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!

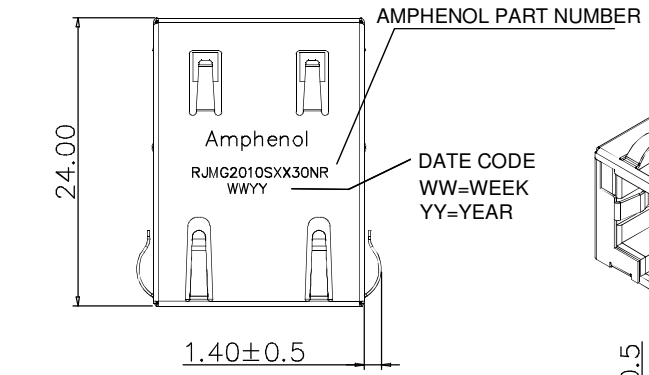
Contact us

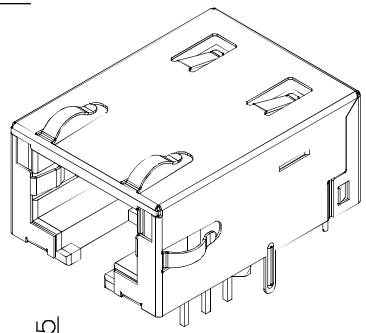
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

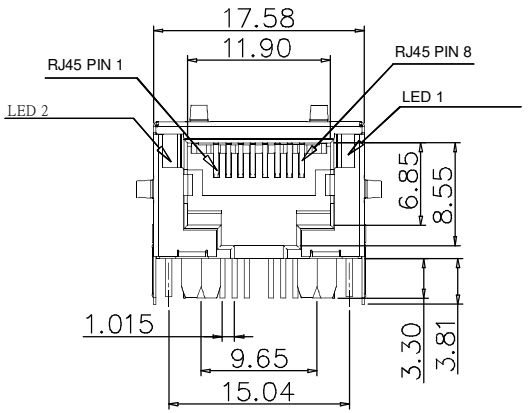
The marking on thisproduct doesn't contain environmental hazardous materials per Material Specification SS-00259 for Sony GP compliant or per directive 2011/65/EU for RoHS compliant.

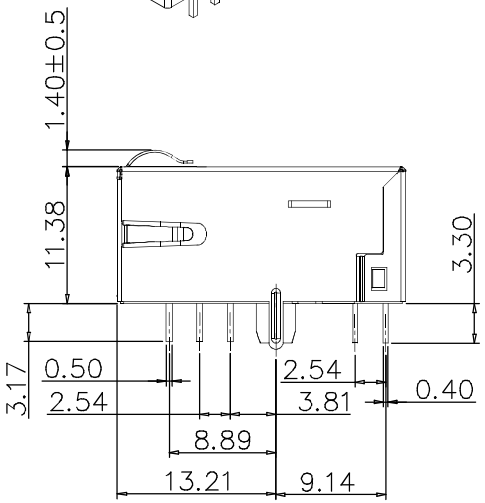
CUSTOMER DRAWING

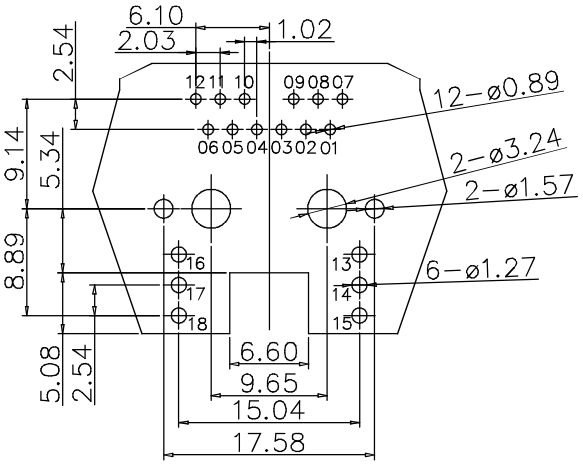
REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	APPROVED
AX1		NEW PROPOSAL DRAWING	11/08/2012	Tony Lin
AX2		ADD PACKAGE DRAWING	12/04/2012	Roger Tsai
AX3		UPDATE DOMINANT WAVELENGTH	01/14/2013	Roger Tsai
AX4		ADD THE LED CONFIGURATION	02/22/2013	Roger Tsai











FOR ONE UNIT

NOTES:

1. MATERIAL:
   1.1 HOUSING: THERMOPLASTIC, UL94 V-0;
COLOR: BLACK
   1.2 RJ CONTACT:COPPER ALLOY,T=0.30±0.02mm.
   1.3 SHELL:COPPER ALLOY,T=0.20±0.02mm.
2. FINISH:
   2.1 CONTACT:
      GOLD PLATING [30 μ"] (SEE TABLE) ON CONTACT AREA.
      2.54um [100 μ"] MIN. MATTE-TIN PALTING ON SOLDER TAIL AREA.
      1.27um [50 μ"] MIN. NICKEL UNDERPLATING OVERALL.
   2.2 SHELL:
      1.27um [50 μ"] MIN. NICKEL UNDERPLATING OVERALL.
3. RECOMMENDED P.C.B THICKNESS : 1.6mm
4. OTHER GENERAL SPEC. TO REFER : RJF SERIES SPEC.
5. FOR REFLOW SOLDERING LEAD-FREE PROCESS

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TOLERANCE	APPROVALS	DATE	TITLE
X.	DRAWN Devin Yen	02/22/2013	RJMG2010 Series 1X1 1000 Base−T Series with LED options
X.X ±0.35	CHECKED Vivian Wen	02/22/2013	
X.XX ±0.25	APPROVED Roger Tsai	02/22/2013	
X.XXX ±0.15			
ANGULAR ±1°			
UNLESS OTHERWISE SPECIFIED	DWG TYPE CUST DWG	PROJECT CODE RJMG	

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UNIT	SIZE	PART No.	
mm	A3	RJMG2010SXX30NR	
SCALE	SHEET	DWG No.	REV.
NA	1 OF 3	RJMG2010SXX30NR	AX4

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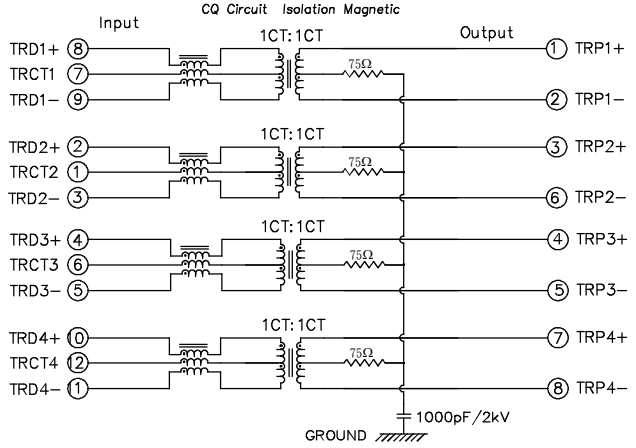
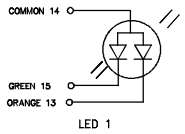
SCHEMATIC

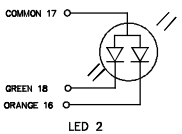
CQ Circuit Isolation Magnetic



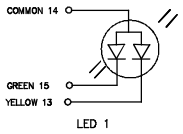
LED CONFIGURATION



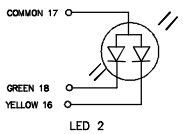
LED 1



LED 2



LED 1



LED 2

ELECTRICAL CHARACTERISTICS

TEST NOTES(25±5℃)

1.TR:(100kHz,100mV)

PINS:(P8-P9):(J1-J2)=1:1±3%;(P2-P3):(J3-J6)=1:1±3%

PINS:(P4-P5):(J4-J5)=1:1±3%;(P10-P11):(J7-J8)=1:1±3%

2.LX:(100kHz,100mV,8mA DC Bias)

PINS:(P8-P9),(P2-P3),(P4-P5),(P10-P11)=350uH MINIMUM

3.DCR:

PINS:(JI-J2),(J3-J6),(J4-J5),(J7-J8)=1.2 OHMS MAXIMUM

4.HIPOT:

PINS:(P8-P9)TO(J1-J2),(P2-P3)TO(J3-J6)=1500Vrms

PINS:(P4-P5)TO(J4-J5),(P10-P11)TO(J7-J8)=1500Vrms

5.INSERTION LOSS:

-0.8dB MAXIMUM AT 1MHz-100MHz

-1.2dB MAXIMUM AT 100MHz-125MHz

6.RETURN LOSS

-18dB MINIMUM AT 0.5MHz TO 40MHz

-12+20log(f/80MHz)dB MINIMUM AT 40MHz TO 100MHz

7.CROSS TALK:

-33+20log(f/100MHz)dB MINIMUM AT 0.1MHz TO 100MHz

8.COMMON TO DIFFERENTIAL MODE REJECTION

-30dB MINIMUM AT 0.3MHz TO 100MHz

9.COMMON TO COMMON MODE REJECTION

-30dB MINIMUM AT 0.3MHz TO 100MHz

10:LED1&LED2

VF(FORWARD VOLTAGE) IF=20mA GREEN2.2V TYP,ORANGE 2.1V TYP,YELLOW 2.1V TYP

D(DOMINANT WAVELENGTH) IF=20mA,GREEN 565 TYP,ORANGE 605 TYP,YELLOW 590nm TYP

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RJMG2010SXX30NR

LED2 AND LED4 (RIGHT SIDE) SEE LED OPTIONS
0- No LED (Blocked Hole)
8- Bi color Green/Orange (3 leads)
9- Bi-color Green/Yellow (3 leads)

LED1 AND LED3 (LEFT SIDE) SEE LED OPTIONS
0- No LED (Blocked Hole)
8- Bi color Green/Orange (3 leads)
9- Bi-color Green/Yellow (3 leads)

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ANGULAR ±1°			
UNLESS OTHERWISE SPECIFIED			

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UNIT	SIZE	PART No.	
mm	A3	RJMG2010SXX30NR	
SCALE NA	SHEET 2 OF 3	DWG No. RJMG2010SXX30NR	REV. AX4

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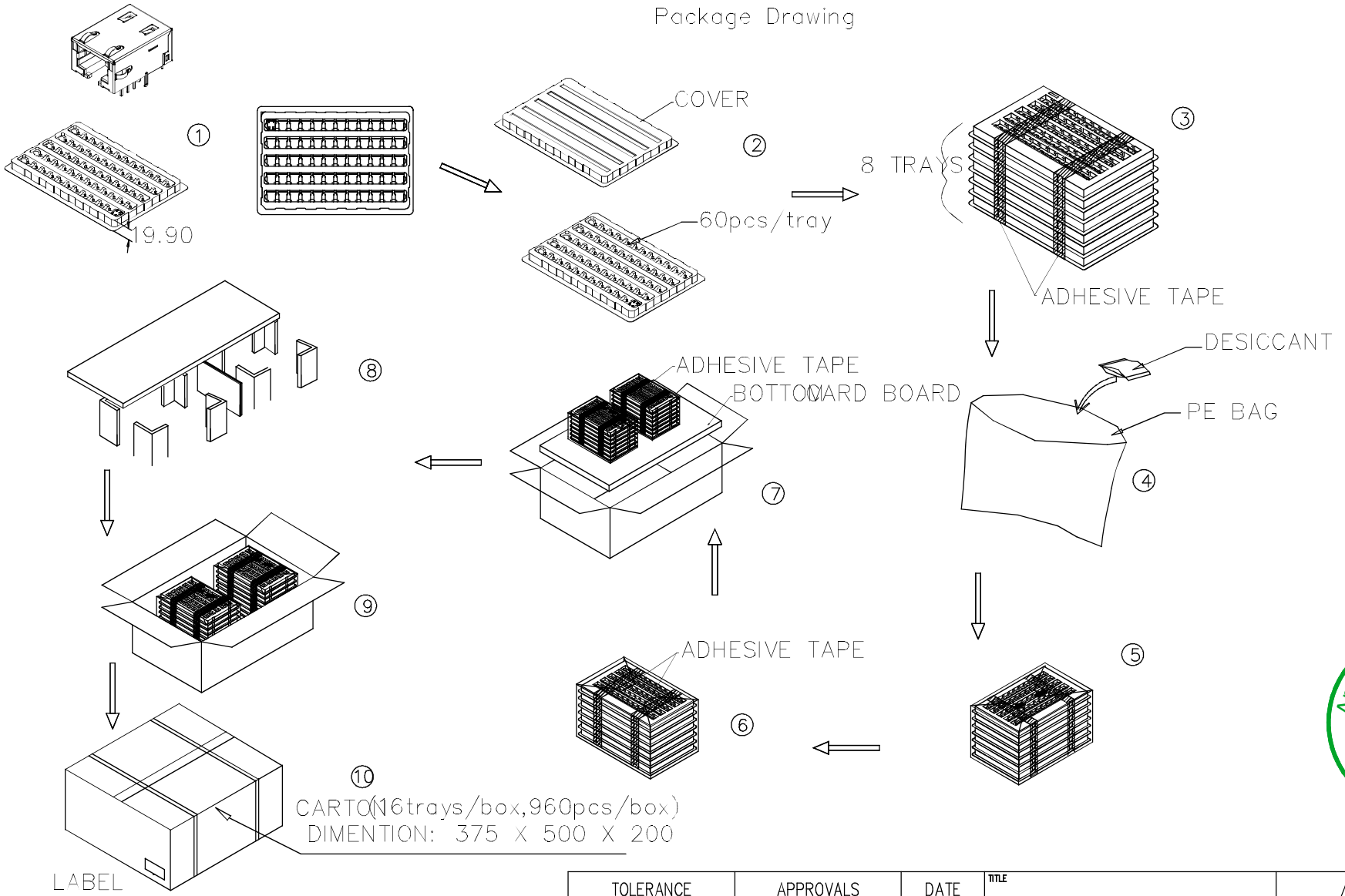
Package Drawing



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UNIT	SIZE	PART No.	
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NA	3 OF 3	RJMG2010SXX30NR	AX4