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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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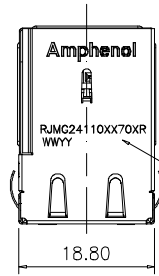


# CUSTOMER DRAWING

## ORIGINAL

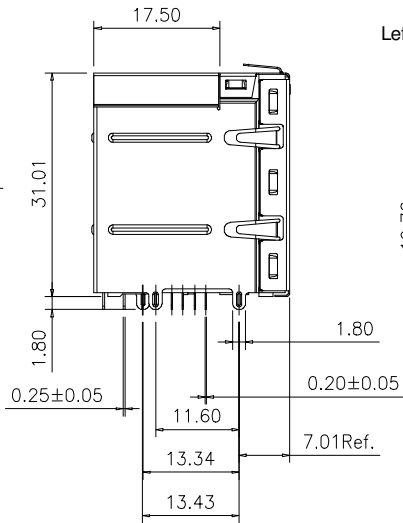


REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	APPROVED
A	ECN-12-016	NEW RELEASE	3/27/2012	Roger Tsai
B	ECN-12-018	UPDATE BOTTOM VIEW	12/19/2012	Roger Tsai



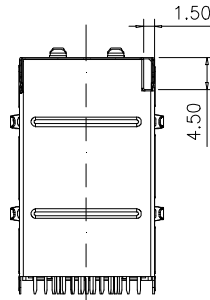
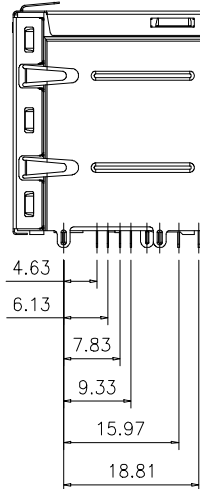
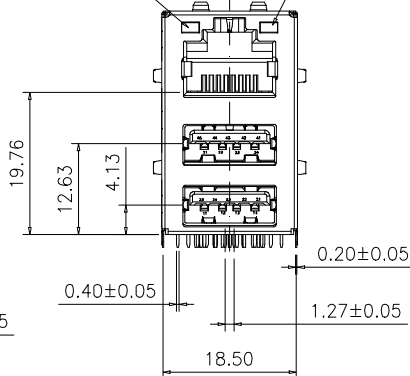
Logo Area

(TOP VIEW)

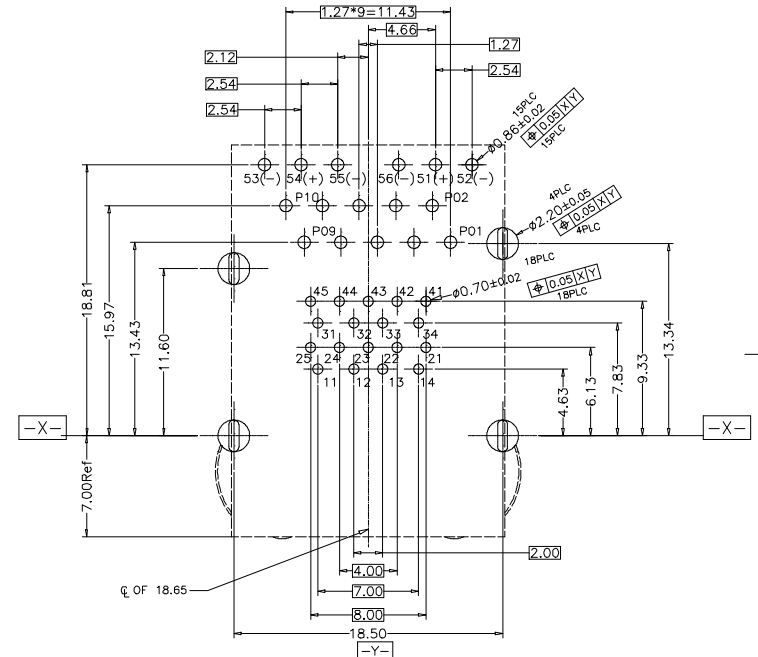
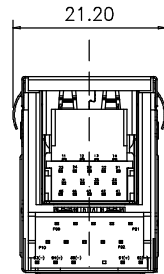


Left LED 2

Right LED 1



BACK VIEW



RECOMMENDED PCB LAYOUT  
TOL.ARE±0.05 SCALE 2:1  
(TOP VIEW)

RECOMMENDED PCB LAYOUT  
COMPONENT SIDE  
ALL DIMENSION TOLERANCE ARE ±0.08mm UNLESS OTHERWISE SPECIFIED

TOLERANCE	APPROVALS	DATE	TITLE			
X. ±0.35	DRAWN Devin Yen	12/19/2012	RJmag 1000 Base-T RJ Over Dual USB 3.0 With Led Option			
X.X ±0.25						
X.XXX ±0.15	APPROVED Roger Tsai	12/19/2012				
ANGULAR ±1°	DWG TYPE CUST DWG	PROJECT CODE RJMG	UNIT mm	SIZE A3	PART No. RJMG24110XX70XR	
UNLESS OTHERWISE SPECIFIED			SCALE NA	SHEET 1 OF 4	DWG No. RJMG24110XX70XR	REV. B

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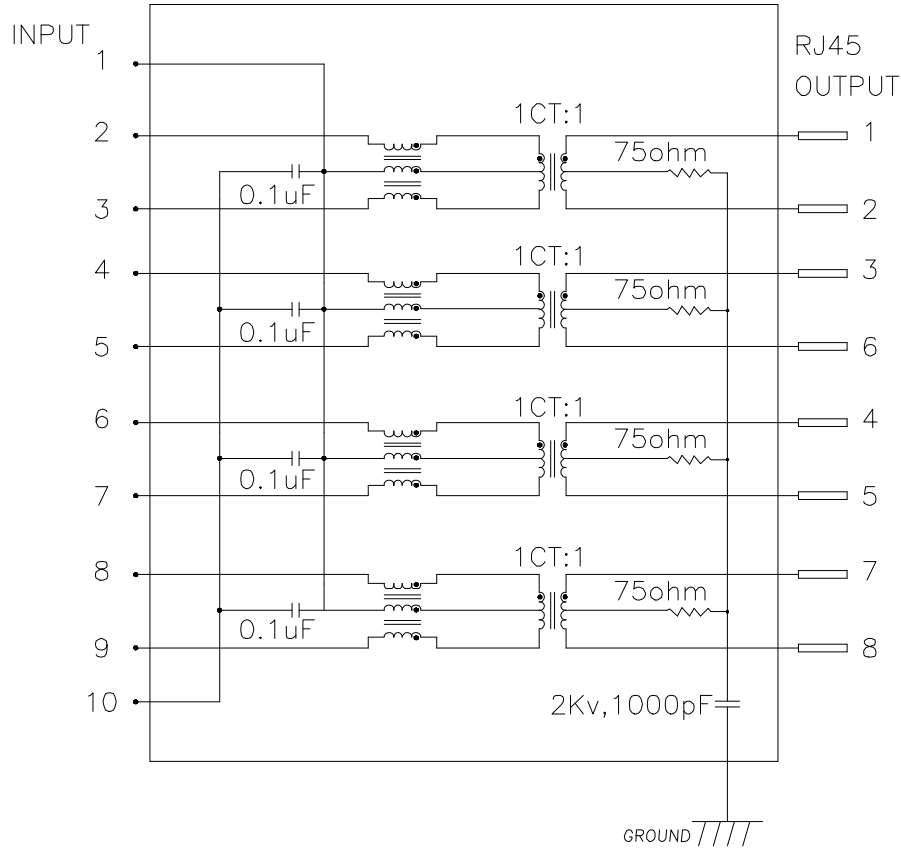
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## SCHEMATIC



### NOTES:

#### 1. MATERIAL:

- 1.1 RJ 45 HOUSING: HIGH TEMPERATURE THERMAL PLASTIC UL94V-0
- 1.2 SPACER: THERMAL PLASTIC UL94V-0
- 1.3 USB 3.0 HOUSING:THERMAL PLASTIC UL94V-0
- 1.4 RJ45 CONTACT:PHSPHOR BRONZE
- 1.5 USB 3.0 CONTACT: BRASS
- 1.6 P\_CONTACT:BRASS
- 1.7 GROUND CONTACT:BRASS
- 1.8 USB3.0 SHELL:STEEL
- 1.9 SHELL:STAINLESS STEEL
- 1.10 LED:EPOXY RESIN&STELL



#### 2. FINISH:

- 2.1 RJ45 CONTACT:SELECTIVE GOLD PLATING ON CONTACT AREA, MATTE-TIN 2.54um[100μ"]MIN.PLATING ON SOLDER AREA, NI 1.27um[50μ"] MIN.UNDER PLATING OVER ALL.
- 2.2 USB3.0 CONTACT:SELECTIVE GOLD PLATING ON CONTACT AREA, MATTE-TIN 2.54um[100μ"] MIN.PLATING ON SOLDER AREA, NI 1.27um[50μ"] MIN.UNDER PLATING OVER ALL.
- 2.3 P-CONTACT:NI 1.27um[50μ"] MIN.UNDERPLATED OVER ALL, 2.032um[80μ"]MIN.MATTE-TIN PLATED ON SOLDER AREA.
- 2.4 GROUND CONTACT:NI 1.27um[50μ"] MIN.UNDERPLATED OVER ALL, 2.032um[80μ"]MIN. MATTE-TIN PLATED ON SOLDER AREA.
- 2.5 USB3.0 SHELL:NI 2.032um[80μ"]MIN. OVER ALL.
- 2.6 LED:MATTE-TIN 2.54um[100μ"] MIN. OVER ALL.
- 3.RECOMMENDED P.C.B THICKNESS : 1.8mm

### TRANSFORMER ELECTRICAL SPECIFICATIONS AT 25°

TURNS RATIO	DATA RATE (MHz)	LEDs (L/R)	INSERTION LOSS (dB Min.)	RETURN LOSS 1000±15Ω (dB Max.)			
				1-30 MHz	30-60 MHz	60-80 MHz	80-100 MHz
1CT:1CT	10/100/1000	G-O/Y	-1.2	-18	-16	-12	-10

CROSS TALK (dB MAX.)			DM-CM (dB MAX.)	CM-CM (dB MAX.)	Hi-Pot (Vrms)
1-30 MHz	30-60 MHz	60-100 MHz	1-100 MHz	1-100 MHz	60Hz/1MIN.
-40	-35	-30	-35	-30	1500

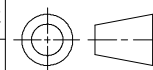
### USB 3.0 Pin ASSIGNMENTS

Pin NUMBER	SIGNAL NAME	Pin NUMBER	SIGNAL NAME
11&31	VBUS	21&41	SSRX-
12&32	D-	22&42	SSRX+
13&33	D+	23&43	GND
14&34	GND	24&44	SSTX-
SHELL	SHIELD	25&45	SSTX+

TOLERANCE	APPROVALS	DATE	TITLE	
X. ±0.35 X.X ±0.25 X.XX ±0.15	DRAWN Devin Yen	12/19/2012	RJmag 1000 Base-T RJ Over Dual USB 3.0 With Led Option	
	CHECKED Vivian Wen	12/19/2012		
	APPROVED Roger Tsai	12/19/2012		
ANGULAR ±1°	DWG TYPE CUST DWG	PROJECT CODE RJMG	UNIT mm	SIZE A3
UNLESS OTHERWISE SPECIFIED			SCALE NA	SHEET 2 OF 4
			PART No. RJMG24110XX70XR	REV. B

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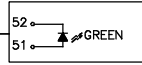


### RJMG24110XX70XR

#### LED1 RIGHT SIDE

0- No LED (Blocked Hole)

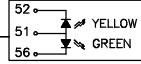
1- Green



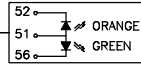
2- Yellow



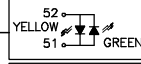
4- Bi-color Green/Yellow, 3 Leads



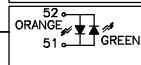
6- Bi-color Green/Orange, 3 Leads



7- Bi-color Green/Yellow, 2 Leads



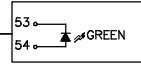
8- Bi-color Green/Orange, 2 Leads



#### LED2 LEFT SIDE

0- No LED (Blocked Hole)

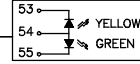
1- Green



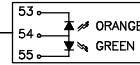
2- Yellow



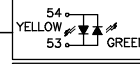
4- Bi-color Green/Yellow, 3 Leads



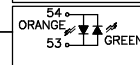
6- Bi-color Green/Orange, 3 Leads



7- Bi-color Green/Yellow, 2 Leads



8- Bi-color Green/Orange, 2 Leads



#### OPTIONS:

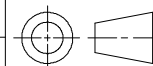
- C- Gold Flash, Stainless steel shield, Tray
- D- Gold Plating, 15μ", Stainless steel shield, Tray
- E- Gold Plating, 30μ", Stainless steel shield, Tray
- F- Gold Plating, 50μ", Stainless steel shield, Tray

#### NOTE:

1. INDUCTANCE 350uH MIN 100KHz 100mV 8mA DC
2. LED CONFIGURATION

STANDARD LED	WAVELENGTH(λ)	V/ IF=20mA	
		MAX.	Typ.
YELLOW	585nm	2.5 V	2.1 V
ORANGE	605nm	2.5 V	2.1 V
GREEN	570nm	2.5 V	2.1 V

TOLERANCE	APPROVALS	DATE	TITLE			Amphenol®						
X. X.X ±0.35 X.XX ±0.25 X.XXX ±0.15	DRAWN	Devin Yen	12/19/2012	RJMag 1000 Base-T RJ Over Dual USB 3.0 With Led Option			Amphenol Corporation Amphenol Taiwan Corporation					
	CHECKED	Vivian Wen	12/19/2012									
	APPROVED	Roger Tsai	12/19/2012									
ANGULAR ±1°	DWG TYPE	CUST DWG	PROJECT CODE	RJMG	UNIT	mm	SIZE	A3	PART No.	RJMG24110XX70XR		
UNLESS OTHERWISE SPECIFIED					SCALE	NA	SHEET	3 OF 4	DWG No.	RJMG24110XX70XR	REV.	B



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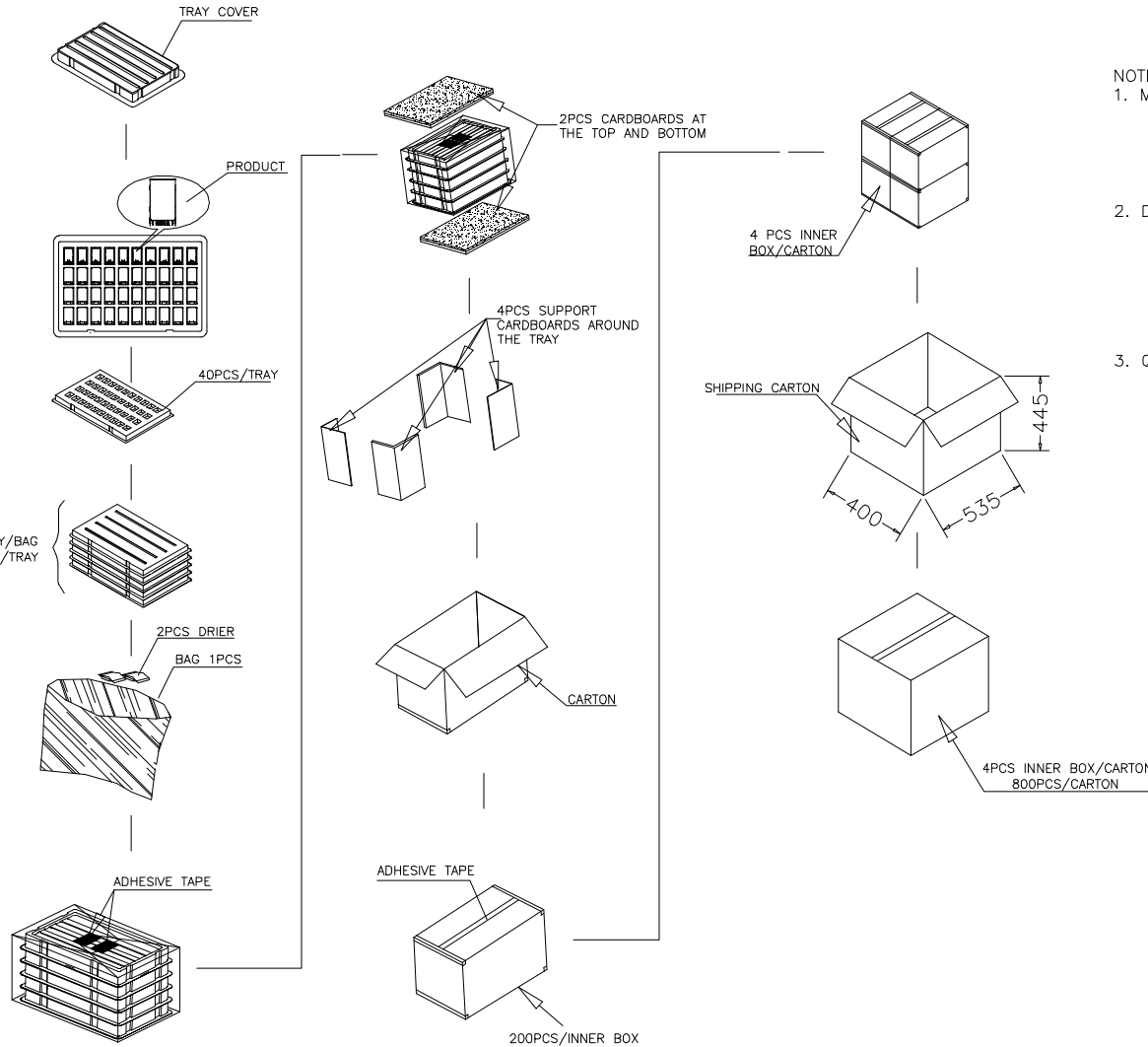
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NOTES: (FOR Tray)

1. MATERIAL:

- TRAY: PS
- TRAY COVER: PET
- BAG: PE
- CARDBOARD/SUPPORT CARDBOARD: CORRUGATED FIBER.
- SHIPPING CARTON/INNER BOX: CORRUGATED FIBER.

2. DIMENSION:

- TRAY: L=350mm, W=232mm, H=35.7mm
- TRAY COVER: L=350mm, W=232mm, H=16.5mm
- PE: L=431mm, W=241mm, H=457mm
- INNER BOX: L=375mm, W=250mm, H=205mm
- CARDBOARD: L=350mm, W=232mm, T=5mm
- SUPPORT CRADBOARD: L=80mm, W=80mm, H=190mm
- SHIPPING CARTON: L=535mm, W=400, H=445mm

3. QUANTITY: 800PCS/CARTON

TOLERANCE	APPROVALS	DATE	TITLE		Amphenol®			
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X.X ±0.25								
X.XX ±0.25	APPROVED Roger Tsai	12/19/2012	UNIT mm	SIZE A3	PART No. RJMG24110XX70XR			
X.XXX ±0.15	DWG TYPE CUST DWG	PROJECT CODE RJMG	SCALE NA	SHEET 4 OF 4	DWG No. RJMG24110XX70XR REV. B			
ANGULAR ±1°								
UNLESS OTHERWISE SPECIFIED								