

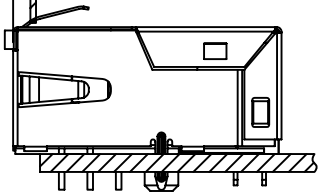
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CUSTOMER DRAWING

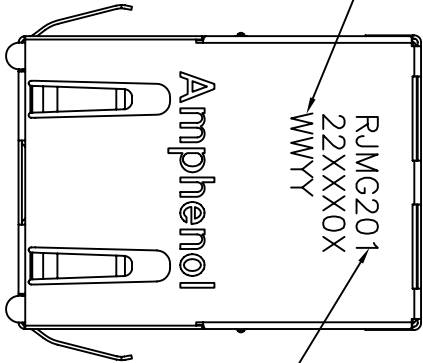
REVISIONS

SYM	ECN No.	DESCRIPTION	DATE	APPROVED
A		RELEASE TO PRODUCTION	02/23/2004	Arthur Huang
B		ADD CIRCUIT ADN MODIFY ELECTRICAL SPEC.	02/22/2005	John De Jong
C		Δ PIN LENGTH CHANGE	02/25/2005	John De Jong
D	ECN-057-06	CHANGE THE TERMINATION OPTIONS	03/14/2006	Joseph Hsu

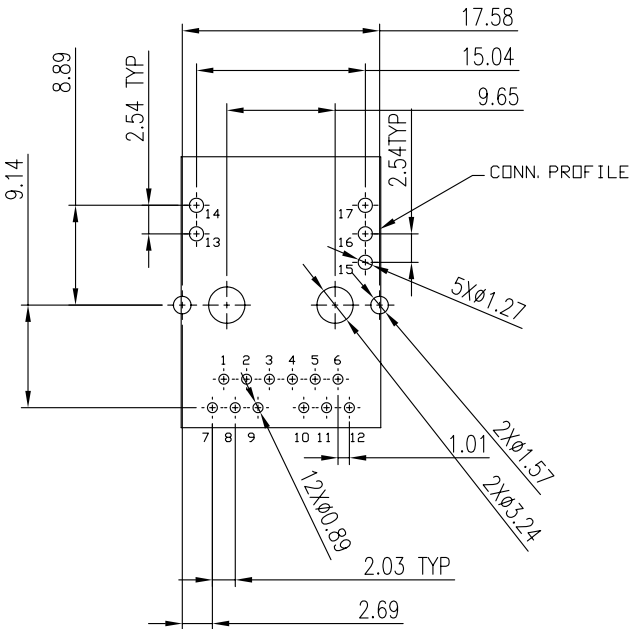
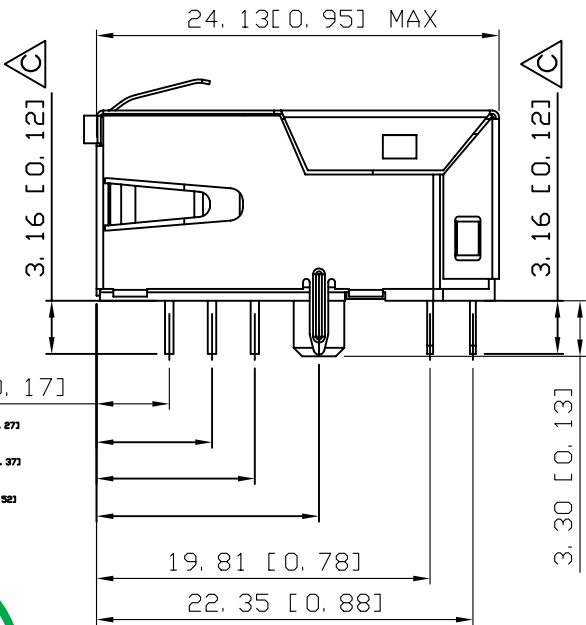
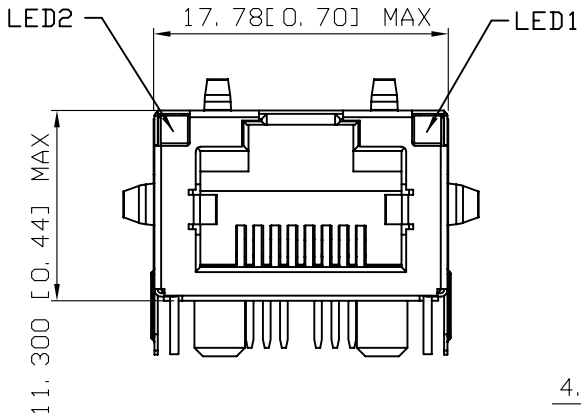
2.030 [0.08]



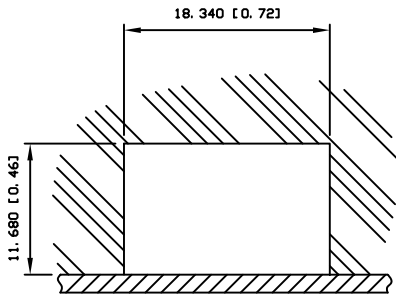
DATE CODE



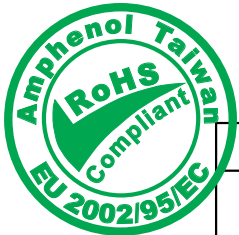
P/N



RECOMMENDED PCB LAYOUT
COMPONENT SIDE



SUGGESTION PANEL OPENING

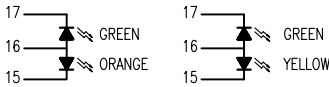
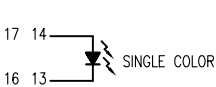


TOLERANCE m/m		APPROVALS		DATE	TITLE			Amphenol® Amphenol Corporation		
x.	±0.30	DRAWN	Lucy Lee	02/25/05	GIGABIT RJMag ULTRA LOW PROFILE					
x.x	±0.25	CHECKED	Kevin Xie	02/25/05						
x.xx	±0.15	APPROVED	Joseph Hsu	02/25/05						
x.xxx	±0.08									
ANGULAR	±1°			UNIT	MM	SIZE	PART NO.	DRAWING NO.	REV.	
UNLESS OTHERWISE SPECIFIED						A4	RJMG20122XXX0X	T363-RJMG20122XXX0X	D	

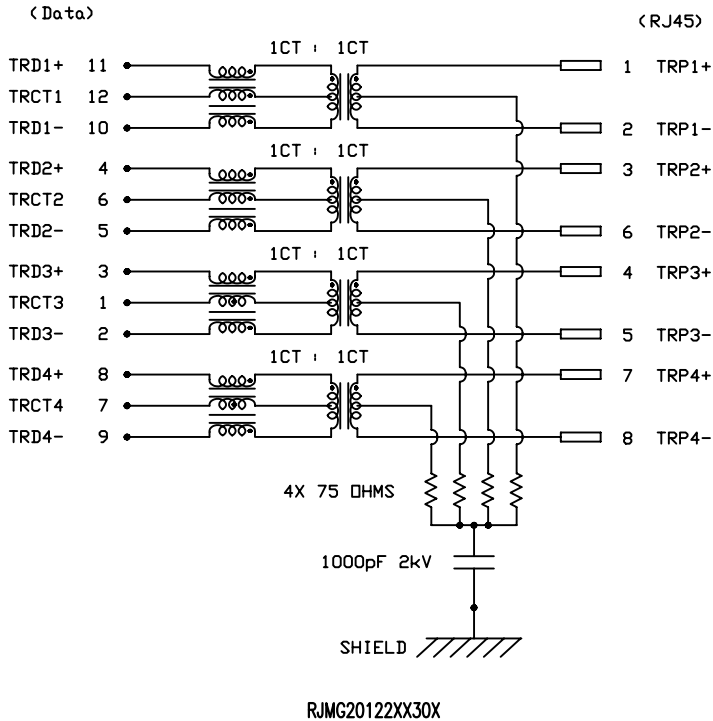
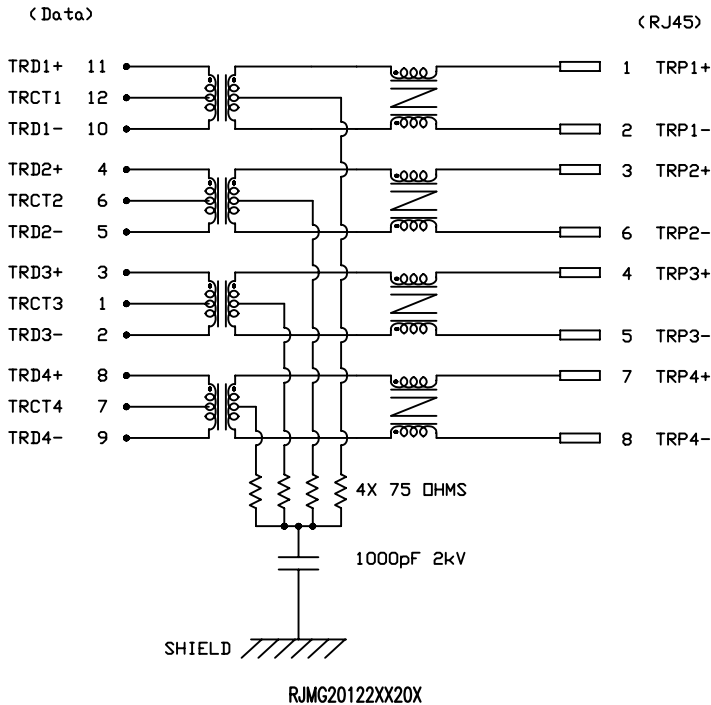
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BI-COLOR LED DETAIL (3 LEDS)



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x.xx	±0.15	APPROVED	Joseph Hsu	02/25/05					
x.xxx	±0.08					SCALE		N.A.	SHEET 2 OF 4
ANGULAR	±1°								
UNLESS OTHERWISE SPECIFIED				UNIT	SIZE	PART NO.	DRAWING NO.		REV.
				MM	A4	RJMG20122XXX0XX	T363-RJMG20122XXX0XX		D

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ELECTRICAL SPECIFICATION(@25° C)

LED PERFORMANCE

PARAMETER	SINGLE COLOUR	BICOLOUR		UNITS
	YELLOW OR GREEN	GREEN	ORANGE	
FORWARD CURRENT IF MAX	30	30		mA
REVERSE CURRENT IR MAX	10	10		uA
REVERSE VOLTAGE VR MAX	-5	-5		V
T OPERATURE TOP	-40~+85	-40~+85		℃
T SOLDERINGTURE TS	260+/-5	260+/-5		℃
POWER DISS. Pd	100	100		mW
INTENSITY Iv	40	20	25	MCD
PEAK WAVELENTH	585	565	605	nM
FORWARD VOLTAGE TYP	2.1	2.2	2.0	V
FORWARD VOLTAGE MAX	2.6	2.6	2.6	V

CONNECTOR PERFORMANCE

PARAMETER	LIMITS (MAX. OR MIN.)	FREQUENCY RANGE/ TEST CONDITIONS
INSERTION LOSS (RX/TX)	-1.0dB 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.	100KHz-100MHz
CM-DM REJECTION	-35dB MIN.	100KHz-100MHz
CROSSTALK ISOLATION (RX/TX)	-30+20 log(f/100MHz)dB MIN.	100KHz-100MHz
HIPOT (ISOLATION)	1.5kVrms MIN.	60S
OCL	350uH MIN.	100KHz 100mV 8mA
TURN RATIO	1:1±5%	



TOLERANCE m/m		APPROVALS	DATE	TITLE GIGABIT RJMag ULTRA LOW PROFILE		Amphenol® Amphenol Corporation	
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x.x	±0.25	CHECKED Kevin Xie	02/25/05				
x.xx	±0.15	APPROVED Joseph Hsu	02/25/05				
x.xxx	±0.08						
ANGULAR	±1°						
UNLESS OTHERWISE SPECIFIED			UNIT MM	SIZE A4	PART NO. RJMG20122XXX0XX	DRAWING NO. T363-RJMG20122XXX0XX	REV. D

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MATERIALS:

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

CONTACTS (RJMAG): PHOSPHOR BRONZE
PLATING: SELECTIVE GOLD OVER MATING SURFACES.

METAL SHIELD: COPPER ALLOY T=0.2MM, NICKEL PLATED 50u" MIN
PRE-SOLDERING ON THE PCB GROUND TAB

MECHANICAL FEATURES:

SOLDERABILITY: MIL-STD-202,METHOD 208.

MATING/UNMATING FORCE:

USB PORT

INSERTION 3.5Kg MAX
REMOVAL 1.0Kg MIN

RJ PORT

MATING/UNMATING 2.1Kg MAX

RETENTION FORCE FOR RJ PORT: 5Kg FOR 1 MINUTE

PACKAGING: MEET FCC PART 68.500 REQUIREMENTS.

RJMG20122 X X X 0 X X

COMPLINACE CODE

BLANK: NONE-RoHS

R: RoHS Compliant

GOLD PLATING THICKNESS
ON MATING SURFACE

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

LED1 (RIGHT SIDE)

0: Without LED
1: Green
2: Yellow
8: Bi-color Green/Orange(3 leds)
9: Bi-color Green/Yellow(3 leds)

LED2 (LEFT SIDE) SEE LED1 OPTIONS

TERMINATION OPTIONS

2: 4*75R,1000pf 8cores tansformer RJ pin side
3: 4*75R,1000pf 8cores tansformer data pin side

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

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



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