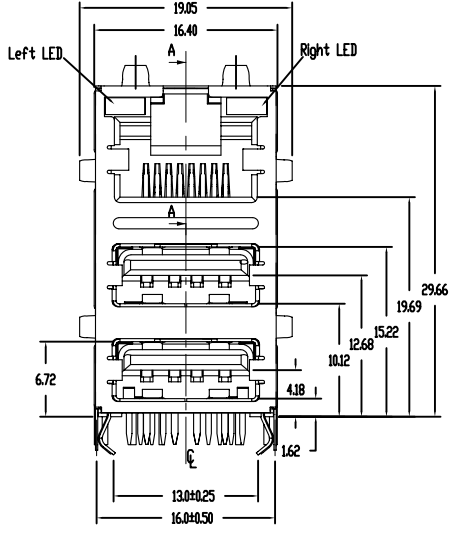
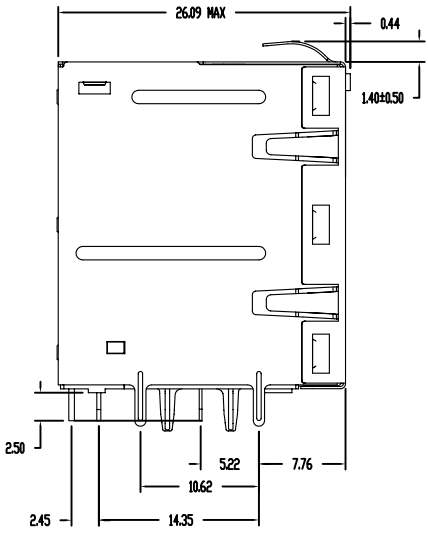
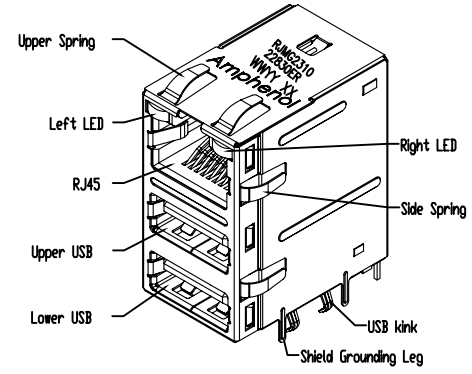
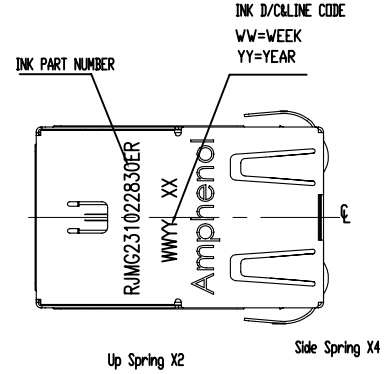


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# CUSTOMER DRAWING

REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	APPROVED
B		RELEASE FOR IR PROCESS	Nov.12.08	Greg.L

## ORIGINAL



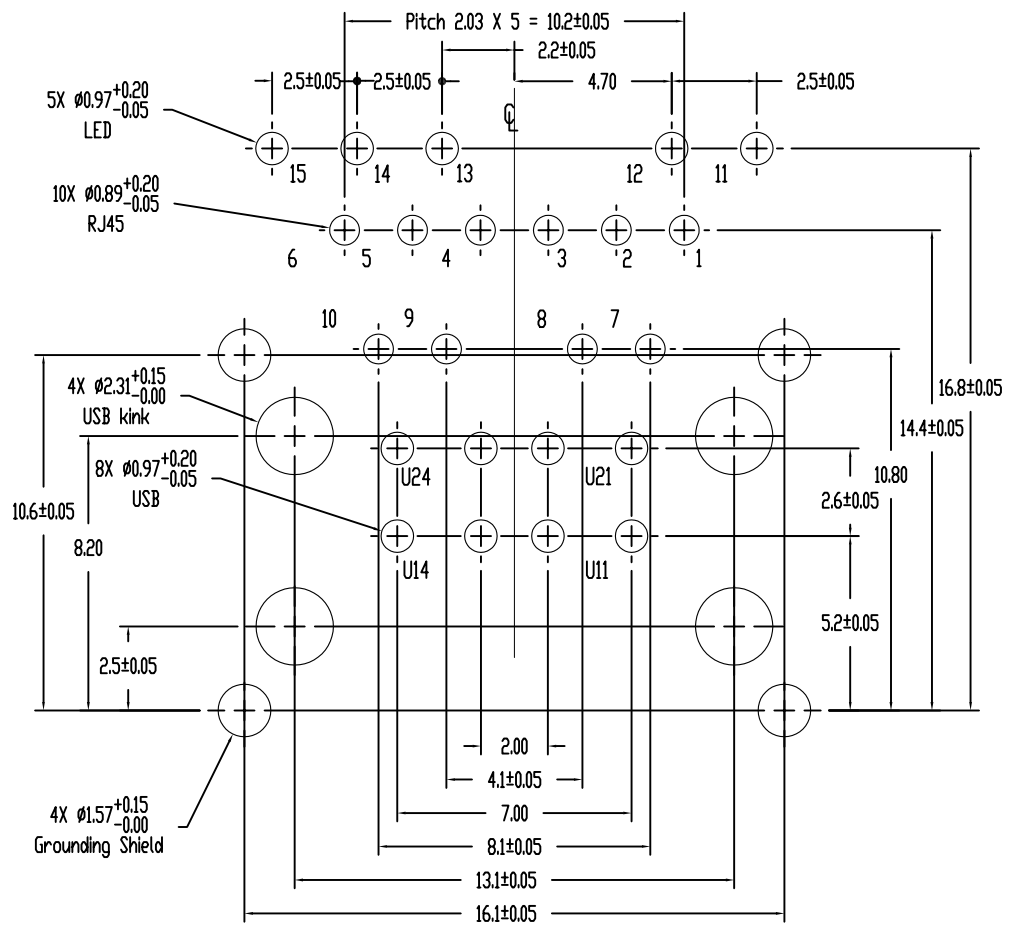
TOLERANCE m/m		APPROVALS		DATE	TITLE RJmag 1000 Base-T RJ Over Dual USB	 <b>Amphenol Corporation</b>							
x.	±0.30	DRAWN	Stone Lee	Nov.12.2007									
x.x	±0.25	CHECKED	Jason Zhan	Nov.12.2007									
x.xxx	±0.08	APPROVED	Greg.L	Nov.12.2007									
ANGULAR	±2°					SCALE	N.A.	SHEET	1 OF 4				
UNLESS OTHERWISE SPECIFIED				UNIT	MM	SIZE	A3	PART NO.	RJM231022830ER	DRAWING NO.	RJM231022830ER	REV.	B

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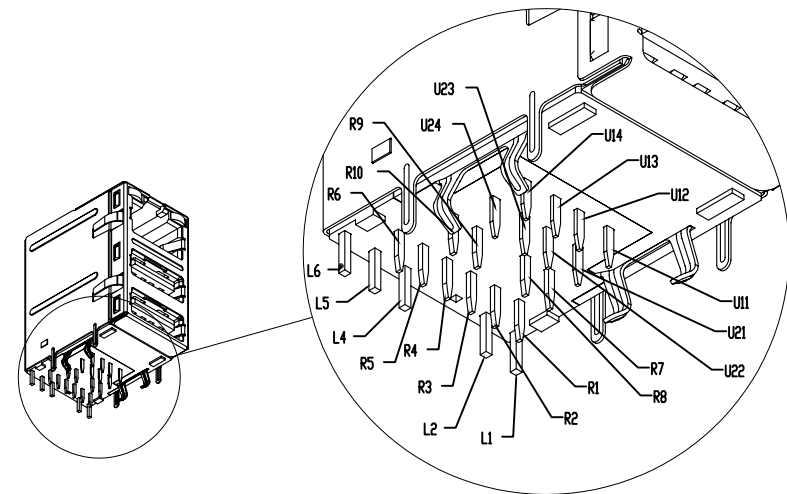
# CUSTOMER DRAWING

## ORIGINAL

REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	APPROVED
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Recommended PCB layout  
component side view  
PCB thickness : 1.6mm  
The tolerance are ± 0.05mm



TOLERANCE m/m		APPROVALS		DATE	TITLE RJmag 1000 Base-T RJ Over Dual USB	 Amphenol Corporation	
x.	±0.30	DRAWN	Stone Lee	Nov.12.2007			
x.x	±0.25	CHECKED	Jason Zhan	Nov.12.2007			
x.xx	±0.15	APPROVED	Greg.L	Nov.12.2007			
x.xxx	±0.08				SCALE	N.A.	SHEET 2 OF 4
ANGULAR	±2°				DRAWING NO.	RJMG231022830ER	
UNLESS OTHERWISE SPECIFIED				UNIT	SIZE	PART NO.	REV.
				MM	A3	RJMG231022830ER	B

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**Compliant with IEEE 802.3ab Standard**

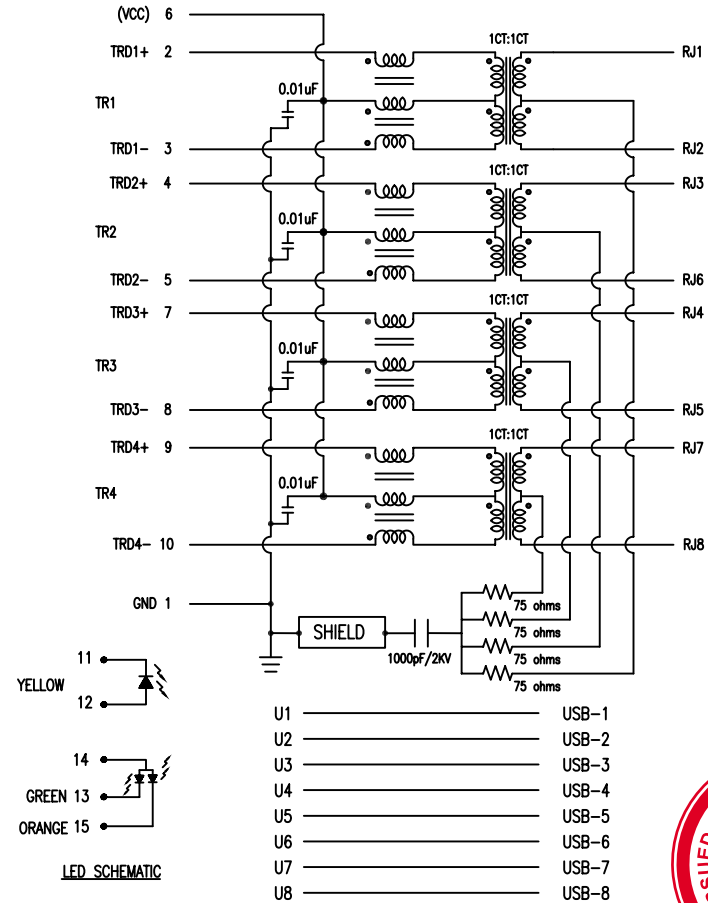
**ORIGINAL**

## CONNECTOR PERFORMANCE ELECTRICAL SPECIFICATION(@25° C)

PARAMETER	LIMITS (MAX. OR MIN.)	FREQUENCY RANGE/ TEST CONDITIONS
INSERTION LOSS	-1.2dB MAX.	0.1-125 MHz
RETURN LOSS	-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	-35dB MIN.	100KHz-100MHz
HIPOT (Withstanding)	1.5kVrms/60Hz or 2.25VDC MIN.	60S
ISOLATION Resistance	1000M ohms MIN.	500VDC 60S
OCL	350uH MIN. From 0~70 degree	100KHz 100mV 8mA
TURN RATIO	1:1±5%	

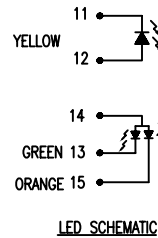


(Data) (RJ45)



## LED PERFORMANCE:

	Activity	Link	
		Green (10Mbps)	Orange (100Mbps)
Display Color	Yellow	Green	Orange
Wavelength	590nm	565nm	605nm
Forward Current	30mA	30mA	30mA
Reverse Current	10uA	10uA	10uA
Forward Volt.Max	2.6VDC	2.6VDC	2.6VDC



TOLERANCE m/m	APPROVALS	DATE	TITLE	Amphenol® Amphenol Corporation	
x. ±0.30	DRAWN Stone Lee	Nov.12.2007	RJmag 1000 Base-T	SCALE N.A.	SHEET 3 OF 4
x.x ±0.25	CHECKED Jason Zhan	Nov.12.2007	RJ Over Dual USB	DRAWING NO.	REV. B
x.xx ±0.15	APPROVED Greg.L	Nov.12.2007		RJMG231022830ER	
x.xxx ±0.08					
ANGULAR ±1°					
UNLESS OTHERWISE SPECIFIED	UNIT MM	SIZE A3	PART NO. RJMG231022830ER	DRAWING NO. RJMG231022830ER	REV. B

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## ORIGINAL



### MATERIALS:

#### HOUSING DIELECTRIC MATERIAL:

POLYMER TYPE: HIGH TEMPERATURE GLASS-REINFORCED THERMOPLASTIC,  
 COLOR: BLACK  
 UL FLAMMABILITY RATING : UL 94V-0

#### CONTACTS (RJMAG):

BASE METAL ALLOY: PHOSPHOR BRONZE  
 PLATING: 30u 'Au Min OVER 50u 'Ni Min UNDERPLATING  
 100u 'Tin Min OVER 50u ' Ni MIN ON TAILS.

#### SHIELD:

STAINLESS STEEL , SUS304-1/2H. T=0.2MM , NO PLATING

### MECHANICAL FEATURES:

SOLDERABILITY: MIL-STD-202,METHOD 208.

#### MATING/UNMATING FORCE:

#### USB PORT :

COMPLY WITH USB2.0 FOR ALL ELECTRICAL AND MECHANICAL CHARACTERISTICS  
 INSERTION FORCE 3.5Kg MAX, PER USB2.0 SPEC  
 WITHDRAWAL FORCE 1.0Kg MIN , PER USB2.0 SPEC  
 DURABILITY: 5000 CYCLES MIN

#### RJ PORT :

MATING: 2.0Kg MAX , PER EIA-364-13B  
 UNMATING FORCE: 2.0Kg MAX , PER EIA-364-13B  
 PACKAGING: 40PCS/PLASTIC TRAY,4TRAYS/BOX  
 COMPLY WITH FCC PART 68 SUBPART F.  
 DURABILITY: 5000 CYCLES MIN

### Environmental

OPERATING TEMPERATURE:-40°C TO +85°C.  
 STORAGE TEMPERATURE:-40°C TO +100°C.  
 WAVE SOLDERING TEMPERATURE: 260°C FOR 10 SECONDS MAX  
 IR REFLOW TEMPERATURE: 245°C FOR 15 SECONDS MAX  
 ALTITUDE OPERATING RANGE: SEA LEVEL TO 3000m  
 HUMIDITY: NO DAMAGE OR CHANGE THAT AFFECTS THE FUNCTION OR LOOKS OF MATED CONNECTORS  
 THERMAL SHOCK: SUBJECT MATED CONNECTORS TO 10 CYCLES BETWEEN -55°C AND 85°C,EVERY STEP TEMPERATURE 0.5h MIN  
 MECHANICAL SHOCK: THREE SHOCKS IN EACH DIRECTION SHALL BE APPLIED ALONG THREE MUTUALLY PERPENDICULAR AXES OF THE TEST SPECIMEN (18 SHOCKS)

#### REMARKED:

RJMG-2310 - 2 2- 8 3- 0 ER

LED1 (RIGHT SIDE)

2- Yellow

R: Rohs Compliant;

plating and packaging

E: Gold 30u Inches, Stainless steel shield, Tray

0: Standard;

3: 4 X 75R , 1000pF , 8 cores

LED2 (LEFT SIDE)

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



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x.x ±0.25	CHECKED Jason Zhan	Nov.12.2007				
x.xx ±0.15	APPROVED Greg.L	Nov.12.2007				
x.xxx ±0.08			UNIT	SIZE	PART NO.	DRAWING NO.
ANGULAR ±2°			MM	A3	RJMG231022830ER	RJMG231022830ER
UNLESS OTHERWISE SPECIFIED						REV. B