

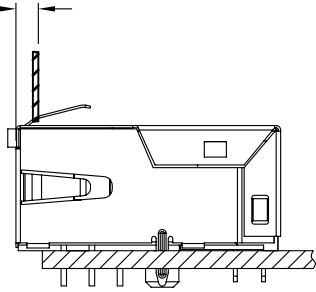
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CUSTOMER DRAWING

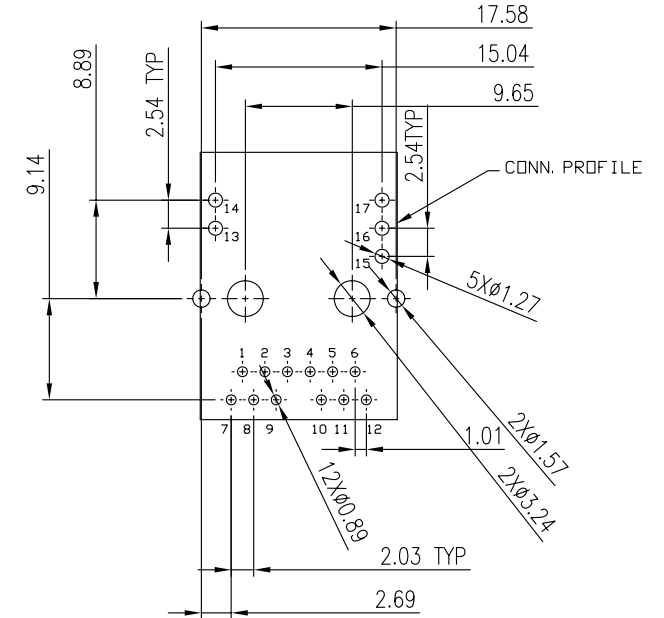
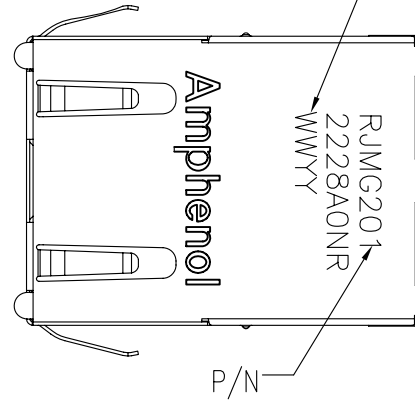
REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	APPROVED
AX1		RELEASE TO PRODUCTION	04/23/2008	Greg L.



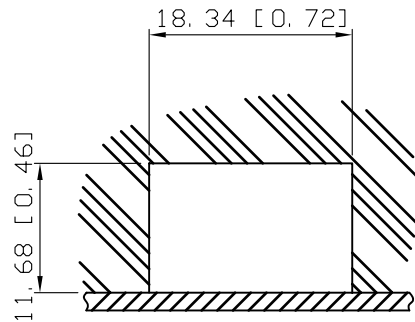
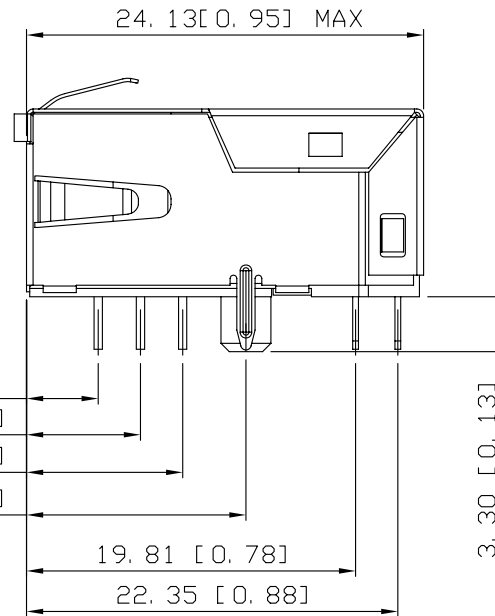
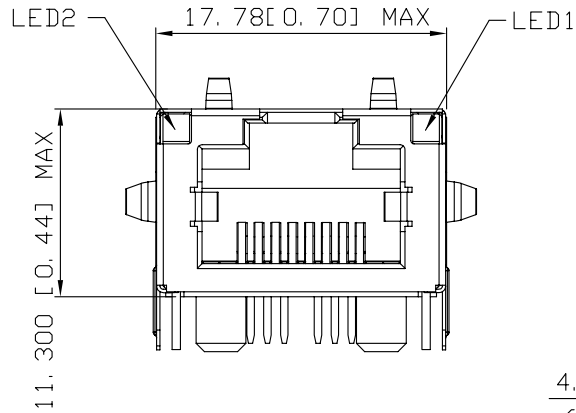
2.03 [0.08]



DATE CODE



RECOMMENDED PCB LAYOUT
COMPONENT SIDE



SUGGESTION PANEL OPENING

TOLERANCE m/m	APPROVALS	DATE	TITLE		Amphenol® Amphenol Corporation	
x. ±0.30	DRAWN Stone Lee	04/23/08	GIGABIT RJMag		SCALE N.A. SHEET 1 OF 3	
x.x ±0.25	CHECKED Nealson Wang	04/23/08	ULTRA LOW PROFILE		DRAWING NO. T363-RJM2012228A0NR	
x.xx ±0.15	APPROVED Greg Loudermilk	04/23/08	SIZE A4	UNIT MM	REV. AX1	
x.xxx ±0.08			PART NO. RJM2012228A0NR		REV. AX1	
ANGULAR ±1°						
UNLESS OTHERWISE SPECIFIED						

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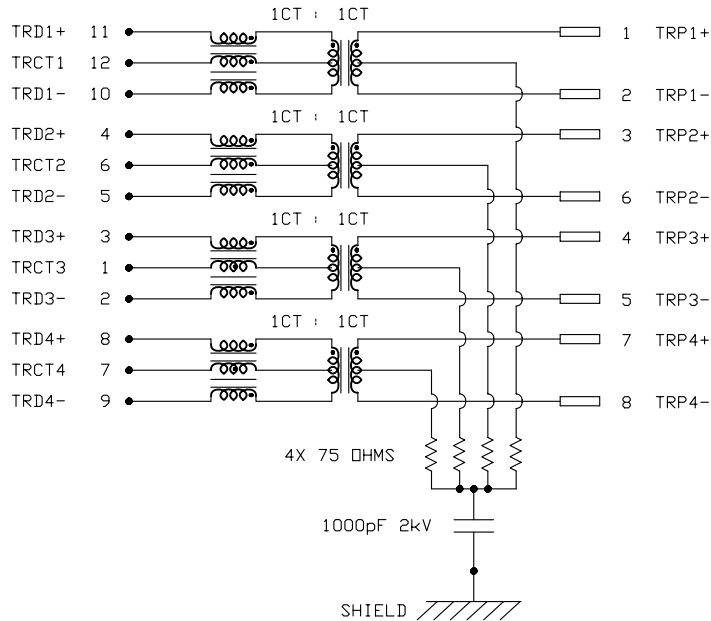
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AX1		RELEASE TO PRODUCTION	04/23/2008	Greg L.



BI-COLOR LED DETAIL (3 LEADS)

ELECTRICAL SPECIFICATION(@25° C)

< Data > (RJ45)



RJMG20122XX30X

LED PERFORMANCE

PARAMETER	SINGLE COLOUR		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 WAVELENGTH	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%	

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x. ±0.30	DRAWN Stone Lee	04/23/08	GIGABIT RJMag	SCALE N.A. SHEET 2 OF 3	
x.x ±0.25	CHECKED Nealson Wang	04/23/08	ULTRA LOW PROFILE		
x.xx ±0.15	APPROVED Greg Loudermilk	04/23/08			
x.xxx ±0.08					
ANGULAR ±1°				SIZE A4	PART NO. RJMG2012228A0NR
UNLESS OTHERWISE SPECIFIED		UNIT MM		DRAWING NO. T363-RJMG2012228A0NR	REV. AX1

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CUSTOMER DRAWING

REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	APPROVED
AX1		RELEASE TO PRODUCTION	04/23/2008	Greg L.

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: 2.1Kg MAX
 RETENTION FORCE FOR RJ PORT: 5Kg FOR 1 MINUTE
 PACKAGING: MEET FCC PART 68.500 REQUIREMENTS.



RJMG20122 X X A 0 X X

COMPLINACE CODE

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
- 2: Yellow
- 8: Bi-color Green/Orange(3 leds)

LED2 (LEFT SIDE) SEE LED1 OPTIONS

TERMINATION OPTIONS

A: 4*75R,1000pf 8cores transformer data pin side and with GND wire

ENVIRONMENTAL

OPERATING TEMPERATURE:0°C TO +70°C.
 STORAGE TEMPERATURE:-40°C TO +105°C.
 WAVE SOLDERING PEAK TEMPERATURE: 260° MAX 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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x.xx ±0.15	APPROVED Greg Loudermilk	04/23/08			
x.xxx ±0.08					
ANGULAR ±1°					
UNLESS OTHERWISE SPECIFIED		UNIT MM	SIZE A4	PART NO. RJMG2012228A0NR	DRAWING NO. T363-RJMG2012228A0NR
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