

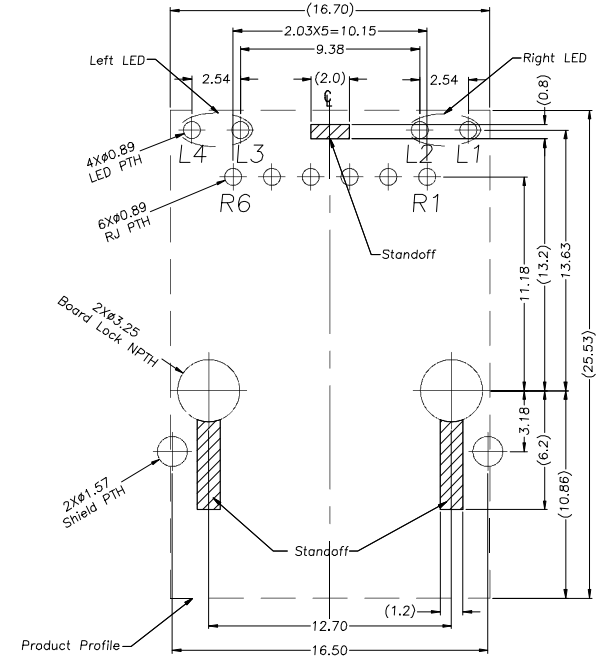
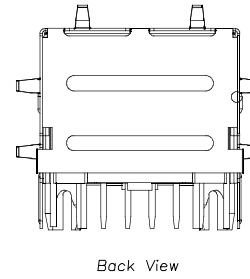
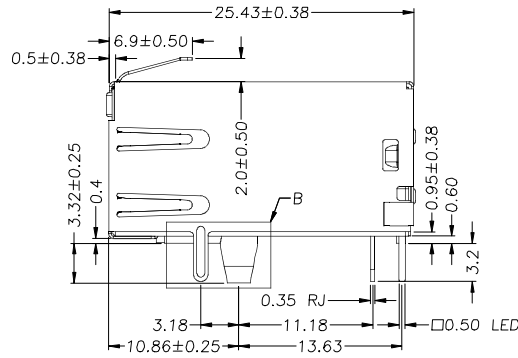
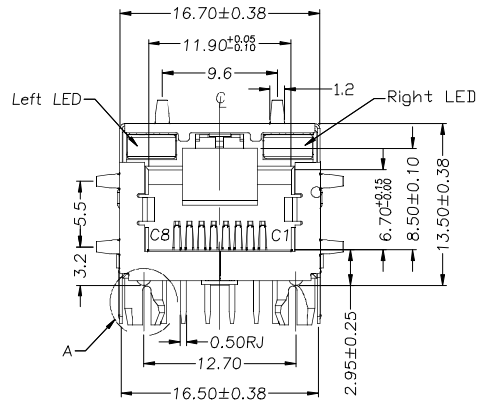
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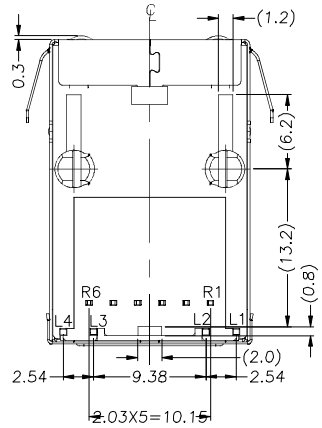
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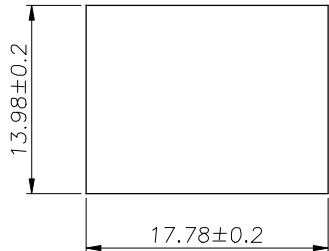
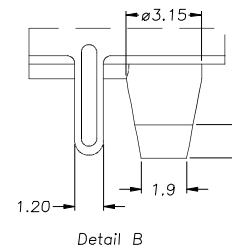
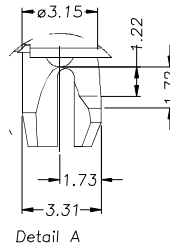
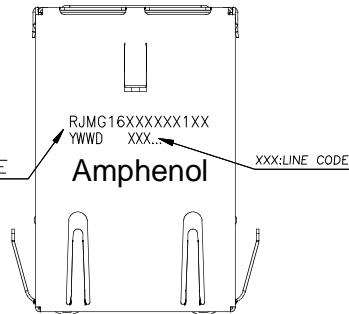
REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	APPROVED
C	NE-13016	ADD THE SCHEMATIC FOR ALL OPTIONS	01/24/2013	Roger Tsai
D	NE-14155	ADD LED OPTIONS	01/29/2015	Roger Tsai
EX1	/	UPDATE LED OPTIONS D/C CODE	09/29/2017	Lawrence Chan



RECOMMENDED PCB LAYOUT  
(ALL TOLERANCES ARE ±0.05)



DATE CODE  
Y=YEAR  
WW=WEEK  
D=DAY



RECOMMENDED PANEL CUTOUT

TOLERANCE	APPROVALS	DATE	TITLE				
X. ±0.35	DRAWN Arvin Ye	09/29/2017	SINGLE PORT RJmag CONNECTOR SHIELD, WITH R&C TERMINATION 10/100	 Amphenol Corporation Amphenol Taiwan Corporation			
X.X ±0.25							
X.XX ±0.15	APPROVED Lawrence Chan	09/29/2017					
ANGULAR ±1°	DWG TYPE CUST DWG	PROJECT CODE GT278		UNIT mm	SIZE A3	PART No. RJMG16XXXXX1XX	
UNLESS OTHERWISE SPECIFIED				SCALE NA	SHEET 1 OF 3	DWG No. RJMG16XXXXX1XX	REV. EX1

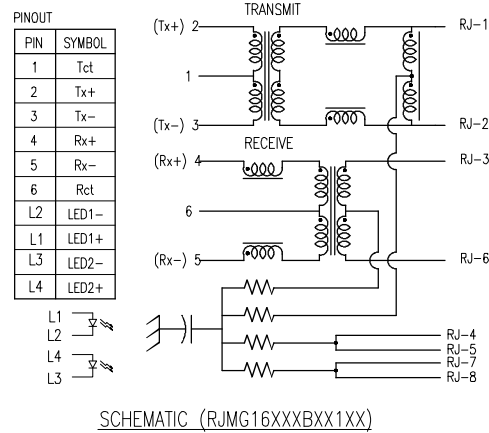
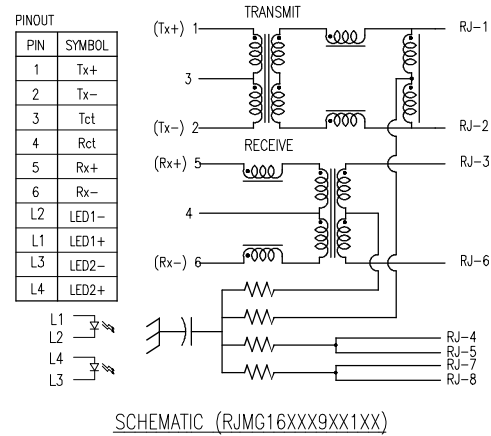
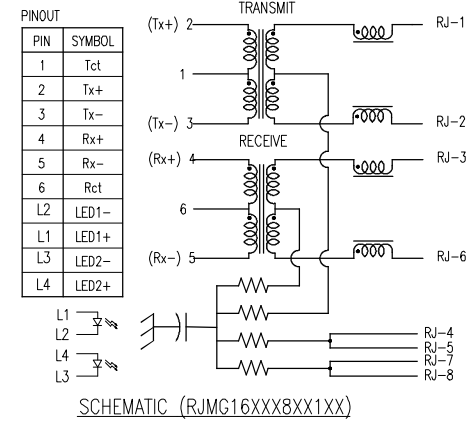
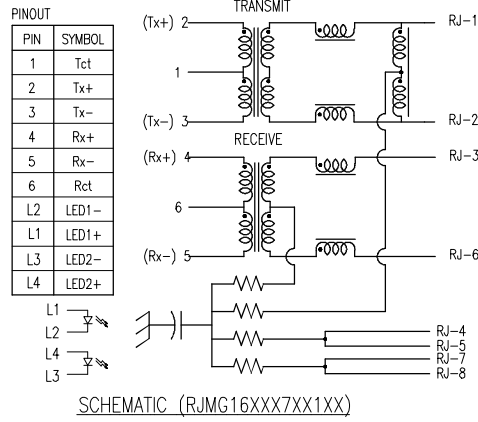
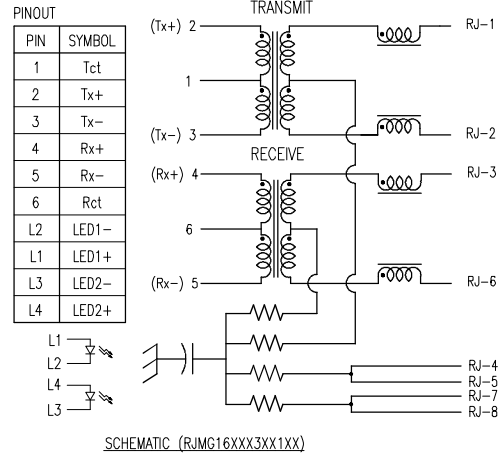
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EX1	/	UPDATE LED OPTIONS D/C CODE	09/29/2017	Lawrence Chan



RJMG16 X X X X X X 1 X X

**SHIELD OPTIONS**

3: STANDARD SHIELD WITH SIDE TABS

**LED1 (RIGHT SIDE)**

- 0: W/O LED
- 1: GREEN
- 2: YELLOW
- 4: GREEN/YELLOW
- 6: GREEN/ORANGE

**LED2 (LEFT SIDE)**

SEE LED1

**TERMINATION OPTIONS**

- 3: SEE THE SCHEMATIC IN PAGE 2.
- 7: SEE THE SCHEMATIC IN PAGE 2.
- 8: SEE THE SCHEMATIC IN PAGE 2.
- 9: SEE THE SCHEMATIC IN PAGE 2.
- B: SEE THE SCHEMATIC IN PAGE 2.

**COMPLIANCE CODE**

BLANCK: NONE-ROHS  
R: RoHS Compliant

**PLATING THICKNESS ON MATING CONTACTS**

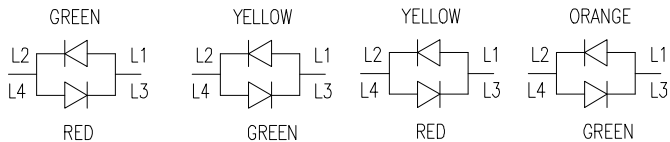
AND SHIELD SPEC  
L: Gold Flash, STAINLESS STEEL T=0.2MM.  
M: Gold 15u in, STAINLESS STEEL T=0.2MM.  
N: Gold 30u in, STAINLESS STEEL T=0.2MM.

**TIA WIRING**

0: STANDARD

**TURNS RATIO (TRANSMIT)**

1: 1:1



TOLERANCE	APPROVALS	DATE	TITLE		PART No.			
X. X.X ±0.35 X.XX ±0.25 X.XXX ±0.15	DRAWN Arvin Ye	09/29/2017	SINGLE PORT RJmag CONNECTOR SHIELD, WITH R&C TERMINATION 10/100		RJM616XXXXXX1XX			
ANGULAR ±1°	CHECKED Vivian Wen	09/29/2017	APPROVED Lawrence Chan		UNIT mm	SIZE A3	DVG No. RJM616XXXXXX1XX	
UNLESS OTHERWISE SPECIFIED	DWG TYPE CUST DWG	PROJECT CODE GT278	SCALE NA	SHEET 2 OF 3	REV. EX1			

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TURN RATIO 1:1±5%

PARAMETER	TYPE	LIMITS (MAX. OR MIN.)	FREQUENCY RANGE/TEST CONDITIONS
INSERTION LOSS (RX/TX)	-0.8dB TYP.	-1.0dB MAX.	1-100 MHz
RETURN LOSS (RX/TX)	-22dB TYP. -18dB TYP. -12dB TYP.	-18dB MIN. -18+20log(f/30)dB MIN. -12dB MIN.	1-30 MHz 30-60 MHz 60-80 MHz
DC RESISTANCE	0.5 ohm MIN.	1.0 ohm MAX full 0.5 ohm MAX half	DC
CM-CM REJECTION	-40dB TYP.	-30dB MIN.	0-100MHz
CM-DM REJECTION	-40dB TYP.	-35dB MIN.	0-100MHz
CROSSTALK (PAIR TO PAIR)	-38dB TYP.	-35dB MIN.	0-100MHz
HIPOT (ISOLATION)	2.25KV/1.5KVrms.	2.25KV/1.5KVrms.	60S DC/AC
OCL	500uH TYP.	350uH MIN.	100KHz 8mV DC BIAS

LED PERFORMANCE:

PARAMETER	SINGLE COLOUR		BICOLOUR		UNITS
	GREEN	YELLOW	GREEN	ORANGE	
FORWARD CURRENT IF MAX	30	30	30		mA
REVERSE CURRENT IR MAX	10	10	10		uA
REVERSE VOLTAGE VR MAX	-5	-5	-5		V
T OPERATURE TOP	-40~+85	-40~+85	-40~+85		°C
T SOLDERING TURE TS	260+/-5	260+/-5	260+/-5		°C
POWER DISS. Pd	100	100	100		mW
PEAK WAVELENGTH	565	585	565	605	nM
FORWARD VOLTAGE TYP	2.5	2.1	2.2	2.0	V
FORWARD VOLTAGE MAX	2.9	2.6	2.6	2.6	V

**MATERIALS:**

INSULATOR: THERMOPLASTIC POLYESTER, NYLON  
 COLOR: BLACK  
 FLAMMABILITY RATING UL 94V-0  
 CONTACTS (RJ MAG): PHOSPHOR BRONZE  
 PLATING: SELECTIVE GOLD OVER MATING SURFACES.  
 100 MICRONS TIN PLATING ON TAILS.  
 SHIELD: STAINLESS STEEL T=0.2MM .  
 DIMENSIONS MARKED WITH "\*" SHALL BE MEASURED.

**MECHANICAL FEATURES:**

SOLDERABILITY: MIL-STD-202, METHOD 208.  
 MATING/UNMATING FORCE:  
 RJ PORT :MATING/UNMATING 2.1Kg MAX  
 RETENTION FORCE FOR RJ PORT: 5Kg FOR 1 MINUTE  
 MEET FCC PART 68.500 REQUIREMENTS.

**Environmental**

OPERATING TEMPERATURE: 0°C TO +70°C.  
 STORAGE TEMPERATURE: -40°C TO +85°C.  
 SOLDERING TEMPERATURE: 260°C FOR 10 SECONDS  
 ALTITUDE OPERATING RANGE: SEA LEVEL TO 3000m  
 Humidity: per MIL-STD-1344A, method 1002.1, test condition B  
 Thermal Shock: per MIL-STD-1344A, method 1003.1, test condition A  
 Vibration: per MIL-STD-1344A, method 2005.1, test condition J  
 Mechanical Shock: per MIL-STD-1344A, method 2004.1, test condition C  
 Salt Spray: 24 hours per MIL-STD-1344A, method 1001.1, test condition B

TOLERANCE	APPROVALS	DATE	TITLE		Amphenol®			
X. X.X ±0.35 X.XX ±0.25 X.XXX ±0.15	DRAWN Arvin Ye	09/29/2017	SINGLE PORT RJmag CONNECTOR SHIELD, WITH R&C TERMINATION 10/100		Amphenol Corporation Amphenol Taiwan Corporation			
	CHECKED Vivian Wen	09/29/2017						
	APPROVED Lawrence Chan	09/29/2017						
ANGULAR ±1°				UNIT mm	SIZE A3	PART No. RJMG16XXXXXX1XX		
UNLESS OTHERWISE SPECIFIED	DWG TYPE CUST DWG	PROJECT CODE GT278		SCALE NA	SHEET 3 OF 3	DWG No. RJMG16XXXXXX1XX		REV. EX1

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