

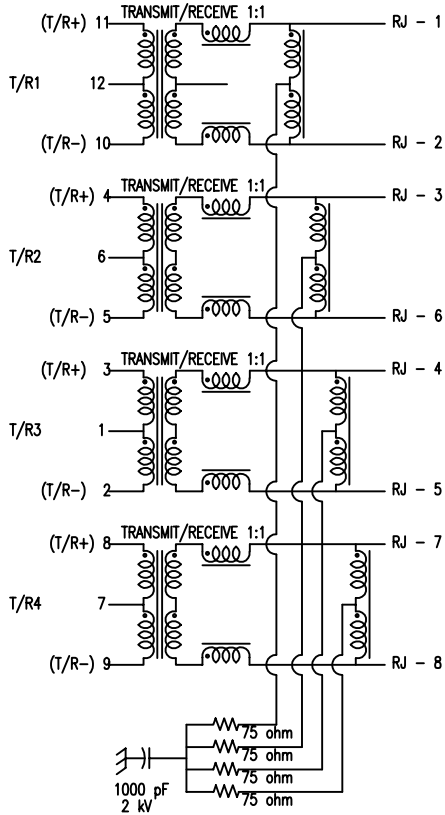


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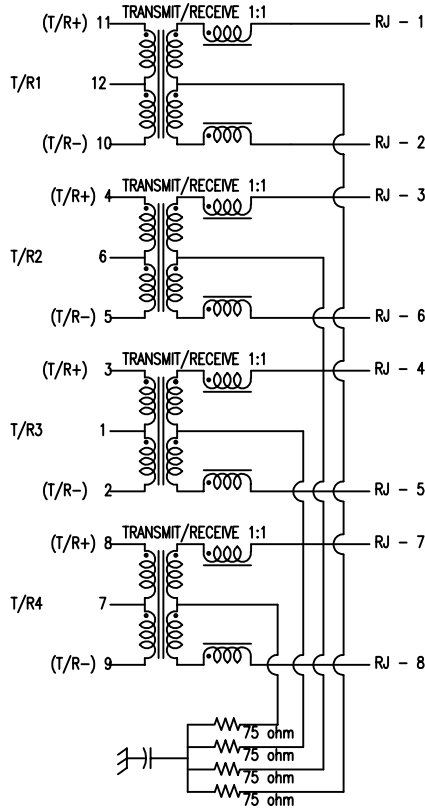
MFG CODE: VHGH1

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

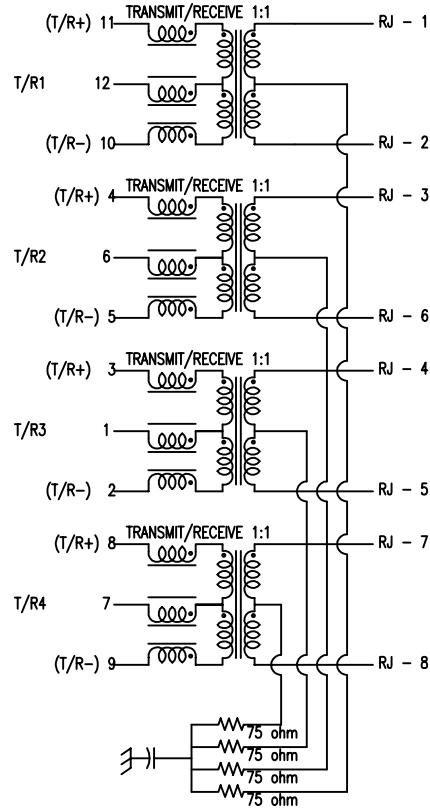


SCHEMATIC RJMG21202XX10XX CAP. 1000 pF

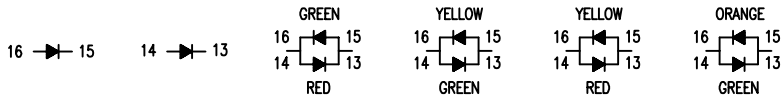


SCHEMATIC RJMG21202XX20XX CAP. 1000 pF

SCHEMATIC RJMG21202XX50XX CAP. 68 pF



SCHEMATIC RJMG21202XX30XX CAP. 1000 pF



LED DETAIL

APPROVALS		DATE	TITLE RJmag 1000 BASE T CONNECTOR 1:1 RATIO 2 PORT		<b>Amphenol®</b> <b>Amphenol Corporation</b>	
DRAWN	Charlie Gui	Jan.25,07				
CHECKED	Nealson Wang	Jan.25,07				
APPROVED	HC Liu	Jan.25,07				
		UNIT MM	SIZE A3	PART NO. RJMG21202XXX0XX	DRAWING NO. RJMG21202XXX0XX	REV. B5

SCALE N.A. SHEET 2 OF 4

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\*\* 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

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		℃
T SOLDERING	260+/-5		260+/-5		260+/-5		℃
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 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)

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B5	NE-07043	CHANGE PLATED DESCRIPTION	01/25/2007	HC Liu



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

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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 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

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

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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



#### 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

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