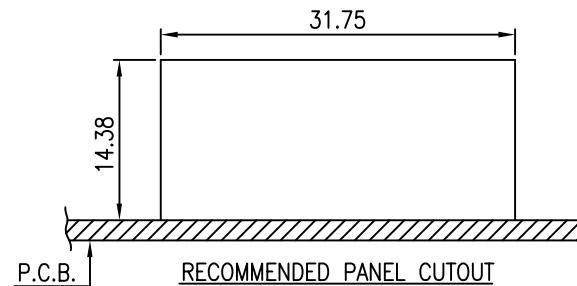
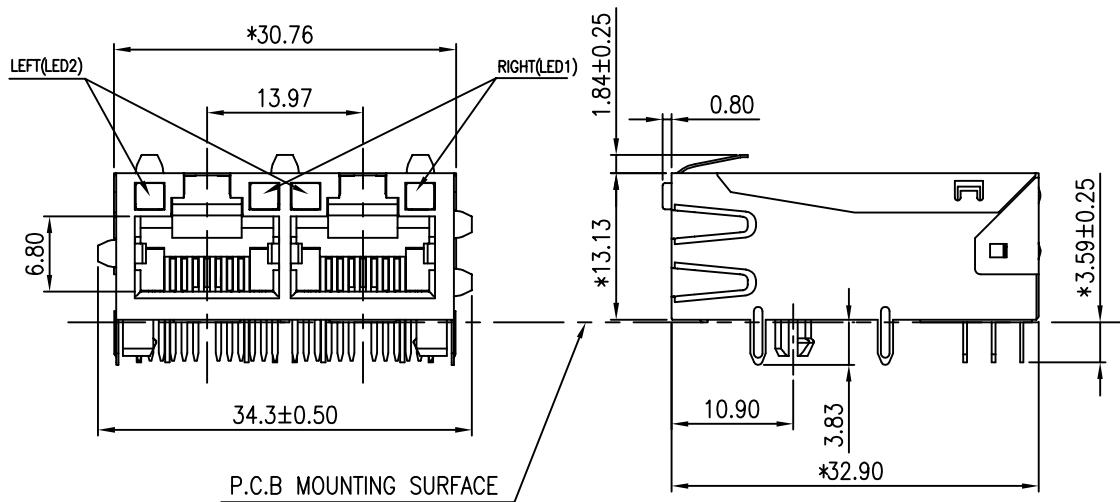
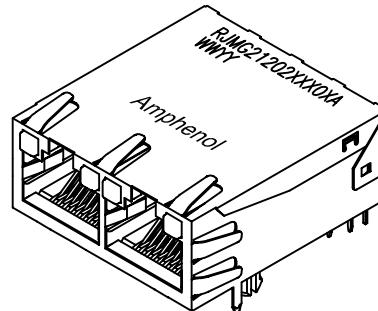
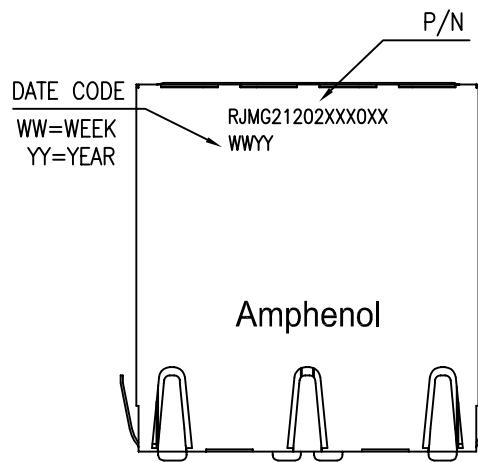


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MFG CODE: VHGH1

CUSTOMER DRAWING ORIGINAL



STANDARD DIMENSION TOLERANCE FOR CONNECTOR

.X	
.XX	±0.2
.XXX	

STANDARD DIMENSION TOLERANCE FOR PCB BOARD & PANNEL CUT OUT

.X	
.XX	±0.05
.XXX	

APPROVALS

DRAWN
Charlie Gui

CHECKED
Nealson Wang

APPROVED
HC Liu

DATE

Jan.25.07

Jan.25.07

Jan.25.07

TITLE

Rjmag 1000 BASE
T CONNECTOR
1:1 RATIO
2 PORT

Amphenol®

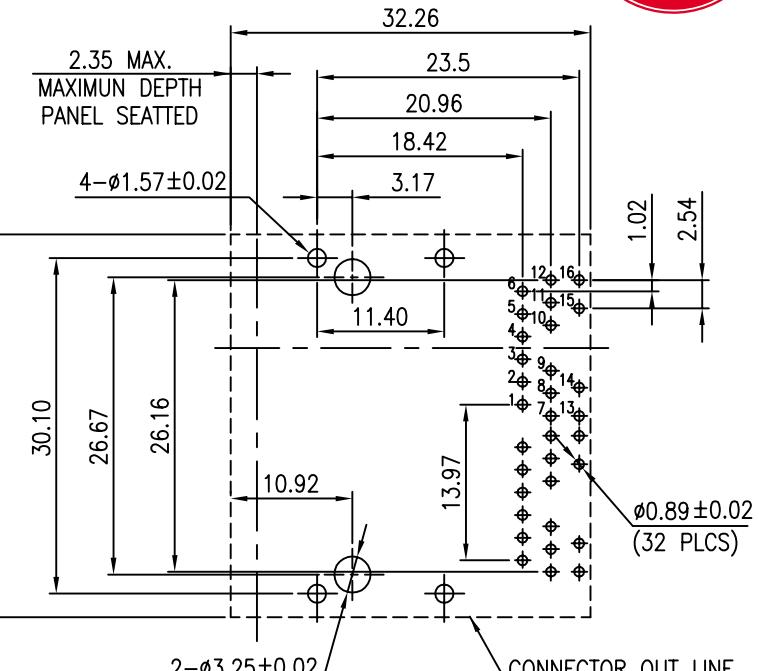
Amphenol Corporation

SCALE N.A. SHEET 1 OF 4

SIZE A3 PART NO. RJMG21202XXX0XX

DRAWING NO. RJMG21202XXX0XX REV. B5

REVISIONS			
SYM	ECN No.	DESCRIPTION	DATE APPROVED
A		RELEASE TO PRODUCTION	01/09/2004 Arthur Huang
B		CHANGE DRAWING	02/02/2004 Arthur Huang
B1	QI-ECN-067-04	CHANGE THE TITLE BLOCK	10/29/2004 John De Jong
B2	QI-ECN-087-04	CHANGE THE P/N CODE	11/11/2004 John De Jong
B3	QI-ECN-091-04	CHANGE THE LAST CODE OF THE MARK P/N	11/15/2004 John De Jong
B4		CANCEL 3LEAD LED AND CHANGE SHIELD SPEC.	05/26/2005 JOSEPH
B5	NE-07043	CHANGE PLATED DESCRIPTION	01/25/2007 HC Liu



RECOMMENDED P.C.B LAYOUT (GENERAL TOLERANCE: ±0.05)
COMPONENT SIDE OF BOARD

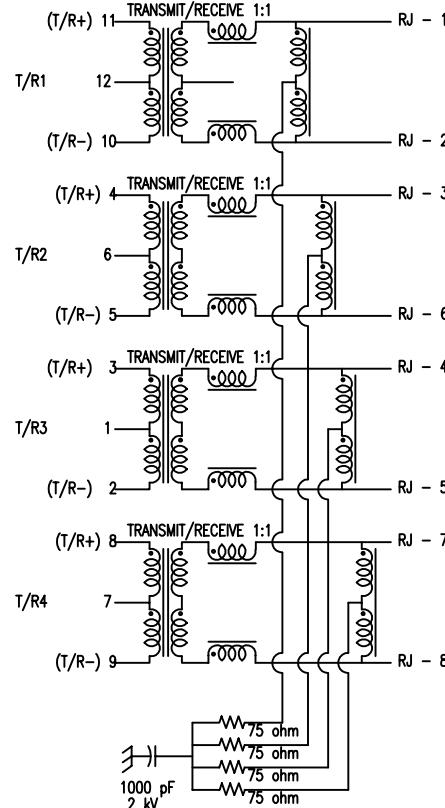
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MFG CODE: VHGH1

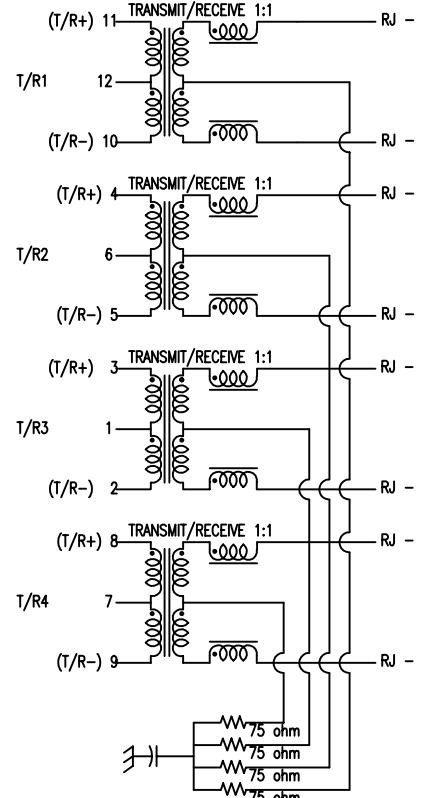
CUSTOMER DRAWING

ORIGINAL

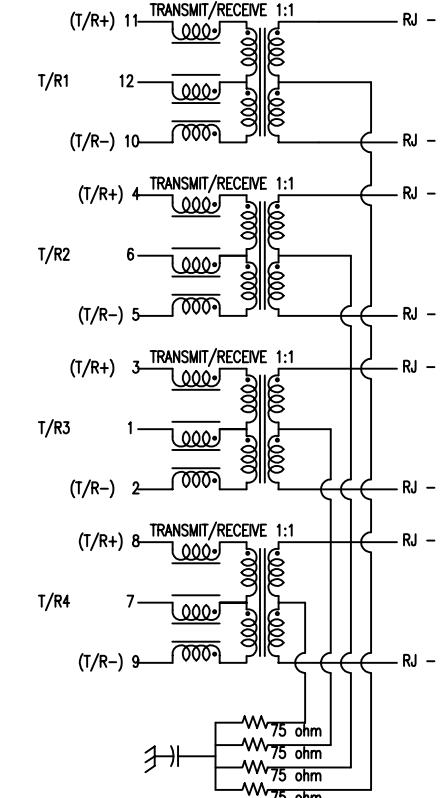
REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	APPROVED
A		RELEASE TO PRODUCTION	01/09/2004	Arthur Huang
B	ECS04063	CHANGE DRAWING	02/02/2004	Arthur Huang
B1	QI-ECN-067-04	CHANGE THE TITLE BLOCK	10/29/2004	John De Jong
B2	QI-ECN-087-04	CHANGE THE P/N CODE	11/11/2004	John De Jong
B3	QI-ECN-091-04	CHANGE THE LAST CODE OF THE MARK P/N	11/15/2004	John De Jong
B4		CANCEL 3LEAD LED AND CHANGE SHIELD SPEC.	05/26/2005	JOSEPH
B5	NE-07043	CHANGE PLATED DESCRIPTION	01/25/2007	HC Liu



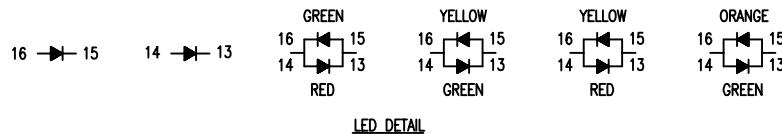
SCHEMATIC RJMG21202XX10XX CAP. 1000 pF



SCHEMATIC RJMG21202XX20XX CAP. 1000 pF
SCHEMATIC RJMG21202XX50XX CAP. 68 pF



SCHEMATIC RJMG21202XX30XX CAP. 1000 pF



APPROVALS		DATE	TITLE	
DRAWN	Charlie Gui	Jan.25.07	RJmag 1000 BASE	
CHECKED	Nealson Wang	Jan.25.07	T CONNECTOR	
APPROVED	HC Liu	Jan.25.07	1:1 RATIO 2 PORT	
		SIZE	PART NO.	DRAWING NO.
		A3	RJMG21202XXX0XX	RJMG21202XXX0XX
		REV.		B5

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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.

CUSTOMER DRAWING

ORIGINAL

REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	APPROVED
A		RELEASE TO PRODUCTION	01/09/2004	Arthur Huang
B	ECS04063	CHANGE DRAWING	02/02/2004	Arthur Huang
B1	QI-ECN-067-04	CHANGE THE TITLE BLOCK	10/29/2004	John De Jong
B2	QI-ECN-087-04	CHANGE THE P/N CODE	11/11/2004	John De Jong
B3	QI-ECN-091-04	CHANGE THE LAST CODE OF THE MARK P/N	11/15/2004	John De Jong
B4		CANCEL 3 LEAD LED AND CHANGE SHIELD SPEC.	05/26/2005	JOSEPH
B5	NE-07043	CHANGE PLATED DESCRIPTION	01/25/2007	HC Liu

ELECTRICAL SPECIFICATION(@25° C)

LED PERFORMANCE

PARAMETER	SINGLE COLOUR		BICOLOUR				UNITS
	GREEN	YELLOW	GREEN	YELLOW	GREEN	ORANGE	
FORWARD CURRENT IF MAX	30	30	30		30		mA
REVERSE CURRENT IR MAX	10	10	10		10		uA
REVERSE VOLTAGE VR MAX	-5	-5	-5		-5		V
T OPERATURE	-40~+85	-40~+85	-40~+85		-40~+85		°C
T SOLDERING	260+/-5		260+/-5		260+/-5		°C
POWER DISS. Pd	1/16	100	1/16		100		mW
INTENSITY Iv	45 Min	15 Min	20 Min	30 Min	20 Min	30 Min	MCD (@If=20mA)
PEAK WAVELENGTH	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)

CONNECTOR PERFORMANCE

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. -12+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.	100 KHz 100mV 8mA
TURN RATIO	1:1±5%	



APPROVALS	DATE	TITLE		Amphenol®	
DRAWN Charlie Gui	Jan.25,07	Rjmag 1000 BASE T CONNECTOR 1:1 RATIO 2 PORT		Amphenol Corporation	
CHECKED Nealson Wang	Jan.25,07				
APPROVED HC Liu	Jan.25,07				
SCALE N.A.	SHEET 3 OF 4	SIZE A3	PART NO. RJMG21202XXX0XX	DRAWING NO. RJMG21202XXX0XX	REV. B5
		UNIT MM			

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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.

THIS PRODUCT COMPLIES WITH IEEE 802.3.

MATERIALS:

INSULATOR: THERMOPLASTIC POLYESTER,

COLOR: BLACK

FLAMMABILITY RATING UL 94V-0

CONTACTS (RJMAG): PHOSPHOR BRONZE

PLATING: SELECTIVE GOLD OVER MATING SURFACES.

100 MICROINCHES MIN. PURE TIN ON SOLDER TAILS.

50 MICROINCHES MIN. Ni UNDERPLATED OVER ALL.

SHIELD: COPPER ALLOY T=0.2MM,PURE TIN 100u" MIN

AND NICKEL 50u"MIN UNDERPLATED OVERALL

OR STAINLESS STEEL.

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: 30PCS/PLASTIC TRAY,6 TRAYS/BOX

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 II

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

CUSTOMER DRAWING ORIGINAL

RJMG-2120 - 2 X- X X- 0 X X

REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	APPROVED
A		RELEASE TO PRODUCTION	01/09/2004	Arthur Huang
B	ECS04063	CHANGE DRAWING	02/02/2004	Arthur Huang
B1	QI-ECN-067-04	CHANGE THE TITLE BLOCK	10/29/2004	John De Jong
B2	QI-ECN-087-04	CHANGE THE P/N CODE	11/11/2004	John De Jong
B3	QI-ECN-091-04	CHANGE THE LAST CODE OF THE MARK P/N	11/15/2004	John De Jong
B4		CANCEL 3LEAD LED AND CHANGE SHIELD SPEC.	05/26/2005	JOSEPH
B5	NE-07043	CHANGE PLATED DESCRIPTION	01/25/2007	HC Liu

A: A electrical specifications

L: Lead-Free Compliant; A electrical specifications

R: RoHS Compliant; A electrical specifications

plating and packaging

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

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

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

LED1 (RIGHT SIDE)

0- No LED (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

TERMINATION OPTIONS

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

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

3: 4 X 75 OHM RESISTORS, 8 cofes version2 1000 pf (2KV)

5: 4 X 75 OHM RESISTORS, 8 cofes 68 pf

LED2 (LEFT SIDE) SEE LED1 OPTIONS



APPROVALS	DATE	TITLE			Amphenol®	Amphenol Corporation
DRAWN	Charlie Gui	Jan.25,07	Rjmag 1000 BASE	T CONNECTOR	1:1 RATIO	2 PORT
CHECKED	Nealson Wang	Jan.25,07	SCALE N.A.			SCALE N.A.
APPROVED	HC Liu	Jan.25,07	SCALE N.A.			SCALE N.A.
		SIZE	PART NO.	DRAWING NO.	REV.	
		MM	A3	RJMG21202XXX0XX		RJMG21202XXX0XX B5