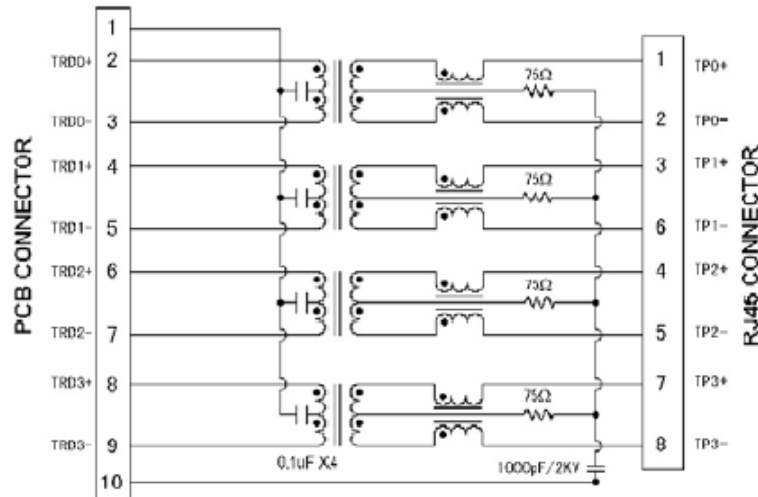


RJ3248F SERIES ~

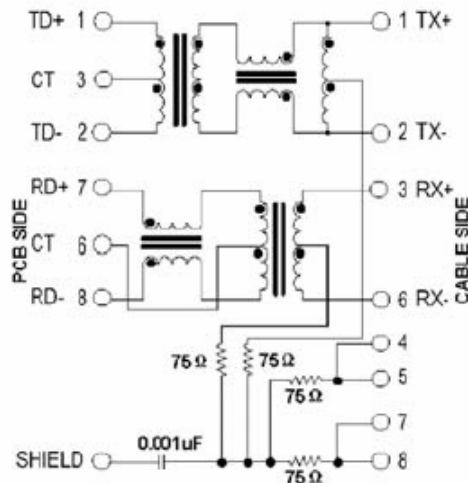
THROUGH HOLE TAB DOWN RJ-45 JACK WITH Gigabit MAGNETIC

SCHEMATICS

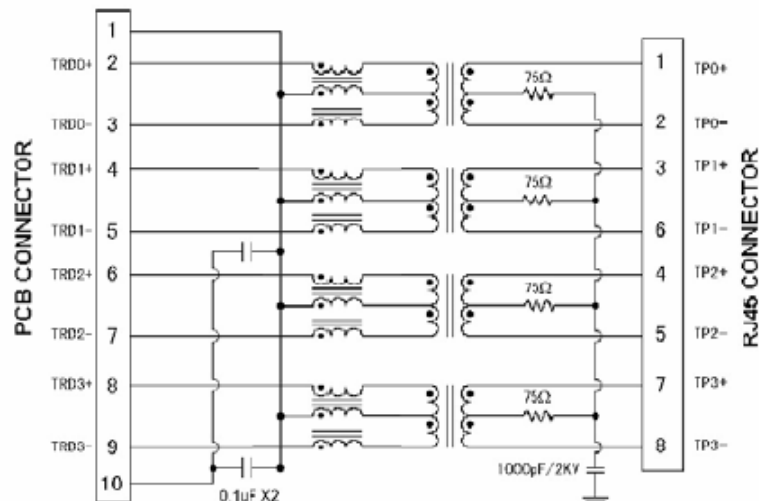
RJ3248F-10



RJ3248F-11



RJ3248F-12

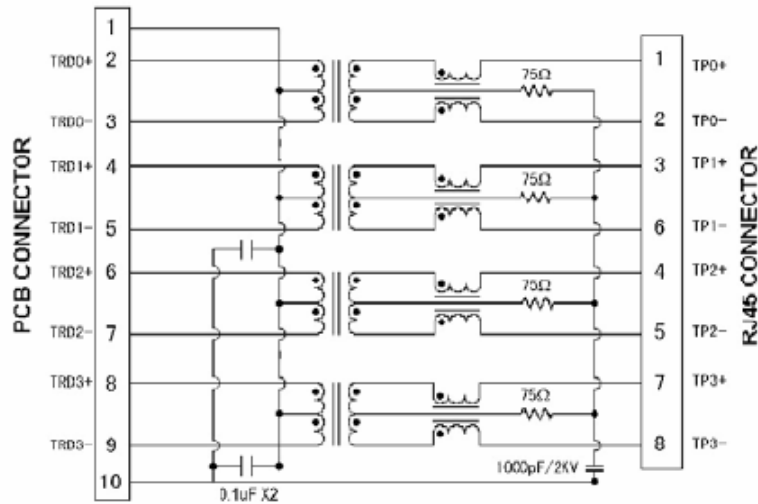


RJ3248F SERIES ~

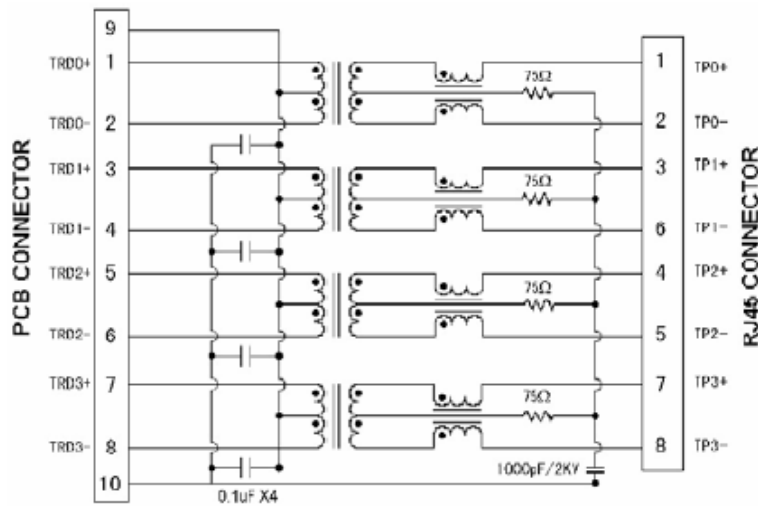
THROUGH HOLE TAB DOWN RJ-45 JACK WITH Gigabit MAGNETIC

SCHEMATICS

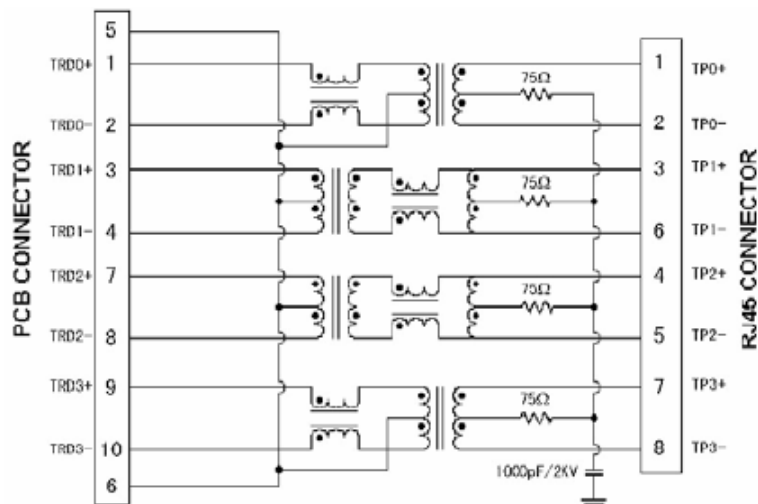
RJ3248F-13



RJ3248F-14



RJ3248F-15



RoHS Compliant

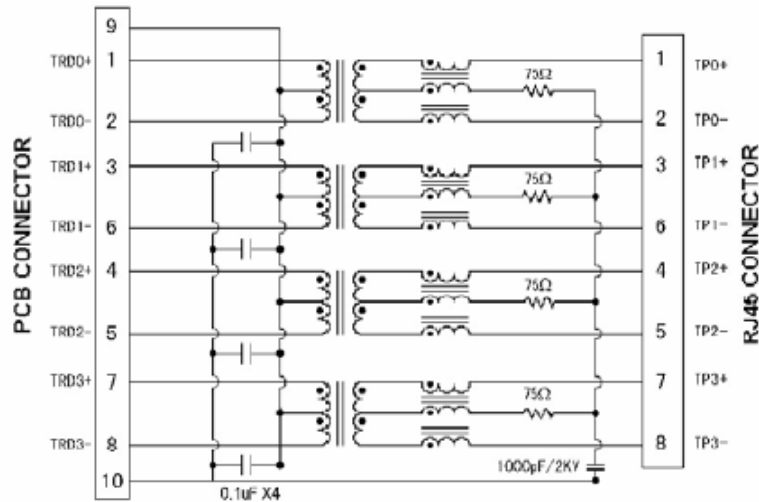


RJ3248F SERIES ~

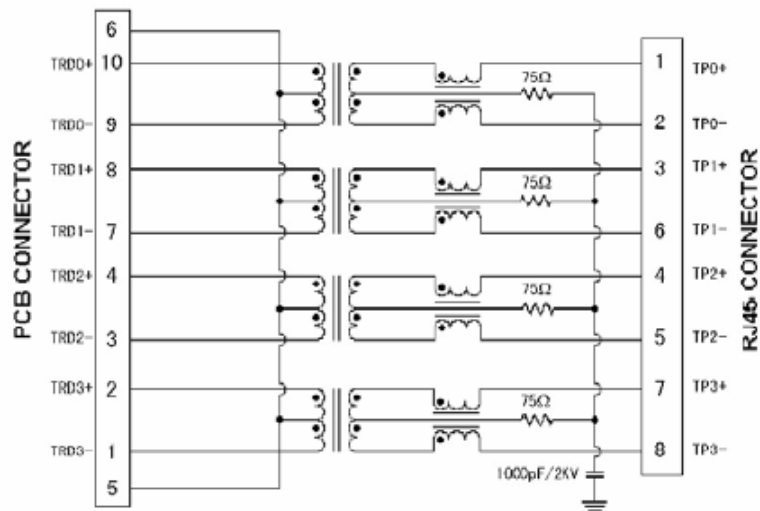
THROUGH HOLE TAB DOWN RJ-45 JACK WITH Gigabit MAGNETIC

SCHEMATICS

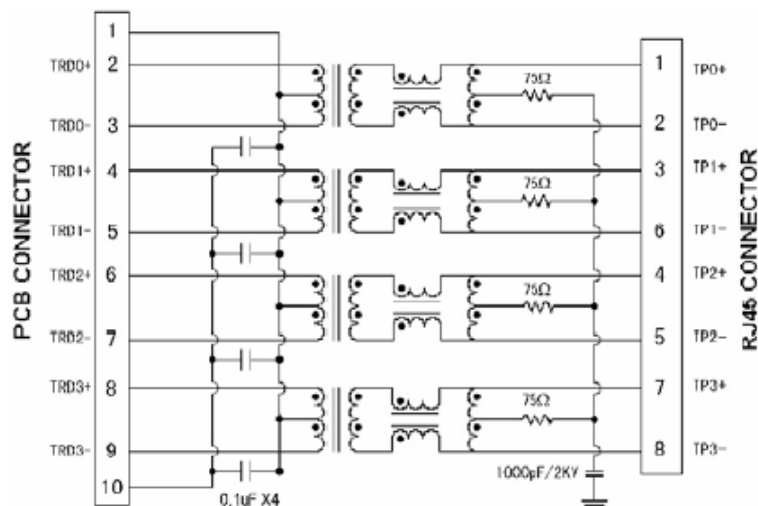
RJ3248F-16



RJ3248F-17



RJ3248F-18



RoHS Compliant

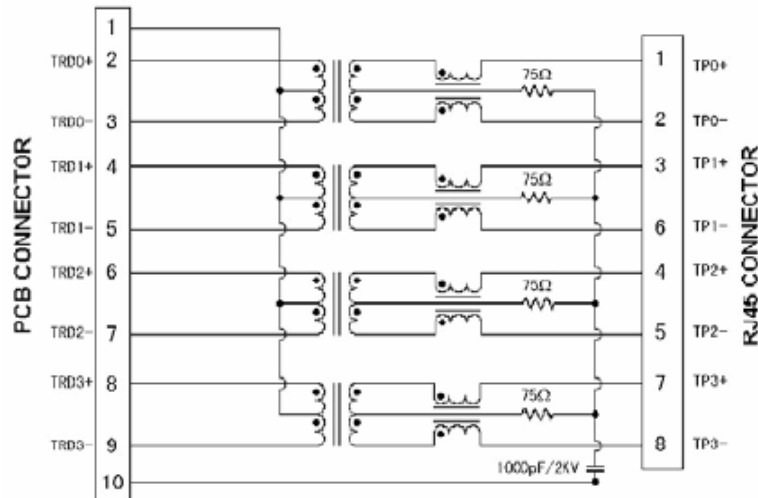


RJ3248F SERIES ~

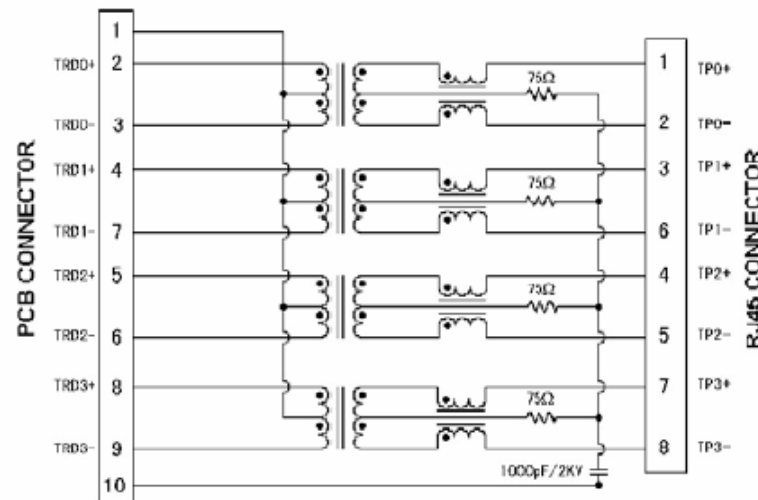
THROUGH HOLE TAB DOWN RJ-45 JACK WITH Gigabit MAGNETIC

SCHEMATICS

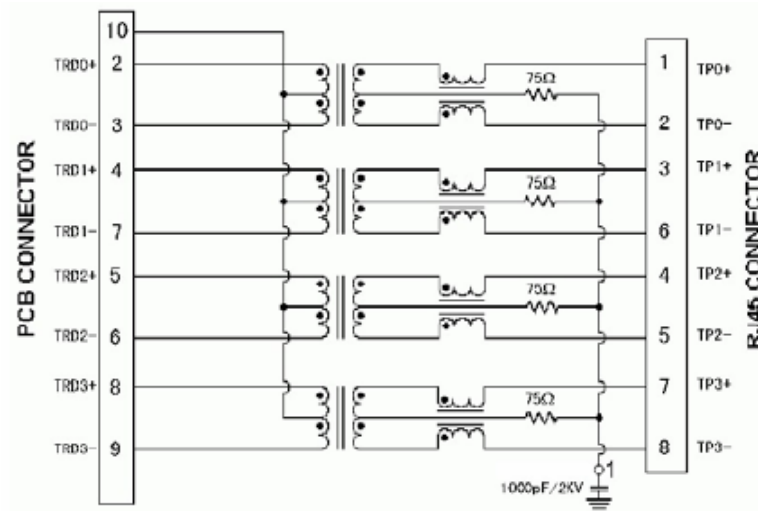
RJ3248F-19



RJ3248F-20



RJ3248F-21



RoHS Compliant



RJ3248F SERIES ~

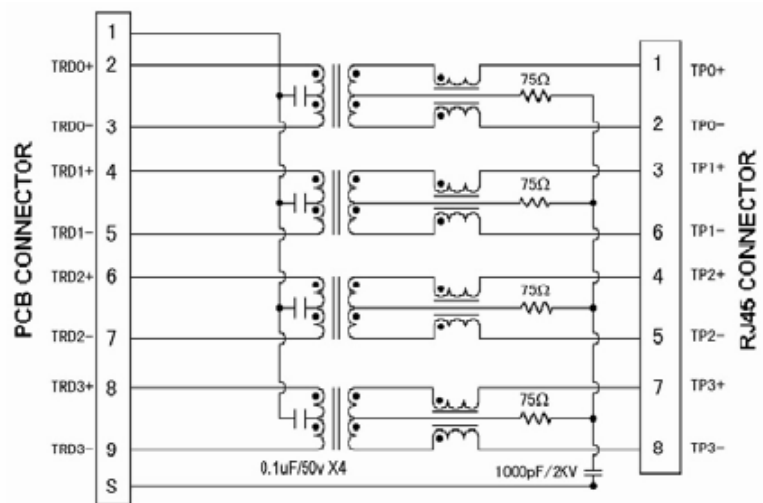
THROUGH HOLE TAB DOWN RJ-45 JACK WITH Gigabit MAGNETIC

SCHEMATICS

RJ3248F-22



RoHS Compliant





Coilmaster Electronics Co., Ltd.

PART NUMBERING SYSTEM

RJ32 — **D0012B** — **X** — **X** — **LF**
Type Model Mechanical LED table Lead Free

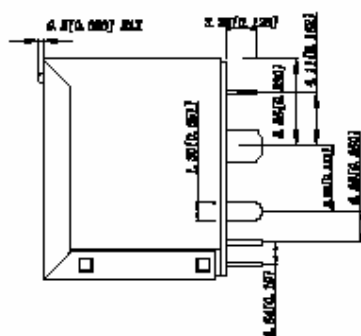
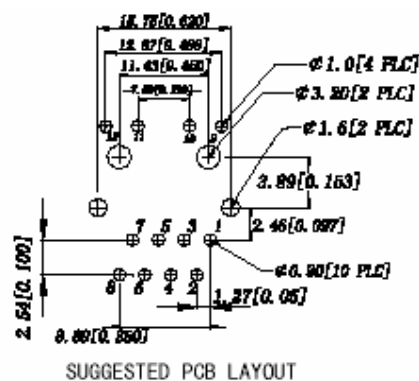
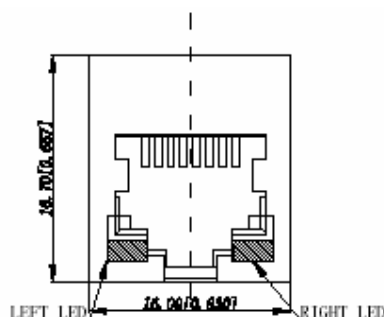
(1) LED ordering options :

LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
G	Y	G	
H	G	Y	
W	G	G	



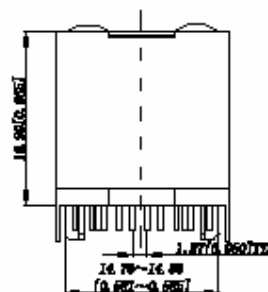
RoHS Compliant

SHAPES AND DIMENSIONS



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

Schematic



Vertical RJ45 Connector

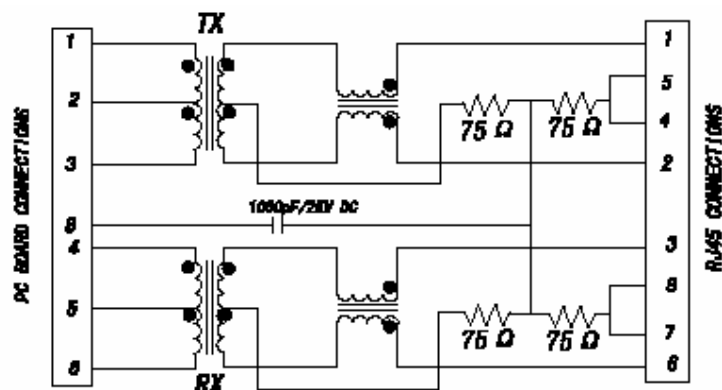
With 10/100

Base-TX Magnetics



Coilmaster Electronics Co., Ltd.

Schematics



FEATURES

1. Available in **Tape & Reel** format
2. SMT product available with or without LEDs
3. Internal magnetics : 100% electrically tested for Hi-Pot & continuity
4. For RoHS part add suffix LF
5. **RoHS compliant peak solder rating 235°C**

ELECTRICAL CHARACTERISTICS @ 25°C --- Operating Temperature 0°C to 70°C

PART NUMBER	Turns Ratios (0.1MHz/0.1V)		Insertion Loss (dB Max.)	Return loss (dB) MHz				Crosstalk (dB) MHz			Hipot (Vrms Min)
	TX	RX		1-65MHz	1-10	10-30	30-60	60-100	1-30	30-60	
RJ32-D0012B-LF	1:1	1:1	-1.0	-20	-16	-12	-10	-40	-35	-30	1500
PART NUMBER	LX (0.1MHz/0.1V /8mA DC bias)			DCR (Ω) (Max.)				CMR (dB) Min. MHz			
				(P1-P2,J1-J2,J3-J6)		P7-P8	1-50		50-150		
RJ32-D0012B-LF	350uH Min			1.0		1.2		-30		-20	

Through Hole Tab-Down RJ45 Jack with Gigabit Magnetic



Coilmaster Electronics Co., Ltd.

PART NUMBERING SYSTEM

RJ32 — **G080X** — **X** — **X** — **LF**
Type Model Mechanical LED table Lead Free

(1) RJ32 Series Mechanical :

A	With LED and EMI-Finger (10P8C)
B	With LED and Non EMI-Finger (10P8C)
C	Without LED with EMI-Finger (10P8C)
D	Without LED and EMI-Finger (10P8C)



RoHS Compliant

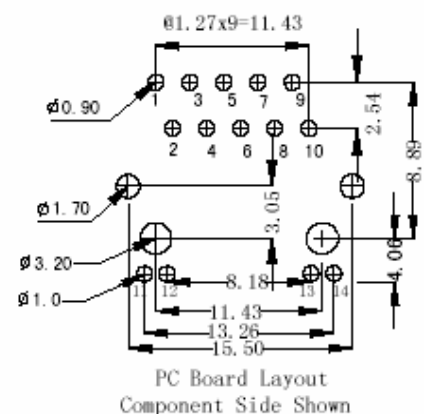
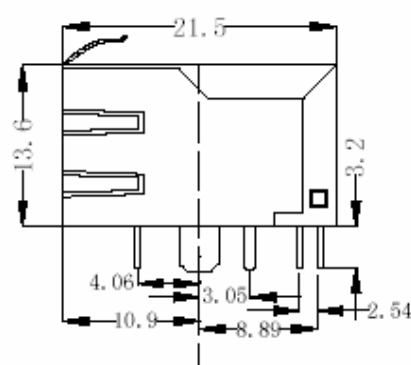
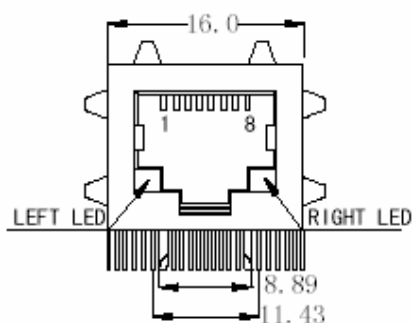
(2) LED ordering options :

LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
A	Y	G	11
B	G	Y	12
C	G	G	14
D	Y	G	13
E	G	Y	11
F	G	G	12
V	G	OG	13



SHAPES AND DIMENSIONS

A



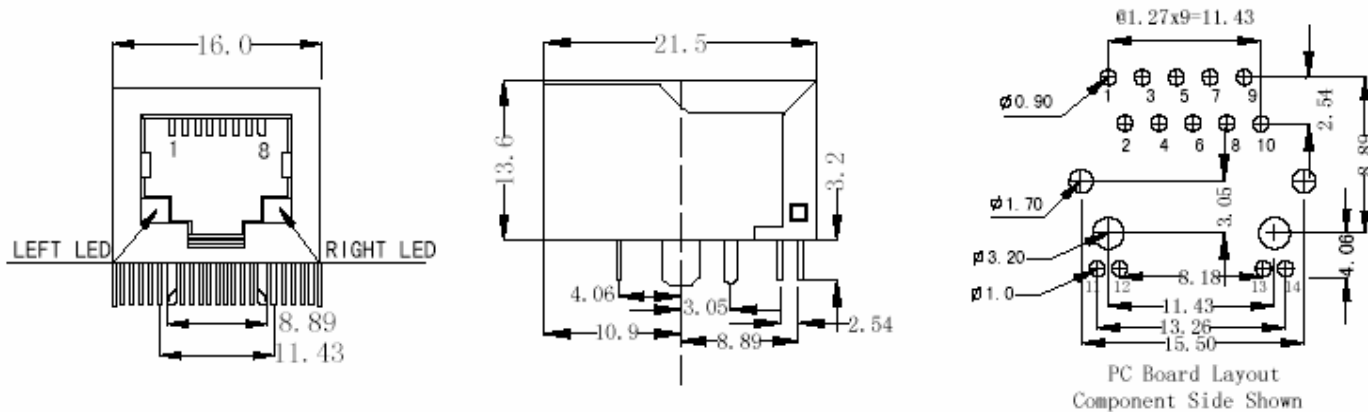
Through Hole Tab-Down RJ45 Jack with Gigabit Magnetic



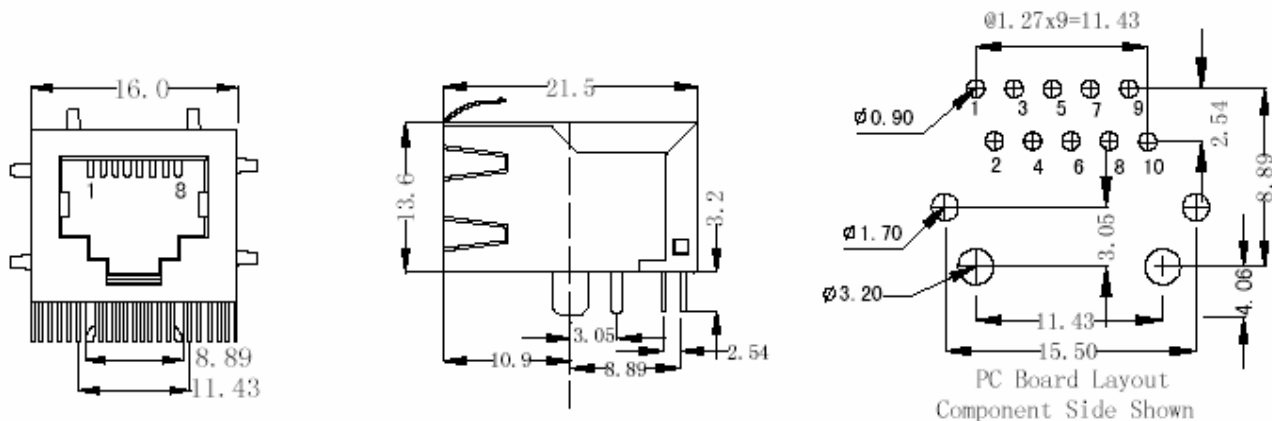
Coilmaster Electronics Co., Ltd.

SHAPES AND DIMENSIONS

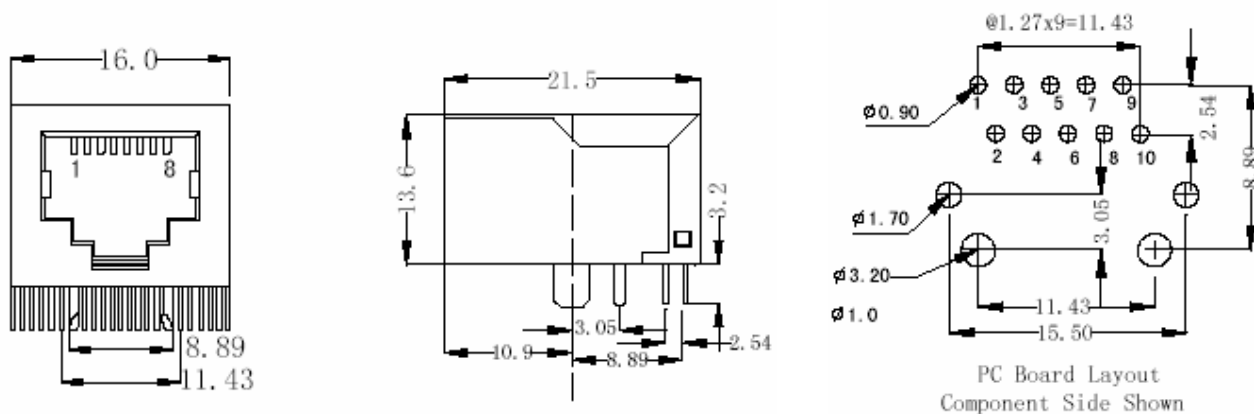
B



C



D



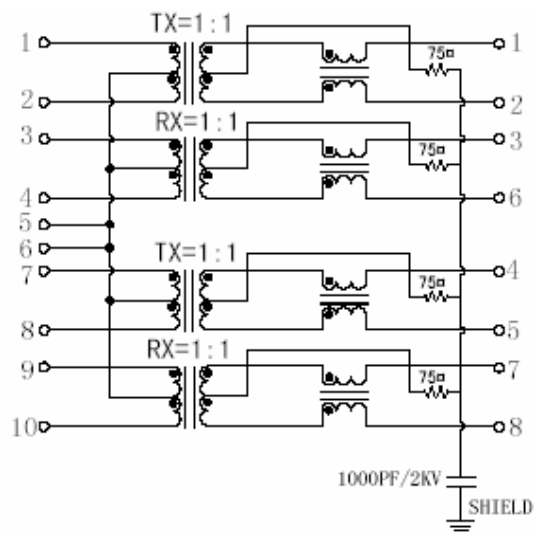
Through Hole Tab-Down RJ45 Jack with Gigabit Magnetic



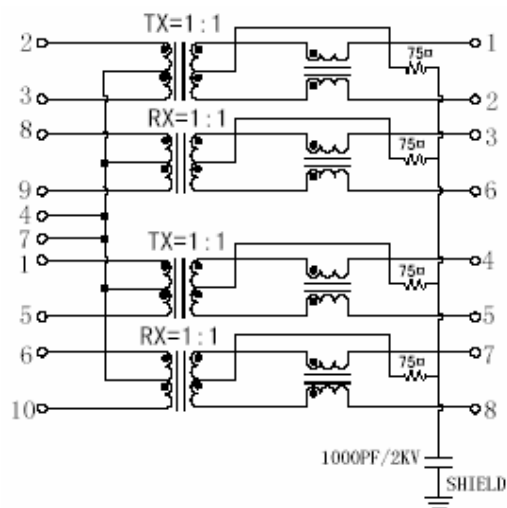
Coilmaster Electronics Co., Ltd.

Schematics

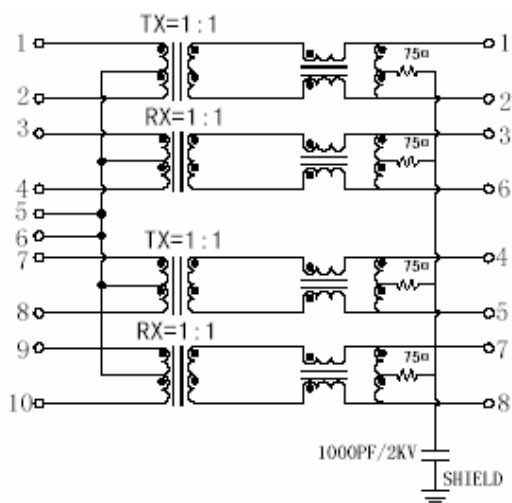
RJ32-G0801-LF



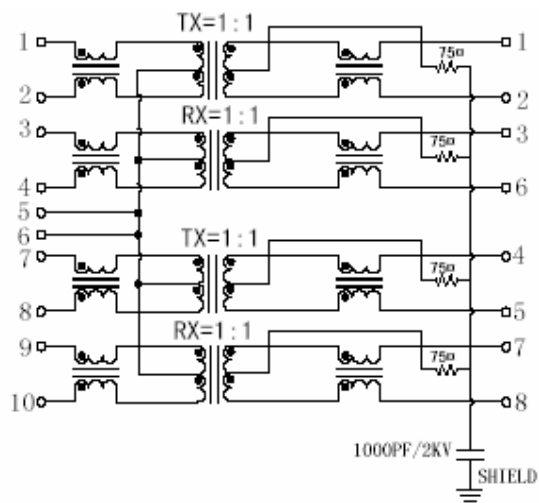
RJ32-G0802-LF



RJ32-G0803-LF



RJ32-G0804-LF



Through Hole Tab-Down RJ45 Jack with Gigabit Magnetic



Coilmaster Electronics Co., Ltd.

FEATURES

1. Single port Tab-Down with internal magnetics for 1000 Base-TX .
2. **Internal magnetics options available**
3. 350uH min. OCL with 8mA bias current
4. RoHS compliant peak solder rating 235°C

ELECTRICAL CHARACTERISTICS @ 25°C --- Operating Temperature 0°C to 70°C

PART NUMBER	Turns Ratios		Insertio n Loss (dB typ.)	Return loss (dB typ)@100Ω MHz				Crosstalk (dB Typ) MHz			CMR (dB typ) MHz			Hipot (Vrms)
	TX	RX		1-30	40	50	60-80	30	60	100	30	60	100	
RJ32-G0801-LF	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-35	-32	-30	1500
RJ32-G0802-LF	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-35	-32	-30	1500
RJ32-G0803-LF	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-35	-32	-30	1500
RJ32-G0804-LF	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-35	-32	-30	1500

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

PART NUMBERING SYSTEM



Coilmaster Electronics Co., Ltd.

RJ32 — **G1630X** — **X** — **X** — **LF**
Type Model Mechanical LED table Lead Free

(1) LED ordering options :

LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
U	G	YG	
D	Y	G	
E	G	Y	
F	G	G	
G	Y	G	
H	G	Y	

(2) FEATURES :

- 1x1 Tab-Up 0.85" & 1" long with internal magnetics
- Internal magnetics options available
- 350uH min. OCL with 8mA bias current
- RoHS compliant peak solder rating 235°C**



ELECTRICAL CHARACTERISTICS @ 25°C --- Operating Temperature 0°C to 70°C

PART NUMBER	Turns Ratios		Insertion Loss (dB Typ.)	Return loss (dB Typ.) @100Ω(MHz)				Crosstalk (dB Min) MHz			Differential Common Mode Rejection (dB typ)MHz		
	TX	RX		1-30	40	50	60-80	30	60	100	30	60	100
RJ32-G16301A-LF	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-40	-36	-30
RJ32-G16302A-LF	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-40	-36	-30
RJ32-G16303A-LF	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-40	-36	-30
RJ32-G17302A-LF	1:1	1:1	-1.2	-16	-13.5	-11.5	-10	-40	-36	-30	-40	-36	-30

Hipot : 1500 Vrms

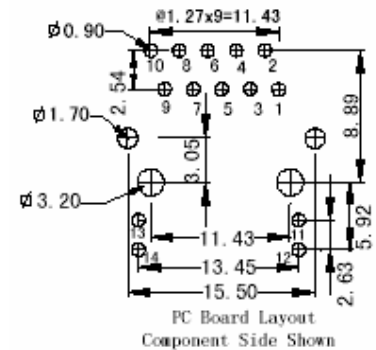
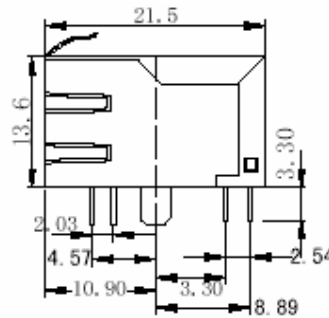
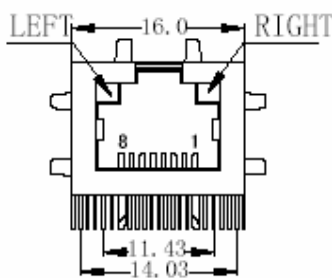
Through Hole Tab-Up RJ45 Jack with 10/100/1000 Magnetic



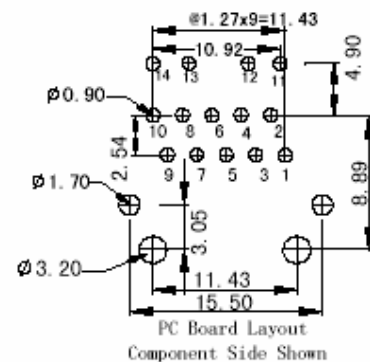
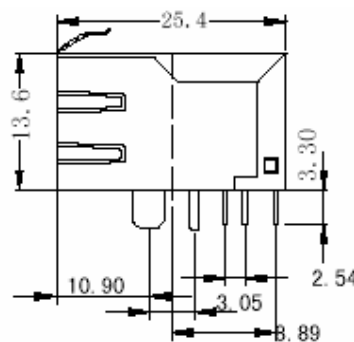
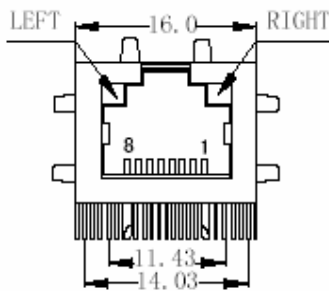
Coilmaster Electronics Co., Ltd.

SHAPES AND DIMENSIONS

RJ32G1630XA, X=1,2,3

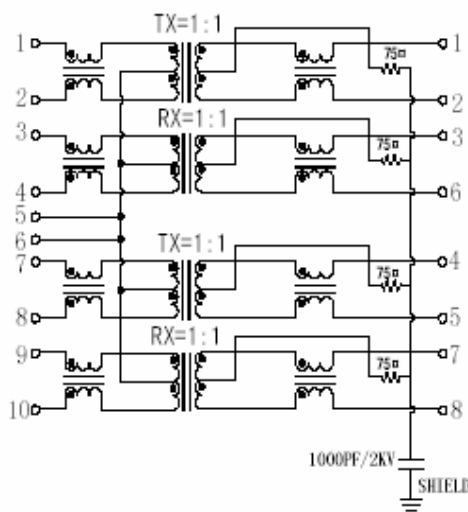


RJ32G17302A

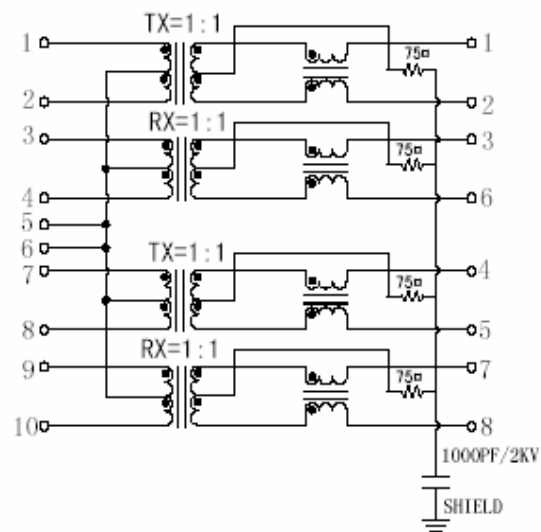


Schematics

RF32G16301



RF32G16302



Through Hole RJ45 Dual USB Jack With 10/100 Magnetics



Coilmaster Electronics Co., Ltd.

PART NUMBERING SYSTEM

RJ32	—	U4101	—	X	—	X	—	LF
Type		Model		Mechanical		LED table		Lead Free

(1) RJ32 Series Mechanical :

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



RoHS Compliant

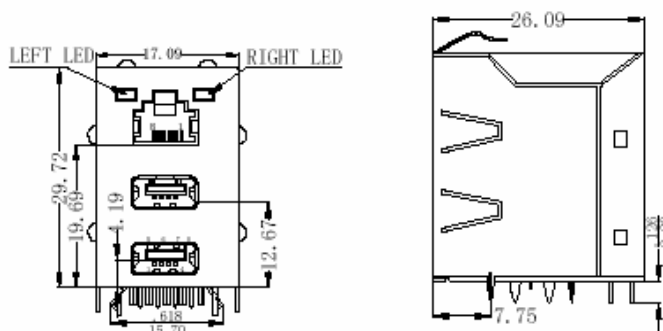
(2) LED ordering options :

LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
L	GO	Y	

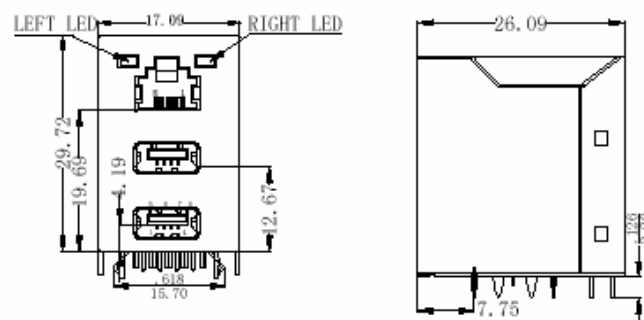


SHAPES AND DIMENSIONS

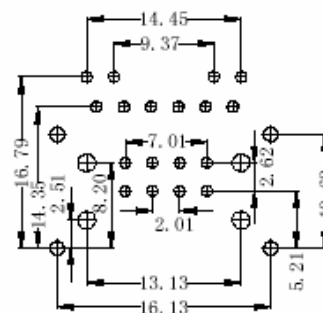
A



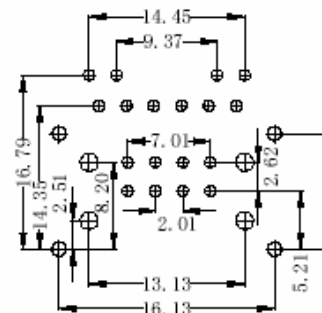
B



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



SUGGESTED FOOTPRINT
(SHOW FROM COMPONENT SIDE)



SUGGESTED FOOTPRINT
(SHOW FROM COMPONENT SIDE)

Through Hole RJ45

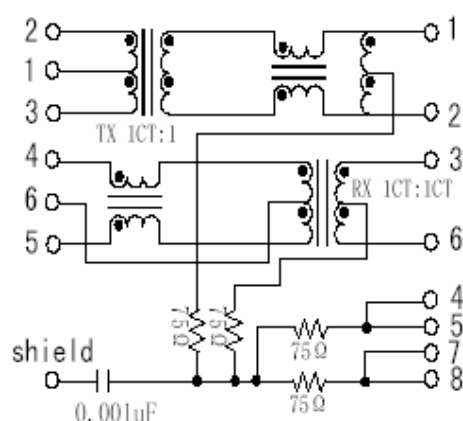
Dual USB Jack

With 10/100 Magnetics



Coilmaster Electronics Co., Ltd.

Schematics



FEATURES

1. LAN interface suitable for **10/100 Base-TX** applications
2. **RJ45 / USB stacked** design saves on PCB real estate
3. USB module complies with **USB 2.0 standards and meets CAT FAST Ethernet** industry performance
4. Meets or exceeds **IEEE 802.3 and ANSI X 3.263 standards** including 350uH min. OCL with 8mA bias
5. **RoHS compliant peak solder rating 235°C**

ELECTRICAL CHARACTERISTICS @ 25°C --- Operating Temperature 0°C to 70°C

PART NUMBER	Turns Ratios		Insertion Loss (dB typ.)	Return loss (dB typ)@100Ω MHz			Crosstalk (dB typ) MHz			CMR (dB typ) MHz	
	TX	RX		1-65MHz	1-10	30	60-80	1-10	30-60	60-100	1-50
RJ32-U4101-LF	1:1	1:1	-1.0	-20	-16	-12	-40	-35	-30	-30	-20

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



Coilmaster Electronics Co., Ltd.

PART NUMBERING SYSTEM

RJ32 — **U5102B** — **X** — **X** — **LF**
Type Model Mechanical LED table Lead Free

(1) LED ordering options :

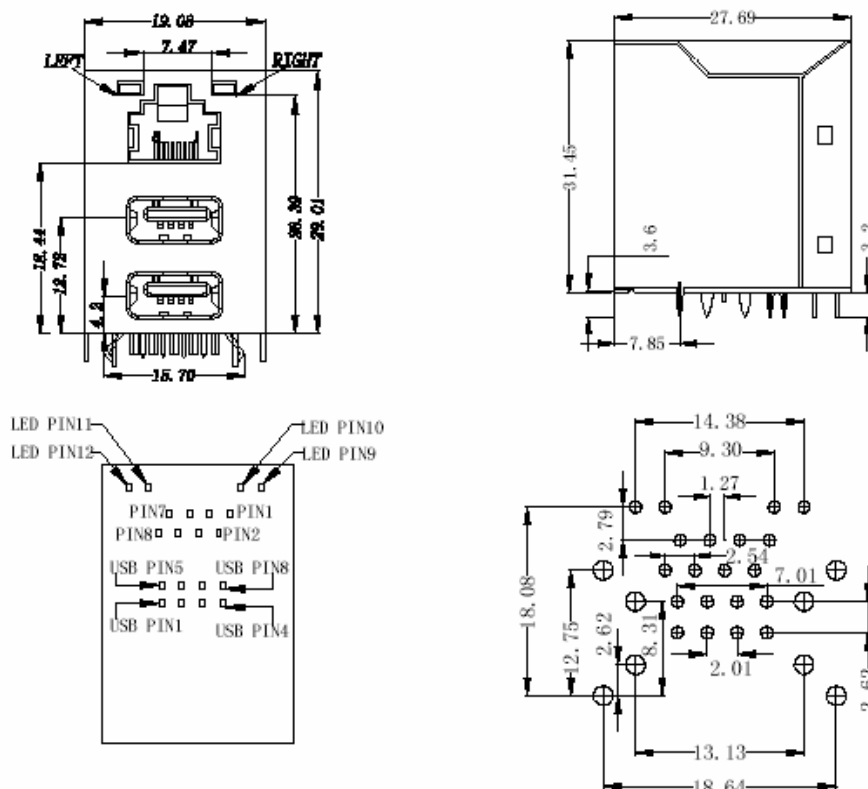
LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
A	Y	G	9
B	G	Y	10
C	G	G	11
P	G	Y	12
Q	GO	Y	13
R	G	GO	14
S	G	GO	15
T	Y	GO	16



RoHS Compliant

SHAPES AND DIMENSIONS

RJ32-U510XB



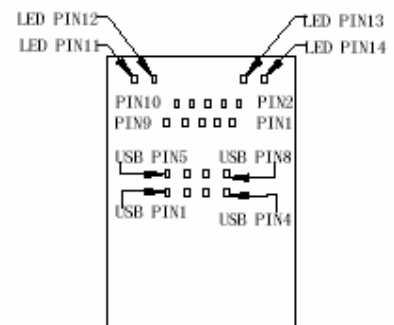
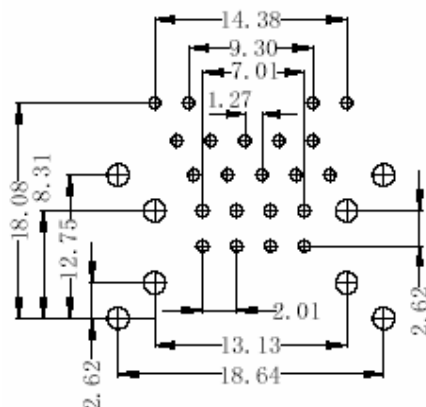
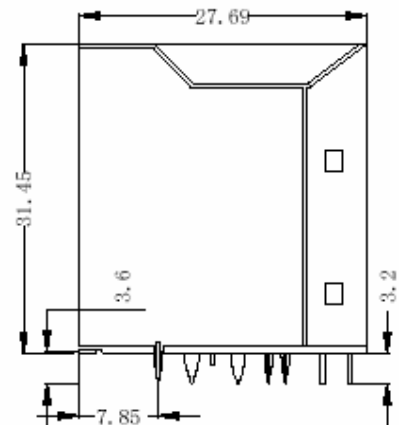
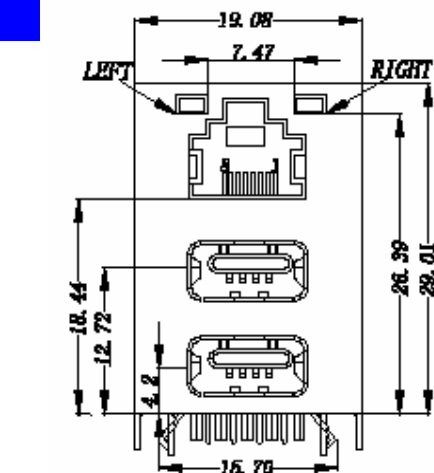
RJ45 10/100/1000 Base-TX Jack / Dual USB Combo



Coilmaster Electronics Co., Ltd.

SHAPES AND DIMENSIONS

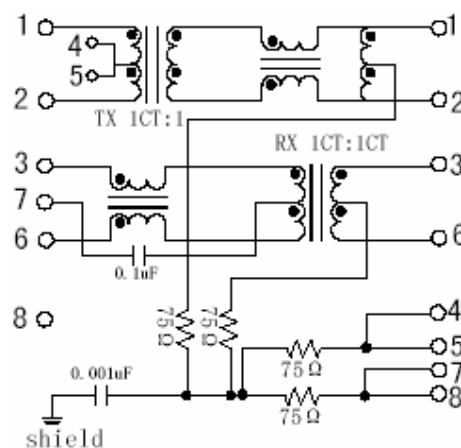
RJ32-U520XB



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

Schematics

RJ32-U5102B



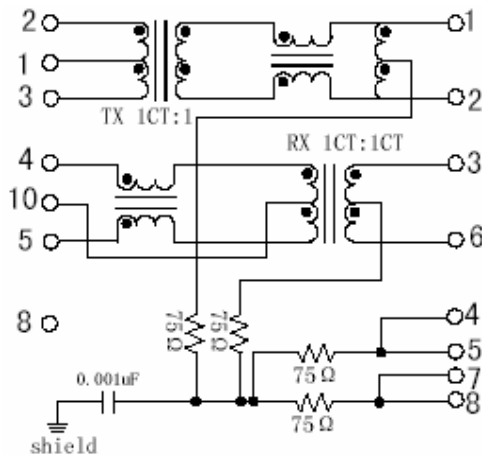
RJ45 10/100/1000 Base-TX Jack / Dual USB Combo



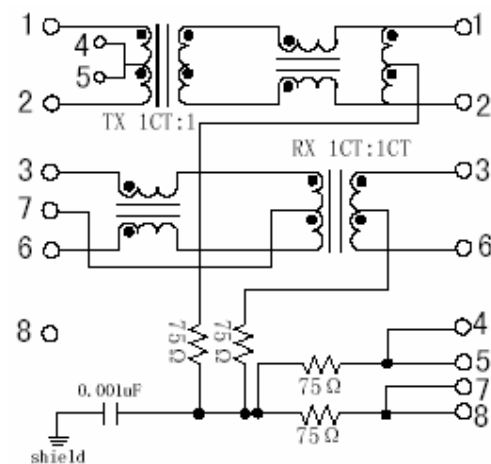
Coilmaster Electronics Co., Ltd.

Schematics

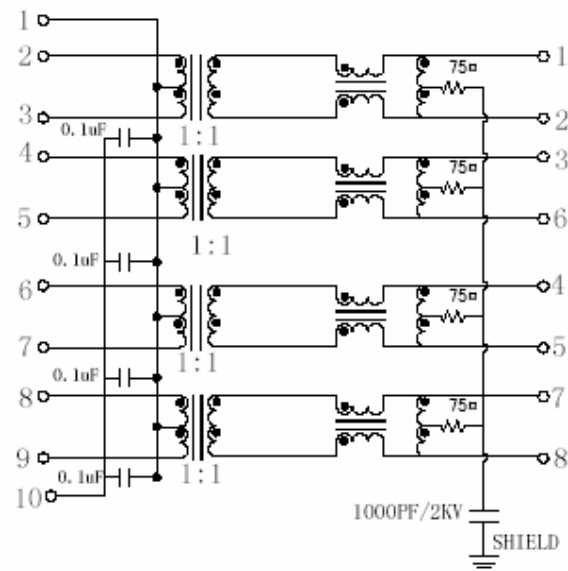
RJ32-U5103B



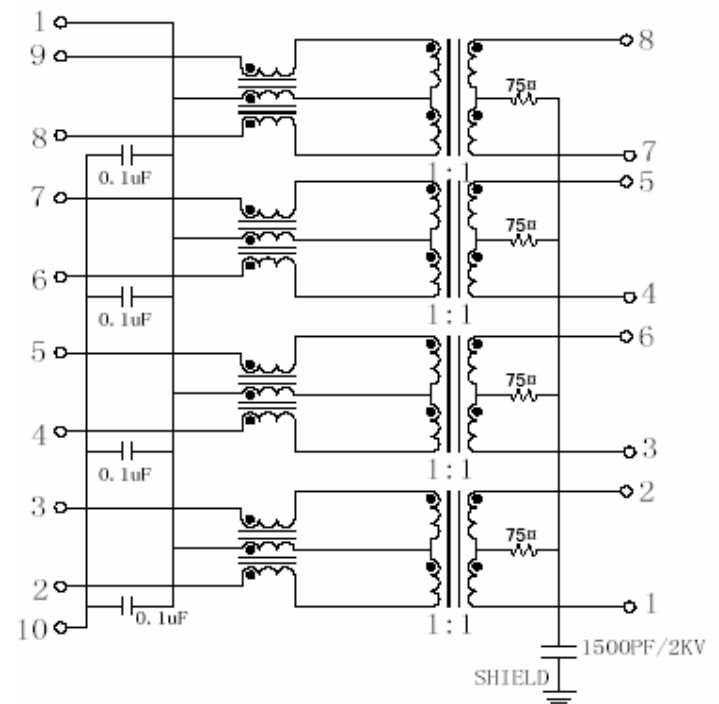
RJ32-U5104B



RJ32-U5202B



RJ32-U5203B



RJ45 10/100/1000

Base-TX Jack / Dual

USB Combo



Coilmaster Electronics Co., Ltd.

FEATURES

1. LAN interface suitable for **10/100/1000 Base-TX** applications
2. **RJ45 / USB stacked** design saves on PCB real estate
3. USB module complies with **USB 2.0 standards and meets CAT FAST Ethernet** industry performance
4. Meets or exceeds **IEEE 802.3 and ANSI X 3.263 standards** including 350uH min. OCL with 8mA bias.
5. **RoHS compliant peak solder rating 235°C**

ELECTRICAL CHARACTERISTICS @ 25°C --- Operating Temperature 0°C to 70°C

PART NUMBER	Turns Ratios		DATA Rate	Insertion Loss (dB typ.)	Return loss (dB typ.)@100Ω MHz			Crosstalk (dB typ) MHz			CMR (dB typ) MHz		Hipot (Vrms)
	TX	RX		1-100MHz	1-30	30-60	60-80	1-10	30-60	60-100	1-50	50-150	
RJ32-U5102B-LF	1:1	1:1	10 / 100	-1.0	-18	-16	-12	-40	-35	-30	-30	-20	1500
RJ32-U5103B-LF	1:1	1:1	10 / 100	-1.0	-18	-16	-12	-40	-35	-30	-30	-20	1500
RJ32-U5104B-LF	1:1	1:1	10 / 100	-1.0	-18	-16	-12	-40	-35	-30	-30	-20	1500
RJ32-U5202B-LF	1:1	1:1	1000	-1.0	-18	-16	-12	-40	-35	-30	-30	-20	1500
RJ32-U5203B-LF	1:1	1:1	1000	-1.0	-18	-16	-12	-40	-35	-30	-30	-20	1500

10/100 Base-T RJ45 1XN

Tab-Down Jack

With Magnetic Module



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PART NUMBERING SYSTEM

RJ32	—	X6201	—	X	—	X	—	LF
Type		Model		Mechanical		LED table		Lead Free

(1) RJ32 Series Mechanical :

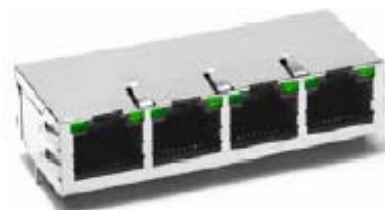
A	With LED and EMI-Finger
B	With LED and Non EMI-Finger
C	Without LED with EMI-Finger
D	Without LED and EMI-Finger



RoHS Compliant

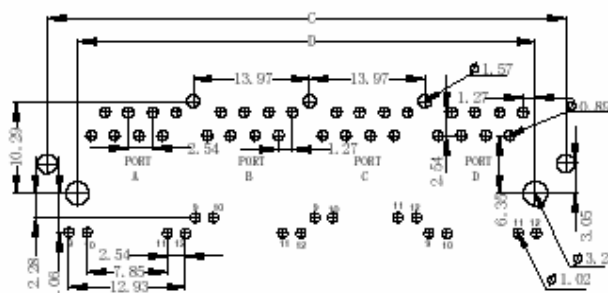
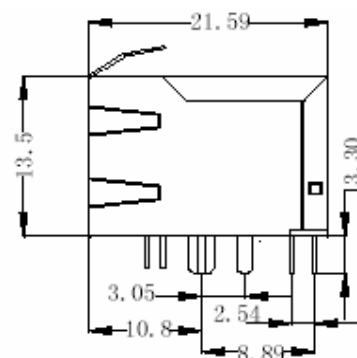
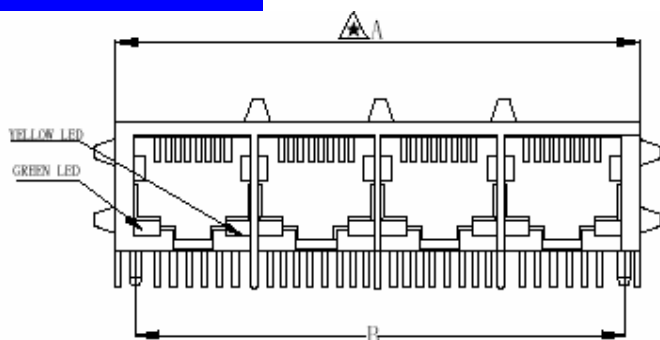
(2) LED ordering options :

LED Code	LED COLOR		LED POLARITY
	LEFT	RIGHT	
A	Y	G	9
B	G	Y	10
C	G	G	11
D	Y	G	9
E	G	Y	10
F	G	G	11



SHAPES AND DIMENSIONS

A(1xX, X=2,4,6,8)



SUGGESTED PCB LAYOUT



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 1XN

Tab-Down Jack

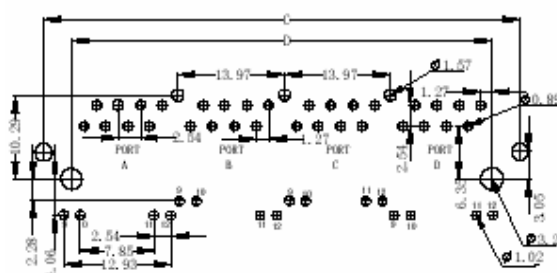
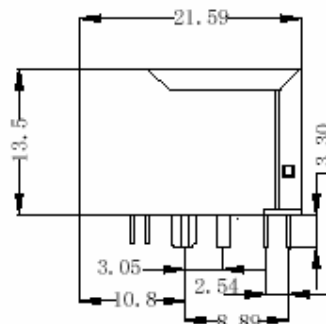
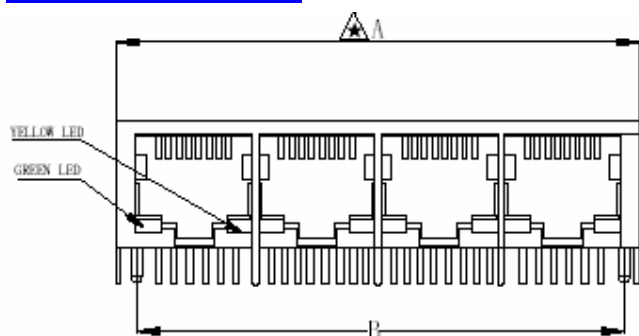
With Magnetic Module



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SHAPES AND DIMENSIONS

B(1xX, X=2,4,6,8)

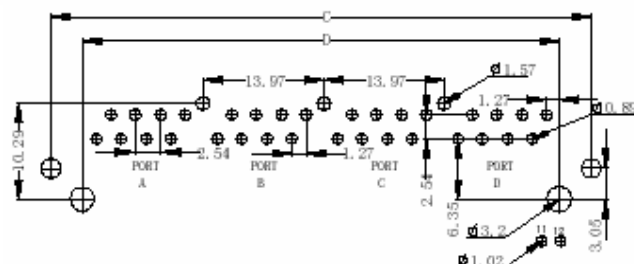
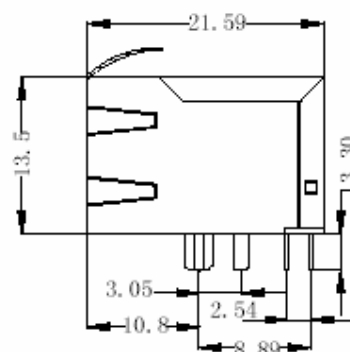
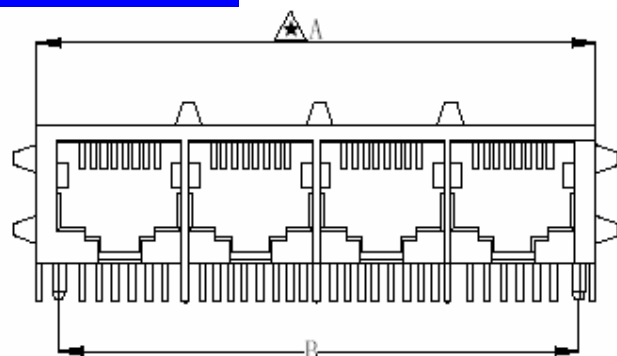


SUGGESTED PCB LAYOUT



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(1xX, X=2,4,6,8)



SUGGESTED PCB LAYOUT



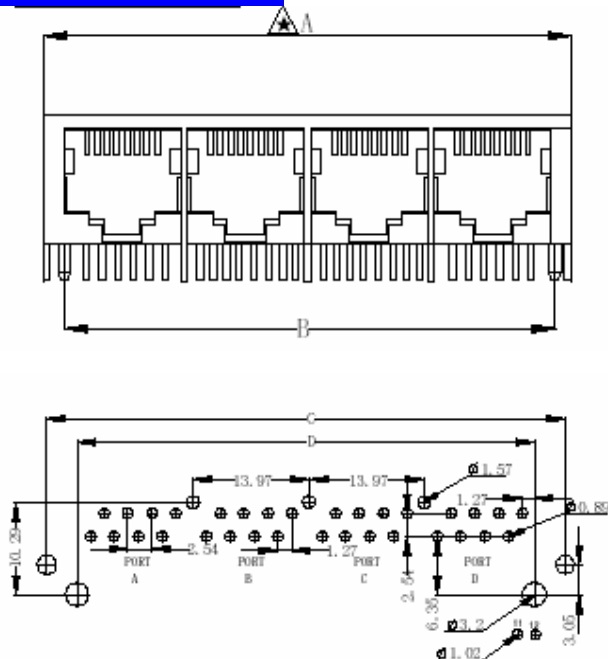
1×X PORT	1×X PORT LENGTH			
1×2	A=31.28	B=25.4	C=30.93	D=25.4
1×4	A=59.18	B=53.34	C=58.93	D=53.34
1×6	A=87.07	B=81.28	C=86.82	D=81.28
1×8	A=115.0	B=109.2	C=114.8	D=109.2



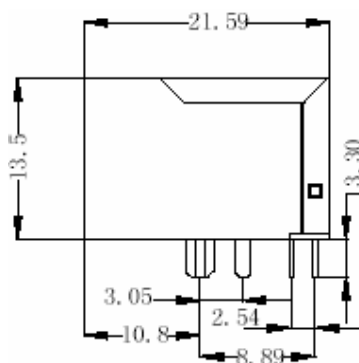
Coilmaster Electronics Co., Ltd.

SHAPES AND DIMENSIONS

D(1xX, X=2,4,6,8)



SUGGESTED PCB LAYOUT



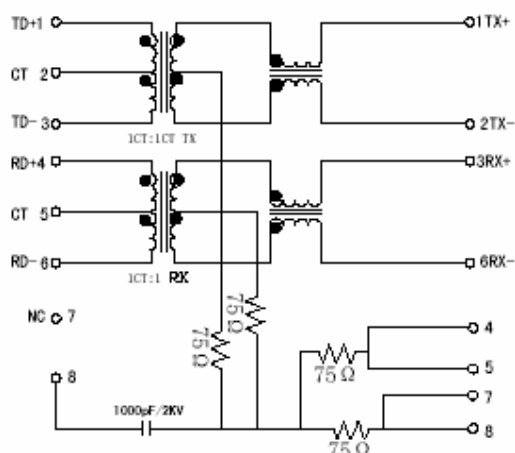
1×X PORT	1×X PORT LENGTH			
1×2	A=31.28	B=25.4	C=30.93	D=25.4
1×4	A=59.18	B=53.34	C=58.93	D=53.3
1×6	A=87.07	B=81.28	C=86.82	D=81.28
1×8	A=115.0	B=109.2	C=114.8	D=109.2

Dimensions: Inch/mm

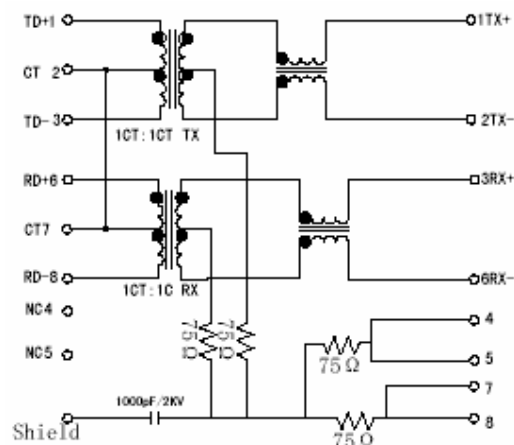
Unless otherwise specified,
all tolerances are $\pm .010/0,25$

Schematics

RJ32X6201,X=2,4,6,8



RJ32X6202,X=2,4,6,8



10/100 Base-T RJ45 1XN

Tab-Down Jack

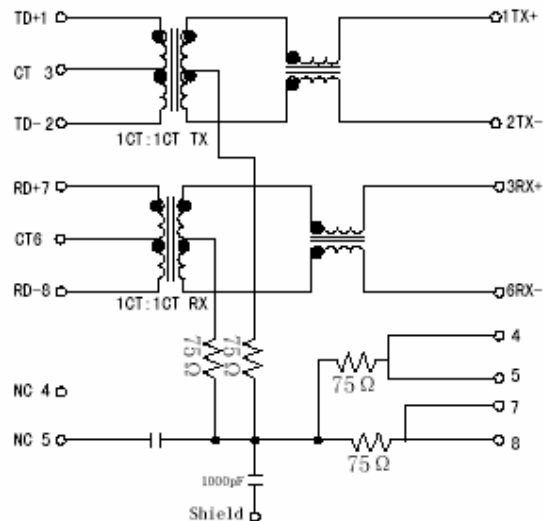
With Magnetic Module



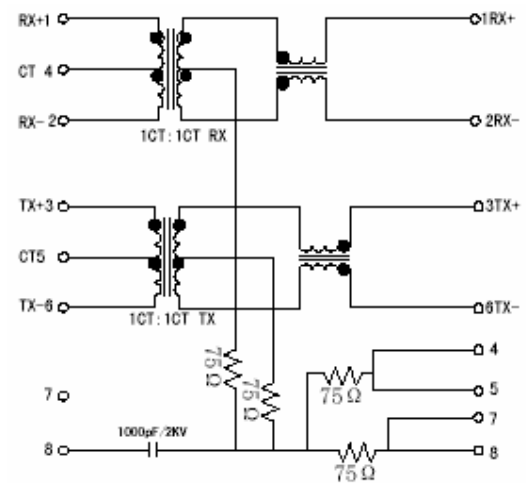
Coilmaster Electronics Co., Ltd.

Schematics

RJ32X6201,X=2,4,6,8



RJ32X6202,X=2,4,6,8



FEATURES

1. RJ45 1XN, Tab-Down 8 Pin with internal magnetics
2. **Available with and without LEDs**
3. Suitable for CAT 5 & 6 Fast Ethernet cable or better UTP
4. 350uH min. OCL with 8mA bias current
5. **RoHS compliant peak solder rating 235°C**

ELECTRICAL CHARACTERISTICS @ 25°C --- Operating Temperature 0°C to 70°C

PART NUMBER	Turns Ratios		Insertion Loss (dB typ.)	Return loss (dB typ) MHz			Crosstalk (dB Min) MHz			CMR (dB typ) MHz		Hipot (Vrms)
	TX	RX		1-10	30	60-100	1-10	30-60	60-100	1-50	50-130	
RJ32-X6201-LF	1CT:1CT	1CT:1CT	-1.2	-18	-16	-12	-40	-35	-30	-30	-20	1500
RJ32-X6202-LF	1CT:1CT	1CT:1CT	-1.2	-18	-16	-12	-40	-35	-30	-30	-20	1500
RJ32-X6203-LF	1CT:1CT	1CT:1CT	-1.2	-18	-16	-12	-40	-35	-30	-30	-20	1500
RJ32-X6204-LF	1CT:1CT	1CT:1CT	-1.2	-18	-16	-12	-40	-35	-30	-30	-20	1500

PART NUMBERING SYSTEM



Type

Model

Mechanical

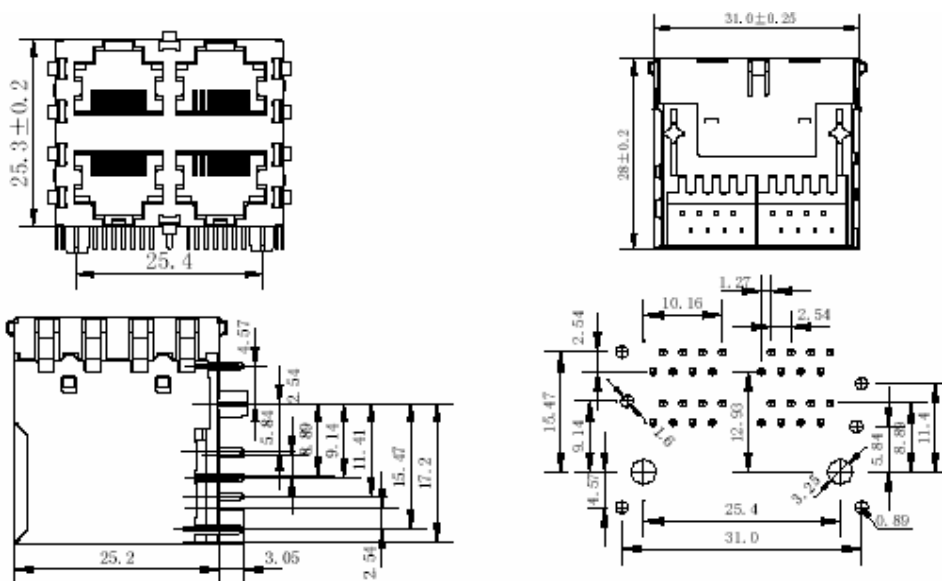
LED table

Lead Free

1. RJ45 2XN, with internal magnetics
2. **Options : 2x2,2x4,2x6 and 2x8 for 10/100 Base-TX**
3. Suitable for CAT 5 & 6 Fast Ethernet cable or better UTP
4. Internal magnetics are 100% electrically tested for Hi-Pot and function
4. 350uH min. OCL with 8mA bias current
5. **RoHS compliant peak solder rating 235°C**



2x2



10/100 Base-T RJ45 2XN

Tab-Down(Up) Jack

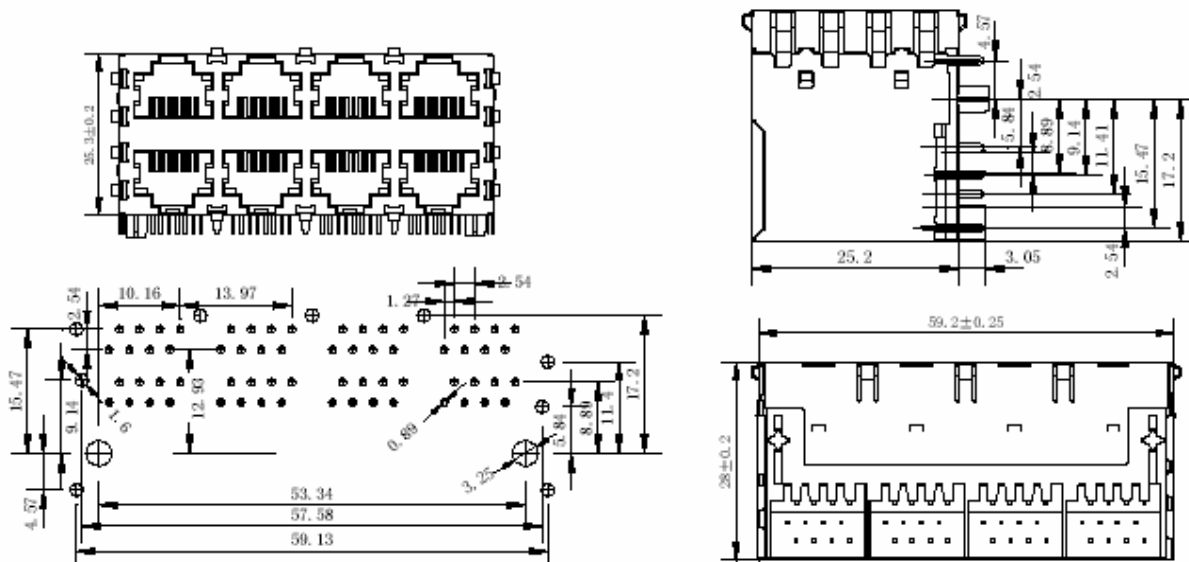
With Magnetic Module



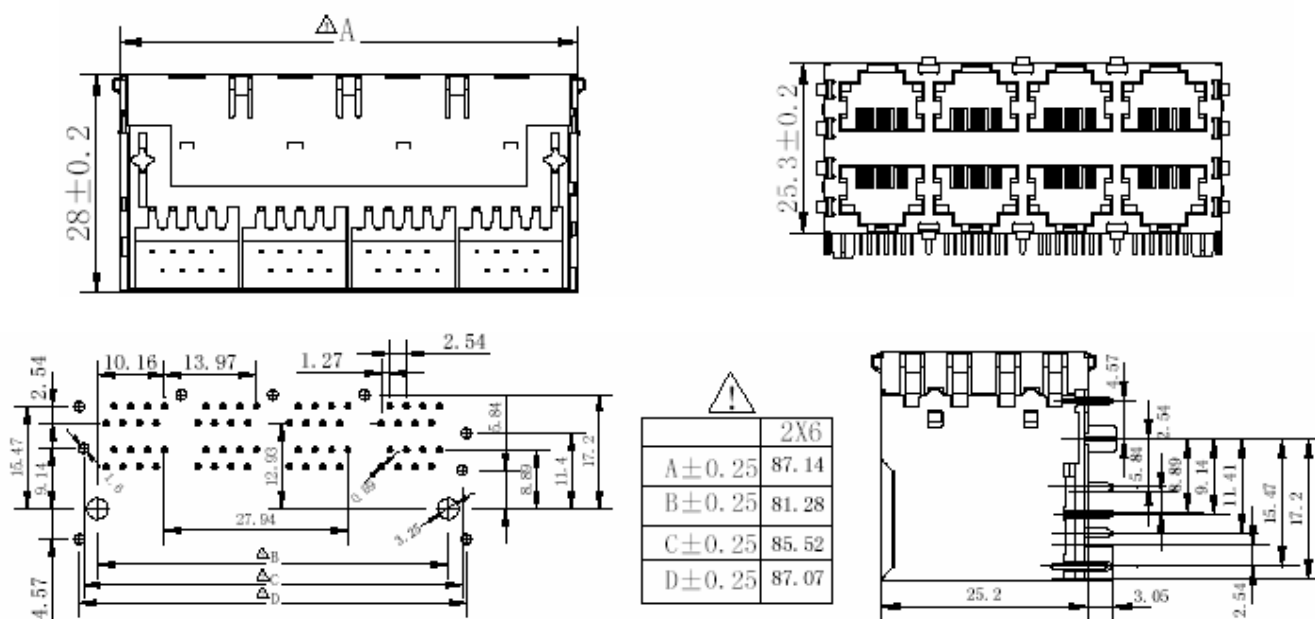
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SHAPES AND DIMENSIONS

2x4



2x6



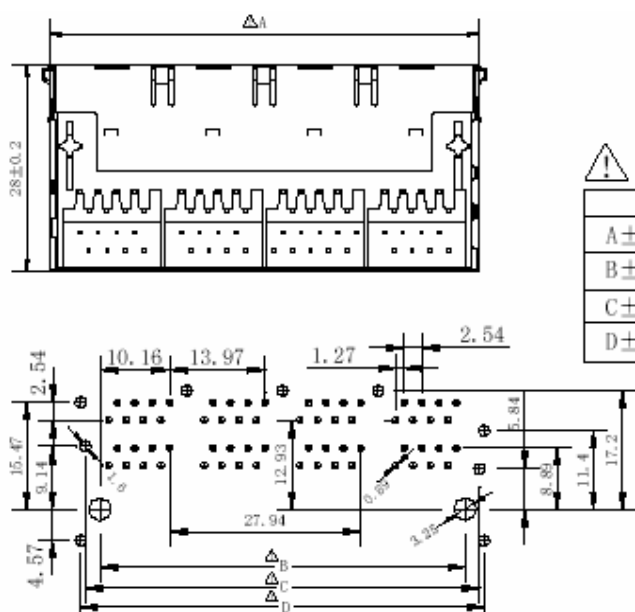
10/100 Base-T RJ45 2XN Tab-Down(Up) Jack With Magnetic Module



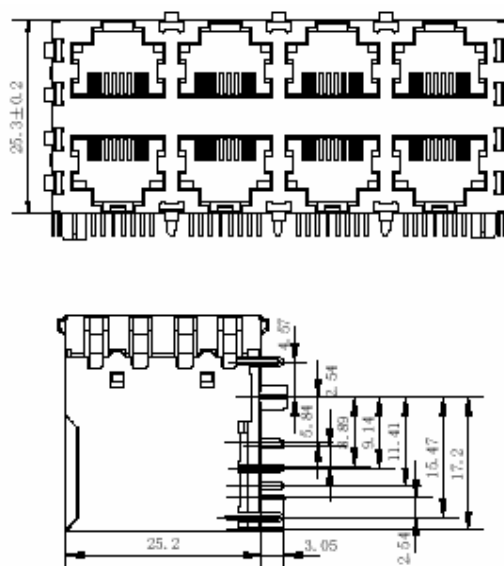
Coilmaster Electronics Co., Ltd.

SHAPES AND DIMENSIONS

2x8

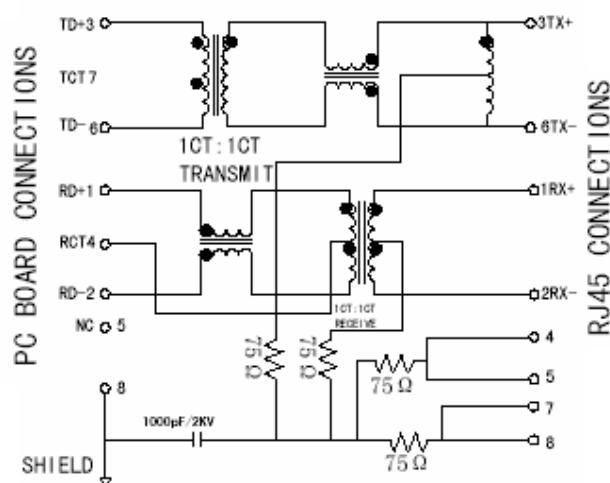


	2X8
A $\pm$ 0.25	115.1
B $\pm$ 0.25	109.24
C $\pm$ 0.25	113.48
D $\pm$ 0.25	115.03

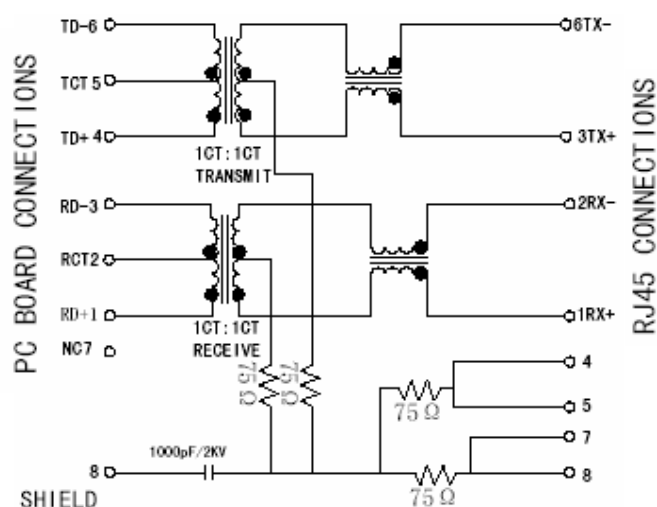


Schematics

RJ32X7201-LF



RJ32X7202-LF



10/100 Base-T RJ45 2XN

Tab-Down(Up) Jack

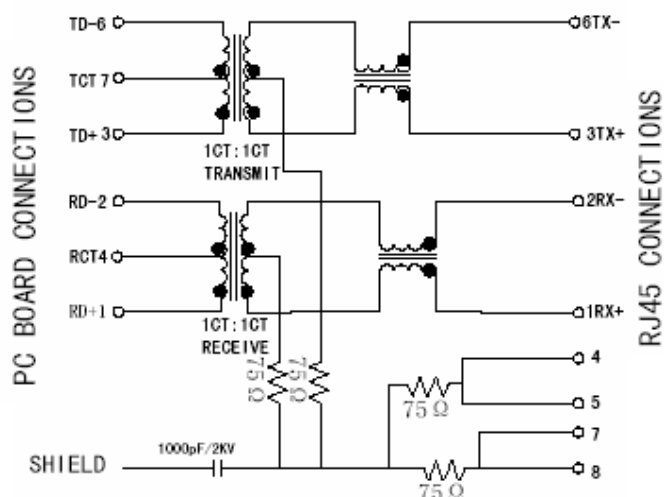
With Magnetic Module



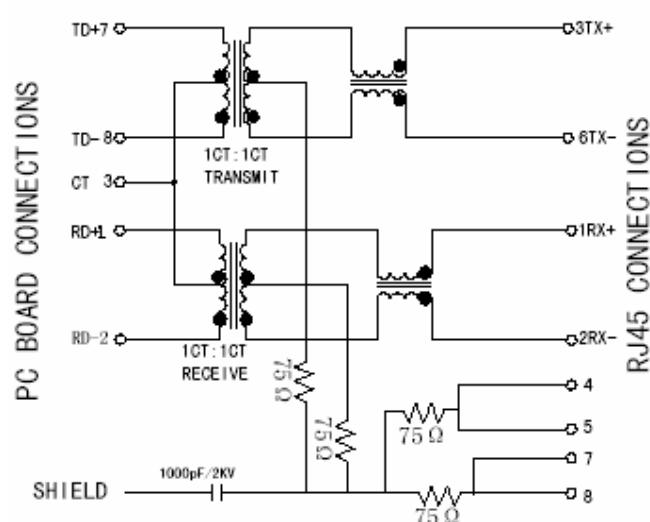
Coilmaster Electronics Co., Ltd.

Schematics

RJ32X7203-LF



RJ32X7204-LF



FEATURES

1. RJ45 2XN, with internal magnetics
2. **Options : 2x2,2x4,2x6 and 2x8 for 10/100 Base-TX**
3. Suitable for CAT 5 & 6 Fast Ethernet cable or better UTP
4. Internal magnetics are 100% electrically tested for Hi-Pot and function
4. 350uH min. OCL with 8mA bias current
5. **RoHS compliant peak solder rating 235°C**

ELECTRICAL CHARACTERISTICS @ 25°C --- Operating Temperature 0°C to 70°C

PART NUMBER	Turns Ratios (±3%)		Insertion Loss (dB Max.)		Return loss (dB Min.) 100Ω±15Ω (MHz)		Crosstalk (dB Min) MHz	CMR (dB typ) MHz	Hipot (Vrms) @60Hz 1Min
	TX	RX	1-80MHz	100MHz	1-60	60-100	1-100	1-100	1-50
RJ32-X7201-LF	1CT:1CT	1CT:1CT	-1.0	-1.2	-16	-12	-35	-30	1500
RJ32-X7202-LF	1CT:1CT	1CT:1CT	-1.0	-1.2	-16	-12	-35	-30	1500
RJ32-X7203-LF	1CT:1CT	1CT:1CT	-1.0	-1.2	-16	-12	-35	-30	1500
RJ32-X7204-LF	1CT:1CT	1CT:1CT	-1.0	-1.2	-16	-12	-35	-30	1500

Note : X=2 --->2x2 ; X=4 --->2x4 ; X=6 --->2x6 ; X=8 ---> 2x8