

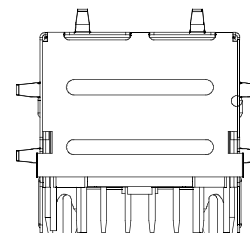
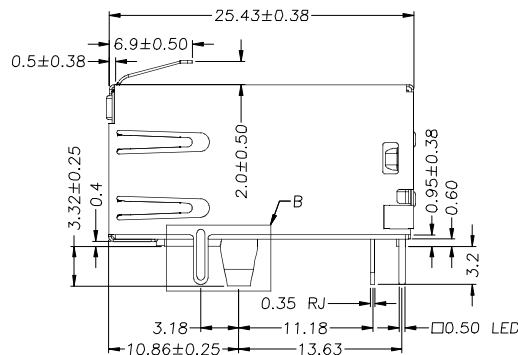
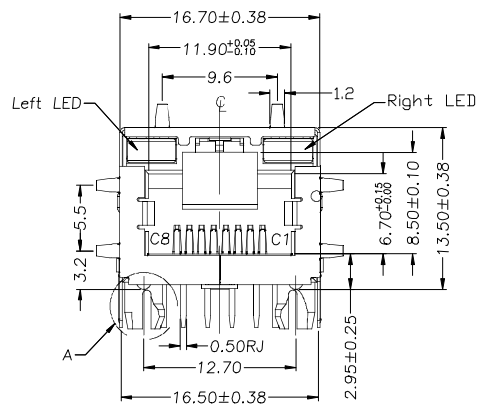
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The marking on this product doesn't contain environmental hazardous materials per Material Specification SS-00259 for Sony GP compliant or per directive 2011/65/EU for RoHS compliant.

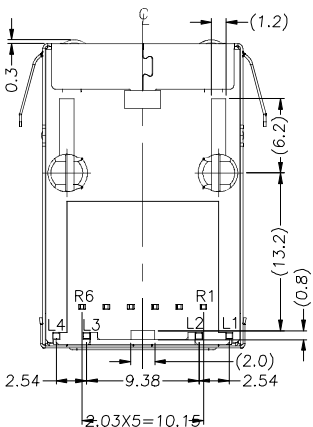
MFG CODE: []

CUSTOMER DRAWING
PRELIMINARY RELEASE
SUBJECT TO CHANGE

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



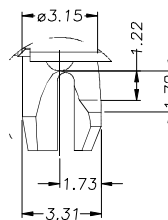
Back View



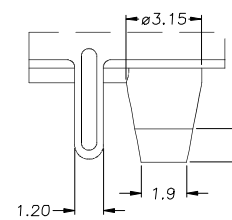
DATE CODE
Y=YEAR
WW=WEEK
D=DAY

RJMG16XXXXXX1XX
YWW XXX...
XXX:LINE CODE

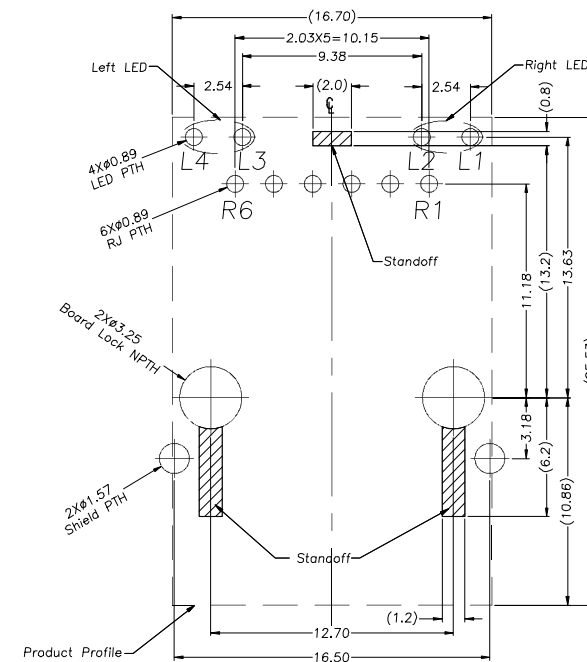
Amphenol



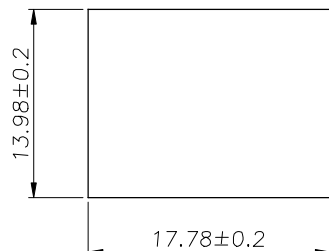
Detail A



Detail B



RECOMMENDED PCB LAYOUT
(ALL TOLERANCES ARE ± 0.05)



RECOMMENDED PANEL CUTOUT



TOLERANCE		APPROVALS		DATE		TITLE		Amphenol®			
X.		DRAWN		09/29/2017		SINGLE PORT RJmag CONNECTOR		Amphenol Corporation			
X.X		Arvin Ye		09/29/2017		SHIELD, WITH R&C TERMINATION		Amphenol Taiwan Corporation			
X.XX		Vivian Wen		09/29/2017		10/100		PART No. RJMG16XXXXXX1XX			
X.XXX		LAWRENCE CHAN		09/29/2017		DWG TYPE		DWG No. RJMG16XXXXXX1XX			
ANGULAR		CUST DWG		GT278		UNLESS OTHERWISE SPECIFIED		REV. EX1			

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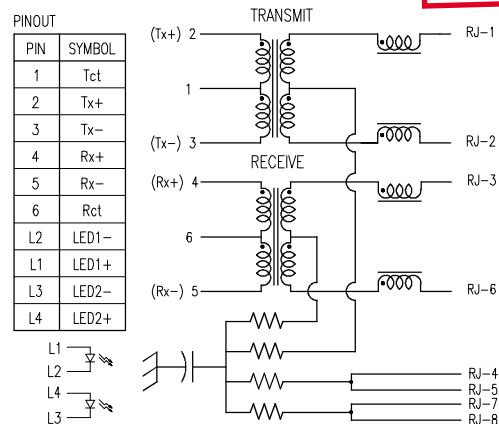
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MFG CODE: _____

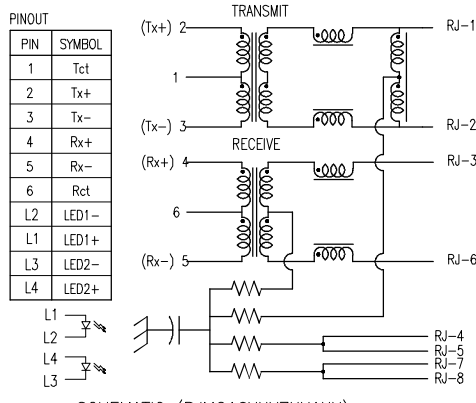
CUSTOMER DRAWING

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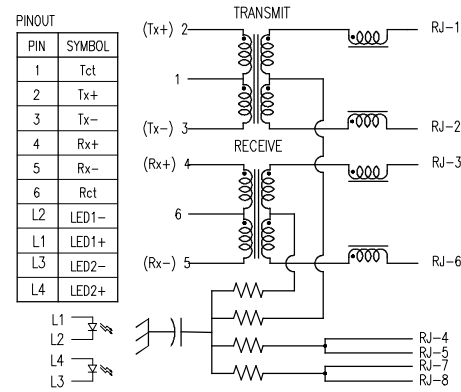
REVISIONS				
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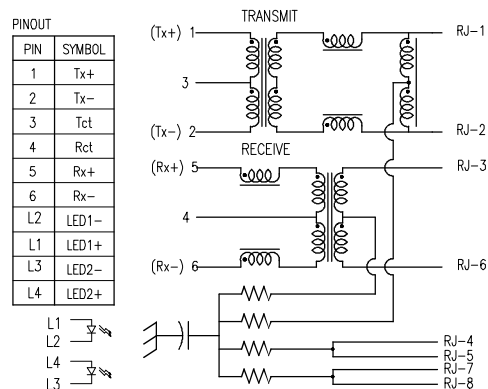
SCHEMATIC (RJMG16XXX3XX1XX)



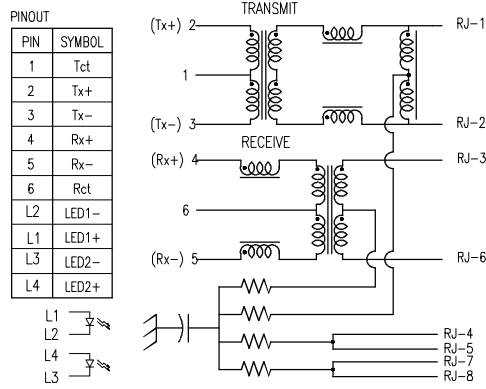
SCHEMATIC (RJMG16XXX7XX1XX)



SCHEMATIC (RJMG16XXX8XX1XX)



SCHEMATIC (RJMG16XXX9XX1XX)



SCHEMATIC (RJMG16XXXBXX1XX)

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

BLANK: NONE-ROHS
R: RoHS Compliant

PLATING THICKNESS ON MATING CONTACTS

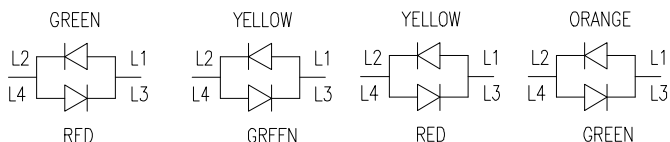
AND SHIELD SPEC
L: Gold Flash, STAINLESS STEEL T=0.2MM.
M: Gold 15u in, STAINLESS STEEL T=0.2MM.
N: Gold 30u in, STAINLESS STEEL T=0.2MM.

TIA WIRING

0: STANDARD

TURNS RATIO (TRANSMIT)

1: 1:1



BI-COLOR LED DETAIL

TOLERANCE	APPROVALS	DATE	TITLE		PART No.			
X. ±0.35 X.X ±0.25 X.XX ±0.15	DRAWN Arvin Ye	09/29/2017	SINGLE PORT RJmag CONNECTOR		RJMG16XXXXXX1XX			
ANGULAR ±1°	CHECKED Vivian Wen	09/29/2017	SHIELD, WITH R&C TERMINATION		RJMG16XXXXXX1XX			
UNLESS OTHERWISE SPECIFIED	APPROVED Lawrence Chan	09/29/2017	10/100		REV. EX1			
	DWG TYPE CUST DWG	PROJECT CODE GT278	UNIT mm	SIZE A3	SHEET 2 OF 3			
			SCALE NA					

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MFG CODE:

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

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		℃
T SOLDERINGTURE TS	260+/-5	260+/-5	260+/-5		℃
POWER DISS. Pd	100	100	100		mW
PEAK WAVELENTH	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 (RJMG): PHOSPHOR BRONZE
PLATING: SELECTIVE GOLD OVER MATING SURFACES.
100 MICROINCHES 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

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X. X.X ±0.35 X.XX ±0.25 X.XXX ±0.15 ANGULAR ±1° UNLESS OTHERWISE SPECIFIED	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			PART No. RJMG16XXXXXX1XX			
	APPROVED Lawrence Chan	09/29/2017			DWG No. RJMG16XXXXXX1XX			
	DWG TYPE CUST DWG	PROJECT CODE GT278		UNIT mm	SIZE A3	SHEET 3 OF 3	REV. EX1	

Mouser Electronics

Authorized Distributor

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[RJMG163118101NR](#)