

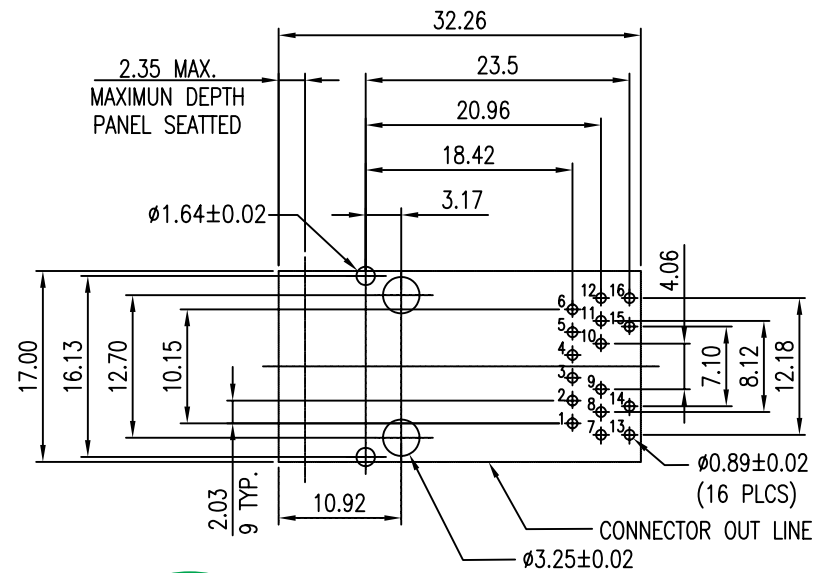
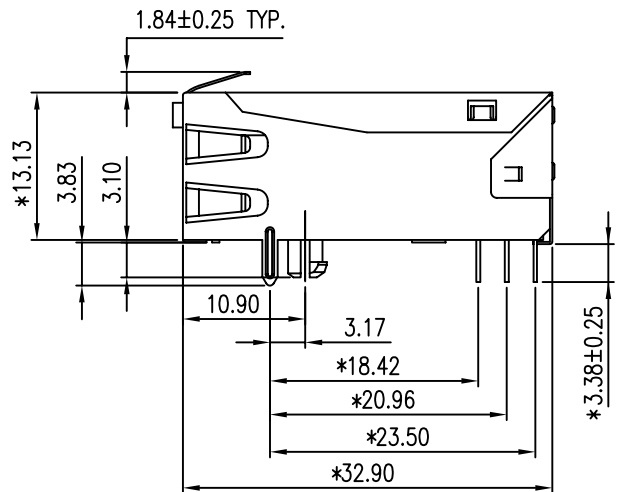
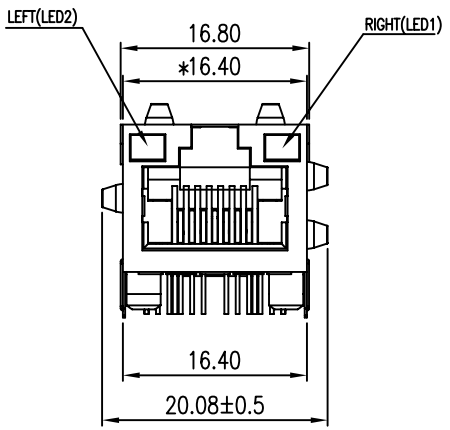
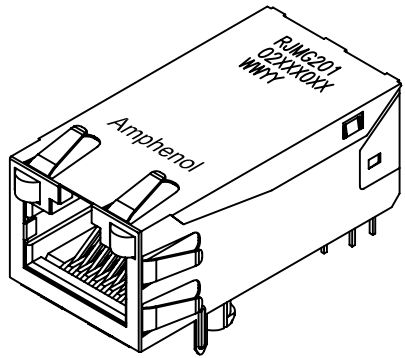
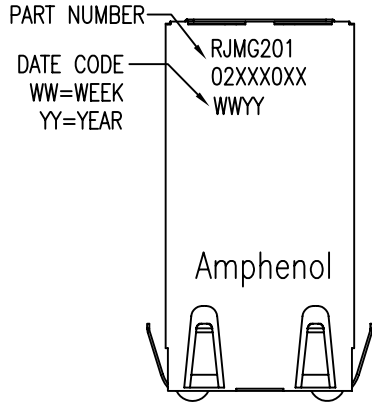
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CUSTOMER DRAWING

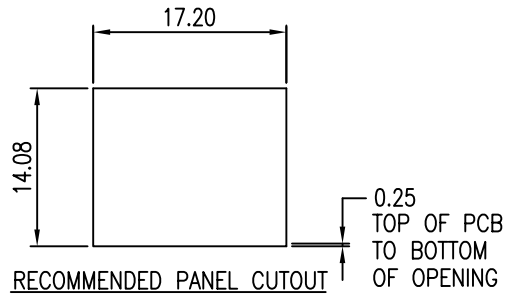
| REVISIONS | | | | |
|-----------|---------|-----------------------|------------|------------|
| SYM | ECN No. | DESCRIPTION | DATE | APPROVED |
| A7 | | RELEASE TO PRODUCTION | 01/03/2006 | Joseph Hsu |

MFG CODE: VHIGH1
 ** THIS PRODUCT DIDN'T HAVE ENVIRONMENT- RELATED SUBSTANCES PER MATERIALS SPECIFICATION #MS-S001, LEVEL 1. WHEN THE TIME SET SCHEDULE OF LEVEL 2 IS EXPIRY, THE SUBSTANCES SHALL NOT BE CONTAINED WITH THIS PRODUCT.

THIS PRODUCT COMPLIES WITH IEEE 802.3.



RECOMMENDED P.C.B LAYOUT COMPONENT SIDE OF BOARD



| STANDARD DIMENSION TOLERANCE FOR CONNECTOR | | APPROVALS | DATE | TITLE | Amphenol Corporation | | | | | | | | | |
|--|-------|-----------|------------|------------|---------------------------------|-----------------|-----------------|---------|------------|------------|---|--------------------------------|------------|--------------|
| .X | | | | | | | | DRAWN | Lucy Lee | 01/03/2006 | RJMg201 SERIES RJmag GIGABIT SINGLE PORT 1:1 RATIO | SCALE | N.A. | SHEET 1 OF 4 |
| .XX | ±0.2 | | | | | | | CHECKED | Jason Zhan | 01/03/2006 | | DRAWING NO. RJMg20102XXX0XX | REV. A7 | |
| .XXX | | APPROVED | Joseph Hsu | 01/03/2006 | | | | | | | | | | |
| STANDARD DIMENSION TOLERANCE FOR PC BOARD & PANNEL CUT OUT | | | | UNIT | SIZE | PART NO. | DRAWING NO. | REV. | | | | | | |
| .X | | | | MM | A3 | RJMg20102XXX0XX | RJMg20102XXX0XX | A7 | | | | | | |
| .XX | ±0.05 | | | | | | | | | | | | | |
| .XXX | | | | | | | | | | | | | | |

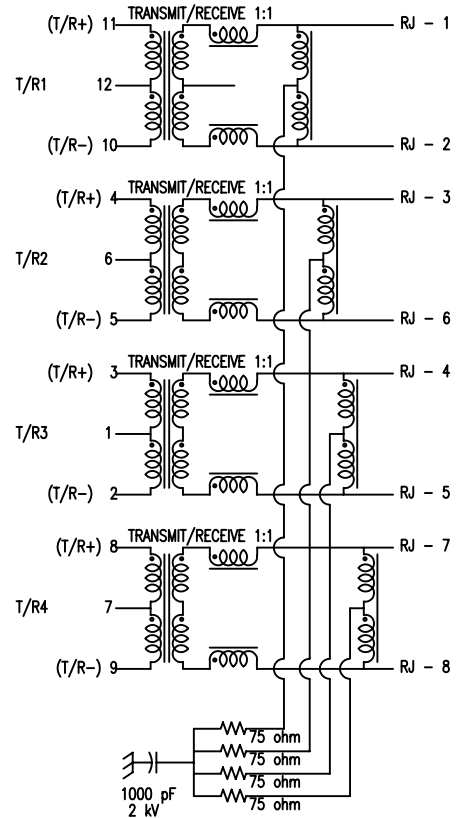
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CUSTOMER DRAWING

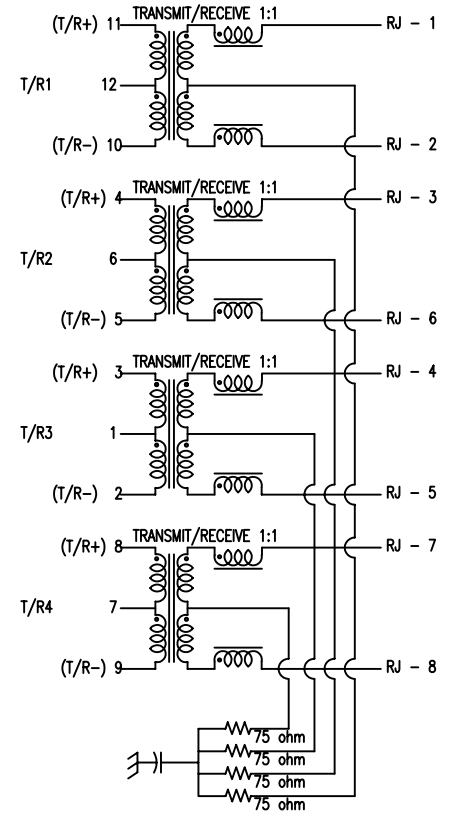
| REVISIONS | | | | |
|-----------|---------|-----------------------|------------|------------|
| SYM | ECN No. | DESCRIPTION | DATE | APPROVED |
| A7 | | RELEASE TO PRODUCTION | 01/03/2006 | Joseph Hsu |

MFG CODE: VHIGH1

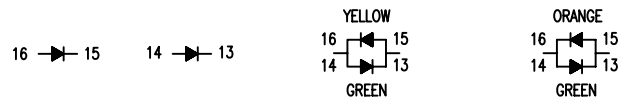
** THIS PRODUCT DIDN'T HAVE ENVIRONMENT- RELATED SUBSTANCES PER MATERIALS SPECIFICATION #MS-S001, LEVEL 1. WHEN THE TIME SET SCHEDULE OF LEVEL 2 IS EXPIRY, THE SUBSTANCES SHALL NOT BE CONTAINED WITH THIS PRODUCT.



SCHEMATIC RJMG20102XX10XX CAP. 1000 pF



SCHEMATIC RJMG20102XX20XX CAP. 1000 pF



LED DETAIL

| | | | | | | |
|------------------------|------------|---|---------------------------------|-----------------------------|--------------------------------|------------|
| APPROVALS | DATE | TITLE | Amphenol Corporation | | | |
| DRAWN Lucy Lee | 01/03/2006 | RJMG201 SERIES RJmag GIGABIT SINGLE PORT 1:1 RATIO | | | | |
| CHECKED Jason Zhan | 01/03/2006 | | | | | |
| APPROVED Joseph Hsu | 01/03/2006 | | | | | |
| | | UNIT MM | SIZE A3 | PART NO. RJMG20102XXX0XX | DRAWING NO. RJMG20102XXX0XX | REV. A7 |
| | | | SCALE N.A. | SHEET 2 OF 4 | | |

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CUSTOMER DRAWING

| REVISIONS | | | | |
|-----------|---------|-----------------------|------------|------------|
| SYM | ECN No. | DESCRIPTION | DATE | APPROVED |
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MFG CODE: VHGH1

** THIS PRODUCT DIDN'T HAVE ENVIRONMENT- RELATED SUBSTANCES PER MATERIALS SPECIFICATION #MS-S001, LEVEL 1. WHEN THE TIME SET SCHEDULE OF LEVEL 2 IS EXPIRY, THE SUBSTANCES SHALL NOT BE CONTAINED WITH THIS PRODUCT.

ELECTRICAL SPECIFICATION(@25° C)

LED PERFORMANCE

CONNECTOR PERFORMANCE

| PARAMETER | SINGLE COLOUR | | BICOLOUR | | | | UNITS |
|------------------------|---------------|---------|----------|---------|---------|---------|-------------------|
| | GREEN | YELLOW | GREEN | YELLOW | GREEN | ORANGE | |
| FORWARD CURRENT IF MAX | 30 | 30 | 30 | 30 | 30 | 30 | mA |
| REVERSE CURRENT IR MAX | 10 | 10 | 10 | 10 | 10 | 10 | uA |
| REVERSE VOLTAGE VR MAX | -5 | -5 | -5 | -5 | -5 | -5 | v |
| T OPERATURE | -40~+85 | -40~+85 | -40~+85 | -40~+85 | -40~+85 | -40~+85 | °C |
| T SOLDERING | 260+/-5 | 260+/-5 | 260+/-5 | 260+/-5 | 260+/-5 | 260+/-5 | °C |
| POWER DISS. Pd | 100 | 100 | 100 | 100 | 100 | 100 | mW |
| INTENSITY Iv | 45 Min | 15 Min | 20 Min | 30 Min | 20 Min | 30 Min | MCD (@IF=20mA) |
| PEAK WAVELENTH | 565 | 585 | 565 | 585 | 565 | 605 | nM |
| FORWARD VOLTAGE TYP | 2.5 | 2.1 | 2.2 | 2.1 | 2.2 | 2.0 | V (@IF=20mA) |
| FORWARD VOLTAGE MAX | 2.9 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | V (@IF=20mA) |

| PARAMETER | LIMITS (MAX. OR MIN.) | FREQUENCY RANGE/ TEST CONDITIONS |
|-----------------------------|--|----------------------------------|
| INSERTION LOSS (RX/TX) | -0.8dB MAX. -1.2dB MAX. | 0.1-100 MHz 100-125 MHz |
| RETURN LOSS (RX/TX) | -16dB MIN. -10+20 log(f/80MHz)dB MIN. | 0.5-40 MHz 40-100 MHz |
| CM-CM REJECTION | -30dB MIN. | 100 KHz-100 MHz |
| CM-DM REJECTION | -35dB MIN. | 100 KHz-100 MHz |
| CROSSTALK ISOLATION (RX/TX) | -30+20 log(f/100MHz)dB MIN. | 100 KHz-100 MHz |
| HIPOT (ISOLATION) | 1.5kVrms MIN. | 60S |
| OCL | 350uH MIN. | 100KHz 100mV 8mA |
| TURN RATIO | 1:1±5% | |



| APPROVALS | DATE | TITLE | Amphenol® Amphenol Corporation | |
|------------------------|------------|---|-----------------------------------|-----------------------------|
| DRAWN Lucy Lee | 01/03/2006 | RJMG201 SERIES RJmag GIGABIT SINGLE PORT 1:1 RATIO | SCALE | N.A. |
| CHECKED Jason Zhan | 01/03/2006 | | SHEET | 3 OF 4 |
| APPROVED Joseph Hsu | 01/03/2006 | | | |
| | | UNIT MM | SIZE A3 | PART NO. RJMG20102XXX0XX |
| | | DRAWING NO. RJMG20102XXX0XX | REV. A7 | |

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MFG CODE: VHIGH1

CUSTOMER DRAWING

REVISIONS

| SYM | ECN No. | DESCRIPTION | DATE | APPROVED |
|-----|---------|-----------------------|------------|------------|
| A7 | | RELEASE TO PRODUCTION | 01/03/2006 | Joseph Hsu |

THIS PRODUCT COMPLIES WITH IEEE 802.3.

MATERIALS:

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

CONTACTS (RJMG): PHOSPHOR BRONZE
PLATING: SELECTIVE GOLD OVER MATING SURFACES.
100 MICROINCHES TIN/LEAD ALLOY OR PURE TIN ON TAILS.

SHIELD: COPPER ALLOY T=0.2MM,TIN/LEAD 100u" MIN OR NICKEL 50u"MIN

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

PACKAGING: MEET FCC PART 68.500 REQUIREMENTS.

Environmental

OPERATING TEMPERATURE:0°C TO +70°C.

STORAGE TEMPERATURE:-40°C TO +105°C.

SOLDERING TEMPERATURE: 220°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 I

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

RJMG-2010 - 2 X- X X- 0 X X

COMPLIANCE CODE

BLANK: NONE-RoHS

R: RoHS Compliant

PLATING AND PACKAGE

O: Gold Flash,Copper Alloy Shield with Sn/Pb 100u inches.

1: Gold 15u Inches,Copper Alloy Shield with Sn/Pb 100u inches.

2: Gold 30u Inches,Copper Alloy Shield with Sn/Pb 100u inches.

L: Gold Flash,Copper Alloy Shield with Nickel 50u inches.

M: Gold 15u Inches, Copper Alloy Shield with Nickel 50u inches.

N: Gold 30u Inches, Copper Alloy Shield with Nickel 50u inches.

TERMINATION OPTIONS

1: 4 X 75 OHM RESISTORS,12 cores 1000 pf (2KV)

2: 4 X 75 OHM RESISTORS, 8 cores version1 1000 pf (2KV)

LED1 (RIGHT SIDE)

0- No LED (Blocked Hole)

1- Green

2- Yellow

4- Bi-color Green/Yellow

6- Bi color Green/Orange

LED2 (LEFT SIDE) SEE LED1 OPTIONS



| APPROVALS | | DATE | TITLE | | Amphenol® Amphenol Corporation | |
|-----------|------------|------------|---|-----------------------------|-----------------------------------|------------|
| DRAWN | Lucy Lee | 01/03/2006 | RJMG201 SERIES RJmag GIGABIT SINGLE PORT 1:1 RATIO | | SCALE N.A. SHEET 4 OF 4 | |
| CHECKED | Jason Zhan | 01/03/2006 | | | | |
| APPROVED | Joseph Hsu | 01/03/2006 | | | | |
| | | UNIT MM | SIZE A3 | PART NO. RJMG20102XXX0XX | DRAWING NO. RJMG20102XXX0XX | REV. A7 |