WINSOURCE ELECTRONICS

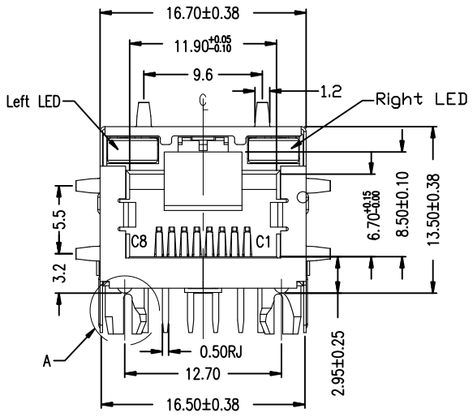
THE DATASHEET OF

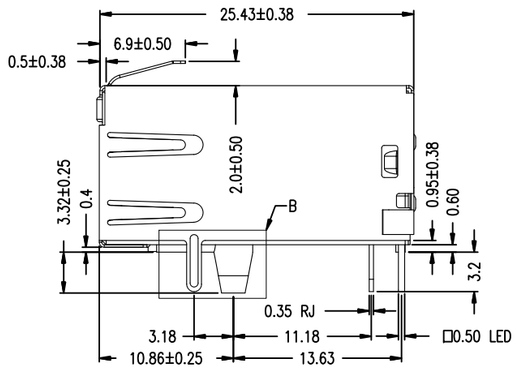
MG163

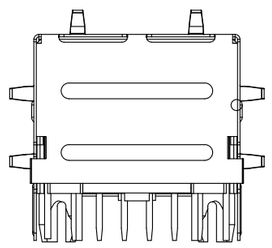
The marking on thisproduct doesn't contain environmental hazardous materials per Material Specification SS-00259 for Sony GP compliant or per directive 2011/65/EU for RoHS compliant.

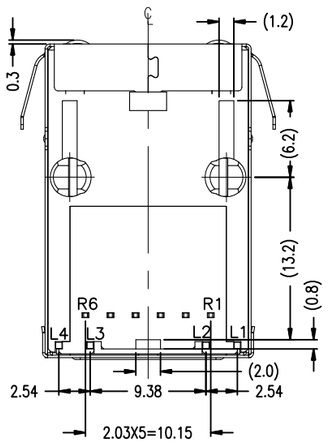
CUSTOMER DRAWING

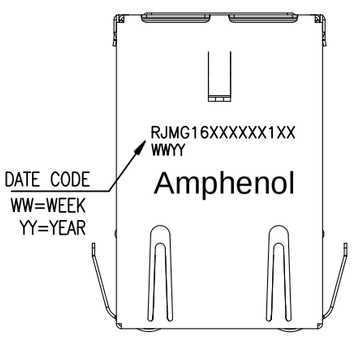
SYM	
C	N
D	N

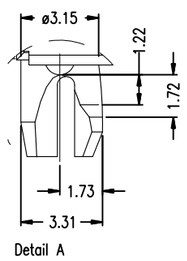




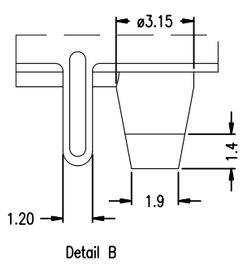




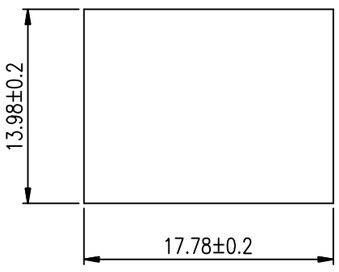




Detail A



Detail B



RECOMMENDED PANEL CUTOUT

TOLERANCE	APPROVALS	DATE
X. X.X ±0.35 X.XX ±0.25 X.XXX ±0.15 ANGULAR ±1°	DRAWN Devin Yen	01/29/2015
	CHECKED Vivian Wen	01/29/2015
	APPROVED Roger Tsai	01/29/2015
UNLESS OTHERWISE SPECIFIED	DWG TYPE CUST DWG	PROJECT CODE GT278

TITLE
SINGLE PORT R
SHIELD, WITH F
10/100

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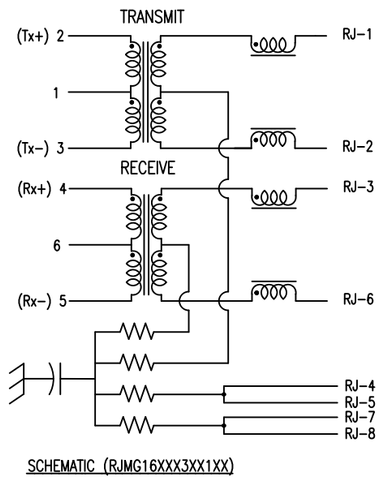
CUSTOMER DRAWING

SYM	
C	
D	

PINOUT

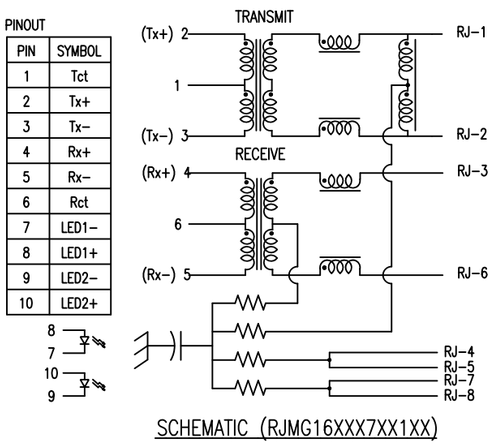
PIN	SYMBOL
1	Tct
2	Tx+
3	Tx–
4	Rx+
5	Rx–
6	Rct
7	LED1–
8	LED1+
9	LED2–
10	LED2+



SCHEMATIC (RJMG16XXX3XX1XX)

PINOUT

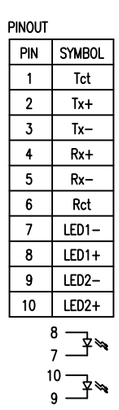
PIN	SYMBOL
1	Tct
2	Tx+
3	Tx–
4	Rx+
5	Rx–
6	Rct
7	LED1–
8	LED1+
9	LED2–
10	LED2+



SCHEMATIC (RJMG16XXX7XX1XX)

PINOUT

PIN	SYMBOL
1	Tct
2	Tx+
3	Tx–
4	Rx+
5	Rx–
6	Rct
7	LED1–
8	LED1+
9	LED2–
10	LED2+



SCHEMATIC (R

PINOUT

PIN	SYMBOL
1	Tx+
2	Tx–
3	Tct
4	Rct
5	Rx+
6	Rx–
7	LED1–
8	LED1+
9	LED2–
10	LED2+

SCHEMATIC (RJMG16XXX9XX1XX)

PINOUT

PIN	SYMBOL
1	Tct
2	Tx+
3	Tx–
4	Rx+
5	Rx–
6	Rct
7	LED1–
8	LED1+
9	LED2–
10	LED2+

SCHEMATIC (RJMG16XXXBXX1XX)

BI-

TOLERANCE	APPROVALS	DATE	TITLE
X. X.X ±0.35 X.XX ±0.25 X.XXX ±0.15 ANGULAR ±1°	DRAWN Devin Yen	01/29/2015	SINGLE PORT R SHIELD, WITH
	CHECKED Vivian Wen	01/29/2015	10/100
	APPROVED Roger Tsai	01/29/2015	
UNLESS OTHERWISE SPECIFIED	DWG TYPE CUST DWG	PROJECT CODE GT278	

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CUSTOMER DRAWING

SYM	
C	N
D	N

MATERIALS:

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

CONTACTS (RJMAG): 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

RJMG1-6 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.

TIA WIRING
0: STANDARD

TURNS RATIO (TRANSMIT)
1: 1:1

CO
BL
R:

PLA
L:
M:
N:

TOLERANCE	APPROVALS	DATE	TITLE
X.	DRAWN Devin Yen	01/29/2015	SINGLE PORT R
X.X ±0.35			SHIELD, WITH F
X.XX ±0.25	CHECKED Vivian Wen	01/29/2015	10/100
X.XXX ±0.15			
ANGULAR ±1°	APPROVED Roger Tsai	01/29/2015	
UNLESS OTHERWISE SPECIFIED	DWG TYPE CUST DWG	PROJECT CODE GT278	

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CUSTOMER DRAWING

SYM	
C	
D	N

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

PARAMETER	
	GR
FORWARD CURRENT IF MAX	
REVERSE CURRENT IR MAX	
REVERSE VOLTAGE VR MAX	
T OPERATURE TOP	−40
T SOLDERINGTURE TS	260
POWER DISS. Pd	1
PEAK WAVELENTH	
FORWARD VOLTAGE TYP	
FORWARD VOLTAGE MAX	

TOLERANCE	APPROVALS	DATE
X. X.X ±0.35 X.XX ±0.25 X.XXX ±0.15 ANGULAR ±1°	DRAWN Devin Yen	01/29/2015
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TITLE
SINGLE PORT R
SHIELD, WITH
10/100

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- NXP / Nexperia Information

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- Obsolete Management
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- Shortage Management
- Alternative Solution
- Excess Inventory Management