

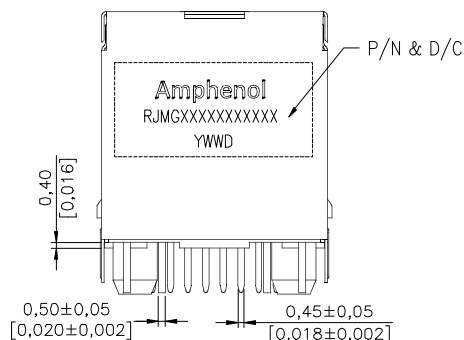
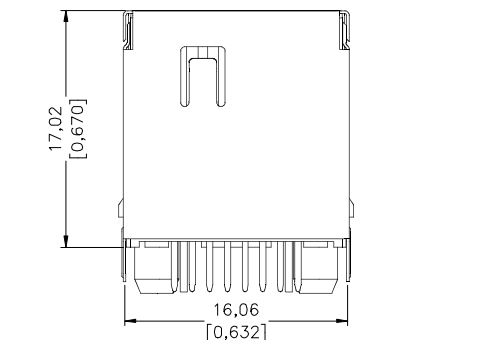
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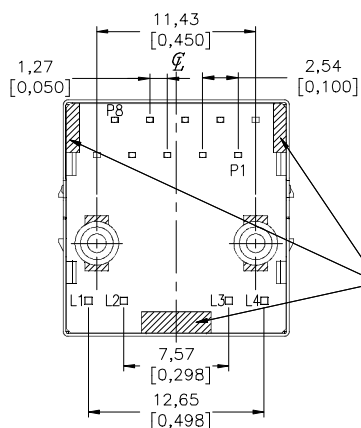
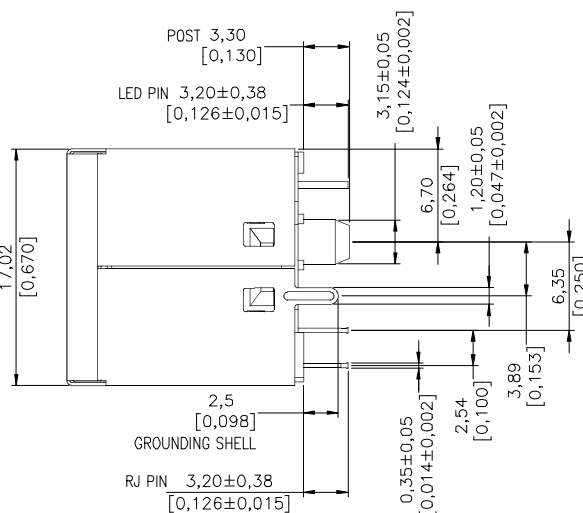
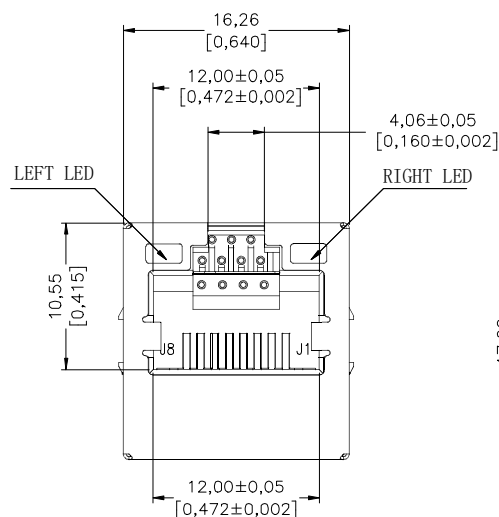
MECHANICAL DRAWINGS:

CUSTOMER DRAWING

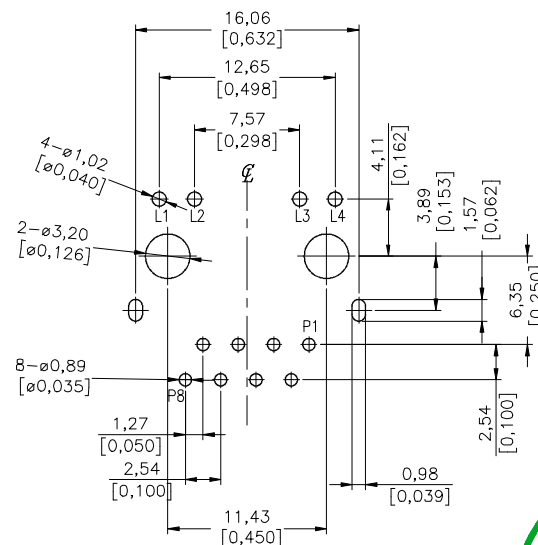
REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	APPROVED
AX1		INITIAL RELEASE	03/29/2017	Roger Tsai
AX2		Update the LOGO position	07/12/2017	Roger Tsai
AX3		Update the Drawing	11/01/2017	Lawrence Chan
AX4		ADD THE PACKAGING	08/29/2018	Lawrence Chan



BACK VIEW



PCB LAYOUT & LED ILLUSTRATE:



RECOMMENDED PCB LAYOUT
(COMPONENT SIDE VIEW)
TOLERANCE: ±0.05 [0.002]



PART NO. RJMG1V8 X X 7141 X H

LEFT LED CODE
RIGHT LED CODE
0: No LED's Blocked Hole
1: Green
2: Yellow
3: Red
4: Bi-color Green/ Yellow
5: Bi-color Red/Green
6: Bi-color Green/Orange
7: Bi-color Red/Yellow
N: Amber
P: Bi-color Green/Amber

Plating and Packaging Option:

B: gold 6u", tray
C: gold flash, tray
D: gold 15u", tray
E: gold 30u", tray
F: gold 50u", tray

TOLERANCE		APPROVALS		DATE	TITLE RJ45 1X1 10/100 Base TYPE WITH FILTER & WITH LED				Amphenol® Amphenol Corporation Amphenol Taiwan Corporation			
X. X.X ±0.30 X.XX ±0.25 X.XXX ±0.10		DRAWN Arvin Ye	08/29/2018									
		CHECKED Vivian Wen	08/29/2018									
ANGULAR ±1°		APPROVED Lawrence Chan	08/29/2018		UNIT mm	SIZE A3	PART No. RJMG1V8XX7141XH					
UNLESS OTHERWISE SPECIFIED		DWG TYPE CUST DWG	PROJECT CODE —		SCALE NA	SHEET 1 OF 3	DWG No. RJMG1V8XX7141XH		REV. AX4			

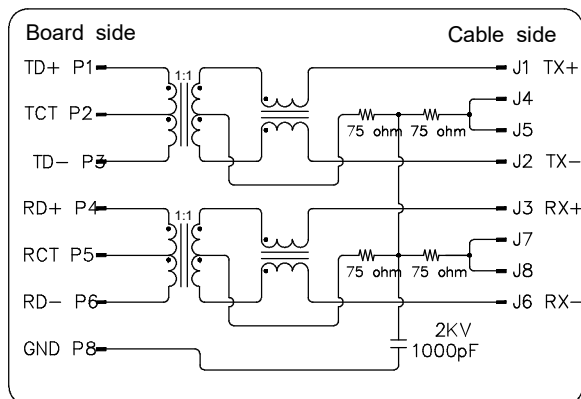
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CUSTOMER DRAWING

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SCHEMATIC FOR RJ45:

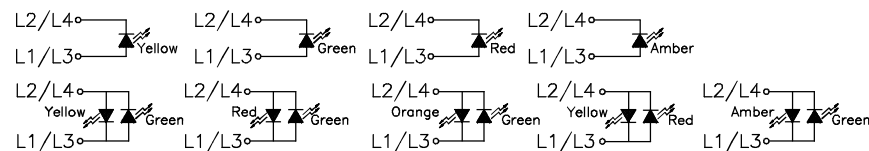


ELECTRICAL CHARACTERISTICS :

1. INSERTION LOSS :
 - 1~100 MHz -1.0dB MAX
2. RETURN LOSS(LOAD 100Ω) :
 - 1~30 MHz -18dB MIN
 - 30~60 MHz -16dB MIN
 - 60~80 MHz -12dB MIN
3. COMMON MODE REJECTION
 - 1~100 MHz -30dB MIN
4. CROSS TALK
 - 1~100 MHz -30dB MIN
5. INDUCTANCE @ 100KHz, 0.1V, 8mA DC BIAS
 - (P1-P3),(P4-P6) : 350 uH MIN
6. DCR
 - (J1-J2),(J3-J6): 1.2 Ohm MAX
7. HI-POT TEST
 - BOARD SIDE TO CABLE SIDE : 1500VAC 60S OR 2250VDC 60S
8. TURNS RATION 100KHz
 - (P1-P3) : (J1-J2) = 1:1 ±%3
 - (P4-P6) : (J3-J6) = 1:1 ±%3



LED OPTION & SPECIFICATION



Emitting Color	λ_p (nm)	$V_f @ I_f=20mA$	$I_r @ V_r=5V$
Green	565	1.7V~2.6V	10μA max.
Yellow	585	1.7V~2.6V	10μA max.

1. MATERIAL

- HOUSING & SPACER : THERMOPLASTIC, UL 94V-0, BLACK ,HF
- MODULE CASE : HIGH TEMPERATURE THERMOSET, UL 94V-0, BLACK,HF
- RJ CONTACTS : PHOSPHOR BRONZE
PLATING : SELECT GOLD ON CONTACT AREA (SEE PART NO),
100U" MIN TIN PLATING ON SOLDER TAILS, 30U" MIN NICKEL OVERALL
- SOLDER TAIL TERMINAL : BRASS
PLATING : 100U" TIN MIN, 30U" MIN NICKEL OVERALL
- SHIELD : STAINLESS, THICKNESS=0.2MM, PRE-SOLDERING

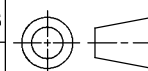
2. RJ45 SPECIFICATIONS

- INSULATION RESISTANCE : 500 MOHMS MIN
- INSERTION FORCE WITH THE LATCH DEPRESSED :22N MAX
- REMOVAL FORCE WITH THE LATCH DEPRESSED :44N MAX
- DURABILITY :750 CYCLES

3. OPERATING AND STORAGE TEMPERATURE

- OPERATING TEMPERATURE : 0°C TO +70°C
- STORAGE TEMPERATURE : -40°C TO +85°C
- Mates With Modular Plug Conforming To FCC Part 68,Subpart F.

TOLERANCE		APPROVALS		DATE	TITLE				Amphenol® Amphenol Corporation Amphenol Taiwan Corporation					
X. X.X ±0.30 X.XX ±0.25 X.XXX ±0.10		DRAWN Arvin Ye		08/29/2018										
		CHECKED Vivian Wen		08/29/2018					UNIT mm		SIZE A3		PART No. RJMG1V8XX7141XH	
ANGULAR ±1°		APPROVED Lawrence Chan		08/29/2018					SCALE NA		SHEET 2 OF 3		DWG No. RJMG1V8XX7141XH	
UNLESS OTHERWISE SPECIFIED		DWG TYPE CUST DWG		PROJECT CODE —										



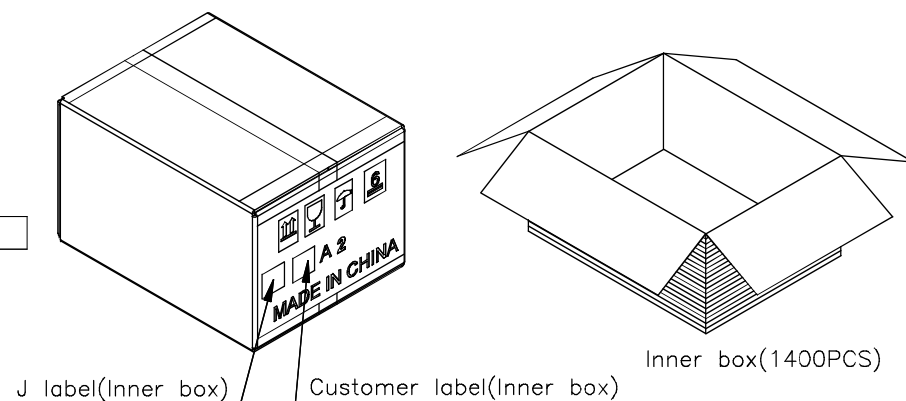
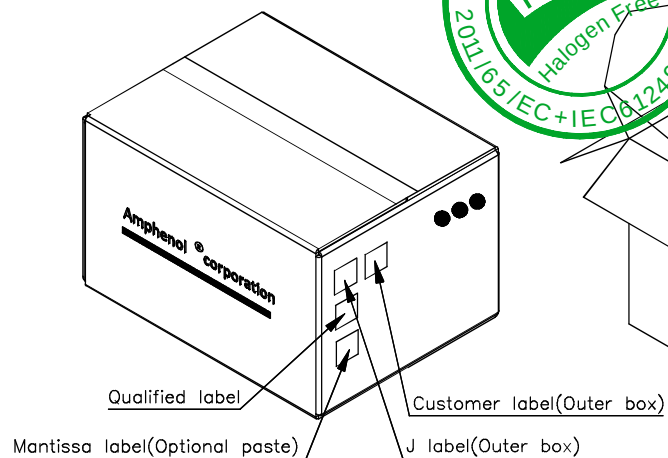
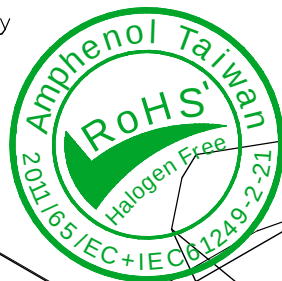
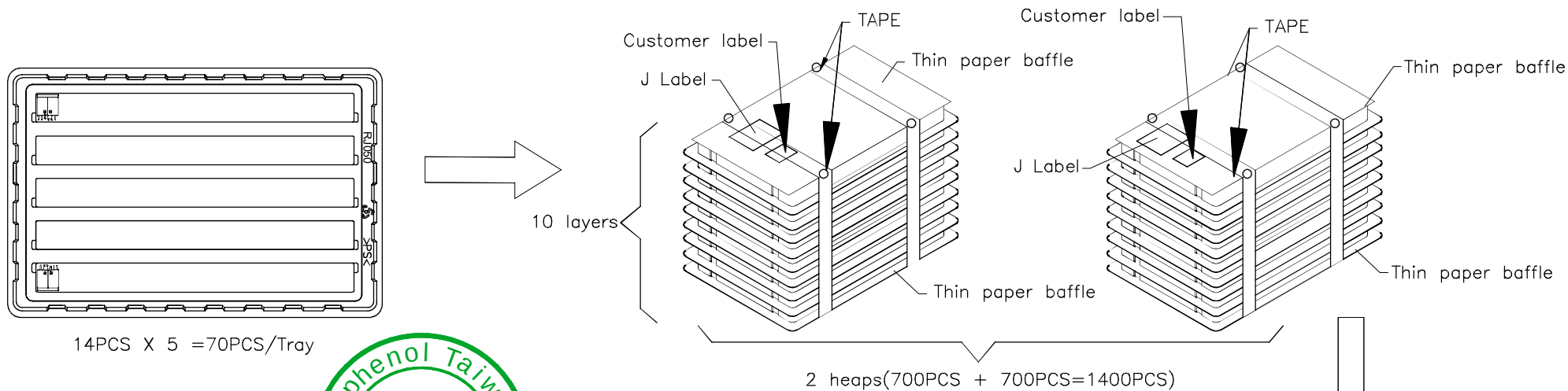
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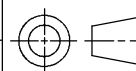
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The label is attached to each stack of top layer thin paper partition board.



PRODUCT		PCS PER TRAY	PCS PER INNER BOX	PCS PER OUTER BOX
SERIES	PORTS			
RJMG1V8X	RJ45 1X1	70	1400	2800

TOLERANCE	APPROVALS	DATE	TITLE		Amphenol®			
X. X.X ±0.30 X.XX ±0.25 X.XXX ±0.10 ANGULAR ±1° UNLESS OTHERWISE SPECIFIED	DRAWN	Arvin Ye	08/29/2018	RJ45 1X1 10/100 Base TYPE WITH FILTER & WITH LED	Amphenol Corporation Amphenol Taiwan Corporation			
	CHECKED	Vivian Wen	08/29/2018		PART No. RJMG1V8XX7141XH			
	APPROVED	Lawrence Chan	08/29/2018		DWG No. RJMG1V8XX7141XH			
DWG TYPE		CUST DWG	PROJECT CODE	—	UNIT	mm	SIZE	A3
					SCALE	NA	SHEET	3 OF 3
							REV.	AX4



UNIT	mm
SCALE	NA

SIZE	A3
SHEET	3 OF 3

PART No.	RJMG1V8XX7141XH
DWG No.	RJMG1V8XX7141XH
REV.	AX4