



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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

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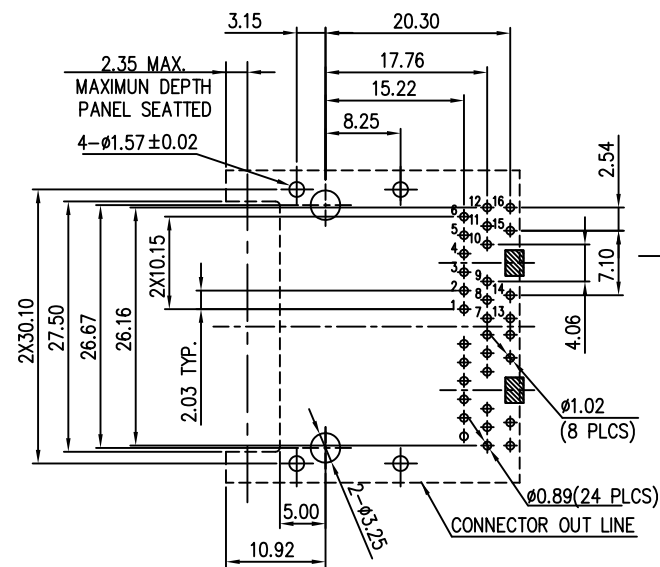
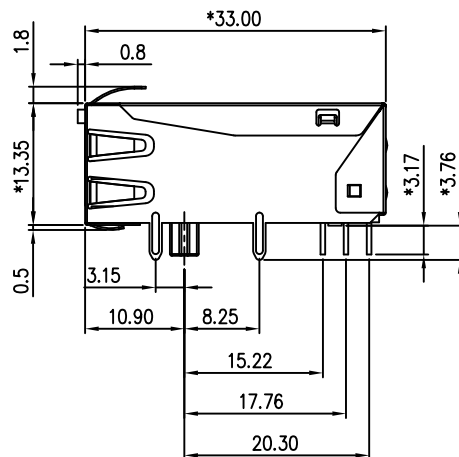
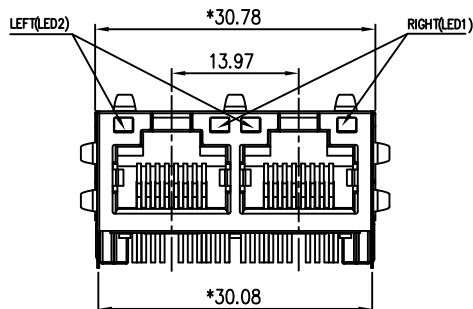
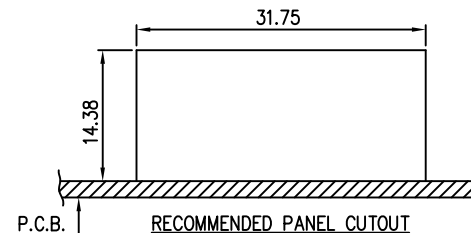
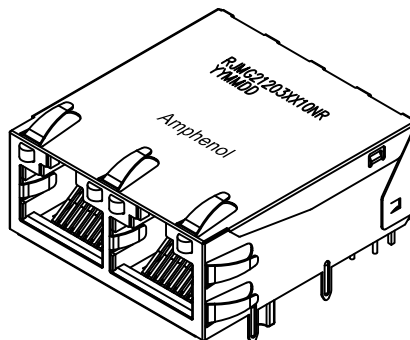
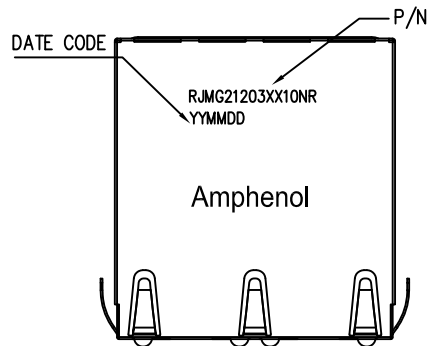


# CUSTOMER DRAWING

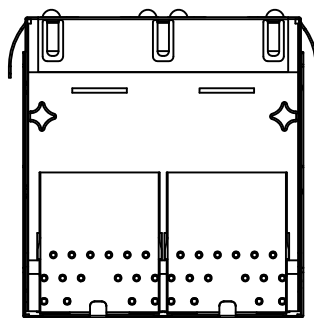
REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	APPROVED
AX3		UPDATE THE DIMENSIONS	3/20/2012	Roger Tsai

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The marking on this product doesn't contain environmental hazardous materials per Material Specification SS-00259 for Sony GP compliant or per directive 2002/95/EC for RoHS compliant.



RECOMMENDED P.C.B LAYOUT (GENERAL TOLERANCE: ±0.05)  
COMPONENT SIDE OF BOARD



TOLERANCE	APPROVALS	DATE	TITLE	UNIT	SIZE	PART No.
X. ±0.30	DRAWN Sunky Shang	3/20/2012	RJMG 1X2 SERIES 1000BASE-T With filter and LED	mm	A3	RJM21203XX10NR
X.X ±0.20	CHECKED Vivian Wen	3/20/2012				
X.XX ±0.10	APPROVED Roger Tsai	3/20/2012		NA	SHEET 1 OF 4	DVG No. RJMG21203XX10NR
ANGULAR ±1°	DWG TYPE CUST DWG	PROJECT CODE GT263				
UNLESS OTHERWISE SPECIFIED						

**Amphenol**®

Amphenol Corporation  
Amphenol Taiwan Corporation

# CUSTOMER DRAWING

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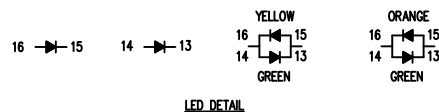
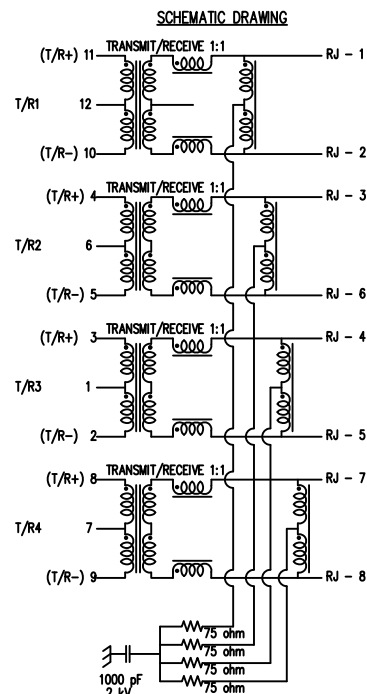
## ELECTRICAL SPECIFICATION (@25° C)

### CONNECTOR PERFORMANCE

PARAMETER	LIMITS (MAX. OR MIN.)	FREQUENCY RANGE/TEST CONDITIONS
INSERTION LOSS (RX/TX)	-0.8dB MAX. -1.2dB MAX.	0.1-100 MHz 100-125 MHz
RETURN LOSS (RX/TX)	-16dB MIN. -10+20 log(f/80MHz)dB MIN.	0.5-40 MHz 40-100 MHz
CM-CM REJECTION	-30dB MIN.	100 KHz-100 MHz
CM-DM REJECTION	-35dB MIN.	100 KHz-100 MHz
CROSSTALK ISOLATION (RX/TX)	-30+20 log(f/100MHz)dB MIN.	100 KHz-100 MHz
HIPOT (ISOLATION)	1.5kVrms MIN.	60S
OCL	350uH MIN.	100KHz 100mV 8mA
TURN RATIO	1:1±5%	

### LED PERFORMANCE

PARAMETER	SINGLE COLOUR		BICOLOUR				UNITS
	GREEN	YELLOW	GREEN	YELLOW	GREEN	ORANGE	
FORWARD CURRENT IF MAX	30	30	30		30		mA
REVERSE CURRENT IR MAX	10	10	10		10		uA
REVERSE VOLTAGE VR MAX	-5	-5	-5		-5		v
T OPERATURE	-40~+85	-40~+85	-40~+85		-40~+85		°C
T SOLDERING	260+/-5	260+/-5	260+/-5		260+/-5		°C
POWER DISS. Pd	70	70	70		70		mW
PEAK WAVELENGTH	565	585	565	585	565	605	nM
FORWARD VOLTAGE TYP	2.5	2.1	2.2	2.1	2.2	2.0	(@IF=20mA) V
FORWARD VOLTAGE MAX	2.9	2.6	2.6	2.6	2.6	2.6	(@IF=20mA) V



TOLERANCE	APPROVALS	DATE	TITLE	Amphenol® Amphenol Corporation Amphenol Taiwan Corporation		
X. ±0.30 X.X ±0.20 X.XX ±0.10 X.XXX ±0.10	DRAWN Sunky Shang CHECKED Vivian Wen APPROVED Roger Tsai	3/20/2012 3/20/2012 3/20/2012	RJMG 1X2 SERIES 1000BASE-T With filter and LED	UNIT mm	SIZE A3	PART No. RJMG21203XX10NR
ANGULAR ±1°	DWG TYPE CUST DWG	PROJECT CODE GT263		SCALE NA	SHEET 1 OF 4	DWG No. RJMG21203XX10NR
UNLESS OTHERWISE SPECIFIED						REV. AX3

# CUSTOMER DRAWING

REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	APPROVED
AX3		UPDATE THE DIMENSIONS	3/20/2012	Roger Tsai

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**MATERIALS:**

INSULATOR: THERMOPLASTIC POLYESTER,  
COLOR: BLACK  
FLAMMABILITY RATING UL 94V-0

CONTACTS (RJMAG): PHOSPHOR BRONZE  
PLATING: GOLD 30U" PLATING ON MATING SURFACES.  
120 MICROINCHES PURE TIN ON TAILS.  
STAINLESS STEEL T=0.20 MM.

SHIELD:  
DIMENSIONS MARKED WITH "\*" SHALL BE MEASURED.

**MECHANICAL FEATURES:**

SOLDERABILITY: MIL-STD-202, METHOD 208.

PACKAGING: 35PCS/PLASTIC TRAY, 10 TRAYS/CARTON  
MEET FCC PART 68.500 REQUIREMENTS.

**Environmental**

OPERATING TEMPERATURE: 0°C TO +70°C.

STORAGE TEMPERATURE: -40°C TO +105°C.

WAVE SOLDERING TEMPERATURE: 260°C FOR 10 SECONDS

RJMG-2120 - 3 X- X 1- 0 N R

R: RoHS Compliant;  
A electrical specifications

LED1 (RIGHT SIDE) SEE LED1 OPTIONS

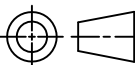
- 0- No LED (Blocked Hole)
- 1- Green
- 2- Yellow
- 4- Bi-color Green/Yellow
- 6- Bi color Green/Orange

PLATING AND PACKAGE  
N: Gold 30u"

LED2 (LEFT SIDE) SEE LED1 OPTIONS

- 0- No LED (Blocked Hole)
- 1- Green
- 2- Yellow
- 4- Bi-color Green/Yellow
- 6- Bi color Green/Orange

TERMINATION OPTIONS  
1: 12 cores 1000 pf (2KV)

TOLERANCE	APPROVALS	DATE	TITLE		<h2 style="margin: 0;">Amphenol®</h2> <p style="margin: 0;">Amphenol Corporation Amphenol Taiwan Corporation</p>			
X. X.X ±0.30 X.XX ±0.20 X.XXX ±0.10	DRAWN Sunky Shang	3/20/2012	RJMG 1X2 SERIES 1000BASE-T With filter and LED		PART No. RJMG21203XX10NR			
ANGULAR ±1°	CHECKED Vivian Wen	3/20/2012						
UNLESS OTHERWISE SPECIFIED	APPROVED Roger Tsai	3/20/2012						
	DWG TYPE CUST DWG	PROJECT CODE GT263		UNIT mm	SIZE A3	SHEET 1 OF 4	DWG No. RJMG21203XX10NR	REV. AX3

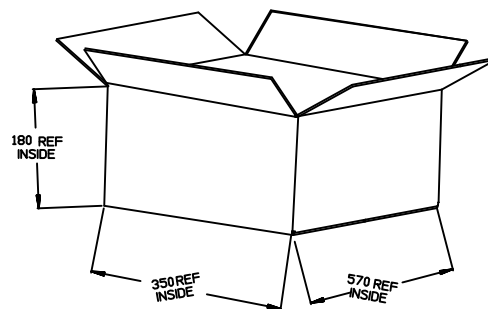
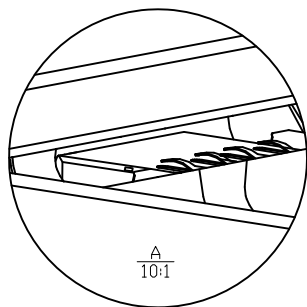
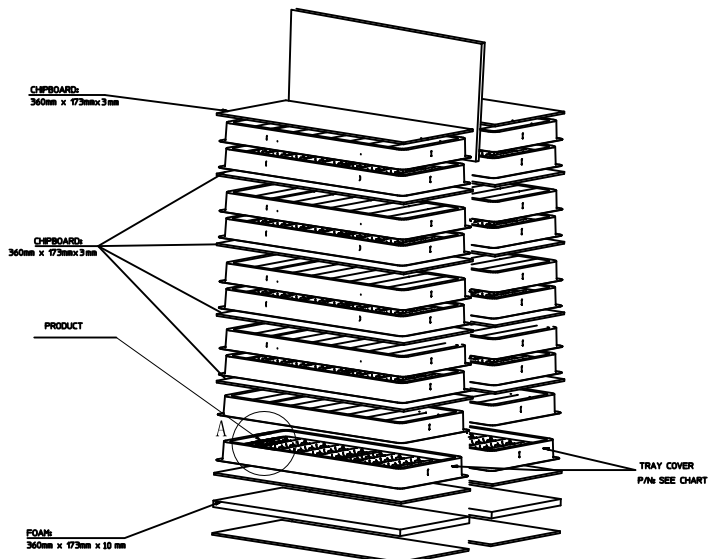
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REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	APPROVED
AX3		UPDATE THE DIMENSIONS	3/20/2012	Roger Tsai

PRODUCT		TRAY P/N	COVER P/N	TRAY PER PRIMARY CARTON	TRAY	PCS PER PRIMARY CARTON	PCS PER MASTER CARTON
P/N	PORTS						
RJMG2120XXX10NR					35		350



TOLERANCE	APPROVALS	DATE	TITLE		UNIT		SIZE		PART No.	
X. ±0.30	DRAWN Sunky Shang	3/20/2012	RJMG 1X2 SERIES 1000BASE-T With filter and LED		mm		A3		RJMG21203XX10NR	
X.XX ±0.20	CHECKED Vivian Wen	3/20/2012								
X.XXX ±0.10	APPROVED Roger Tsai	3/20/2012								
ANGULAR ±1°	DWG TYPE CUST DWG	PROJECT CODE GT263			SCALE NA		SHEET 1 OF 4		REV. AX3	
UNLESS OTHERWISE SPECIFIED										

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PART No. RJMG21203XX10NR

DWG No. RJMG21203XX10NR

REV. AX3