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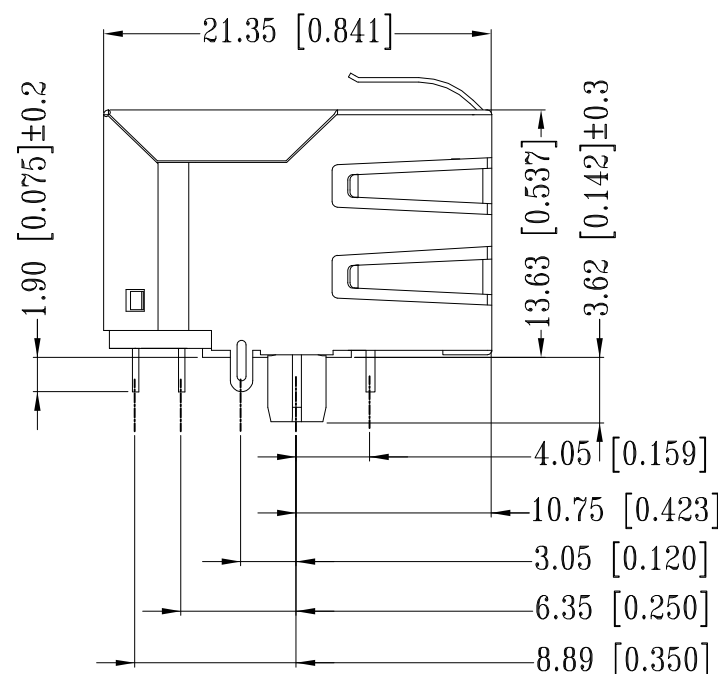
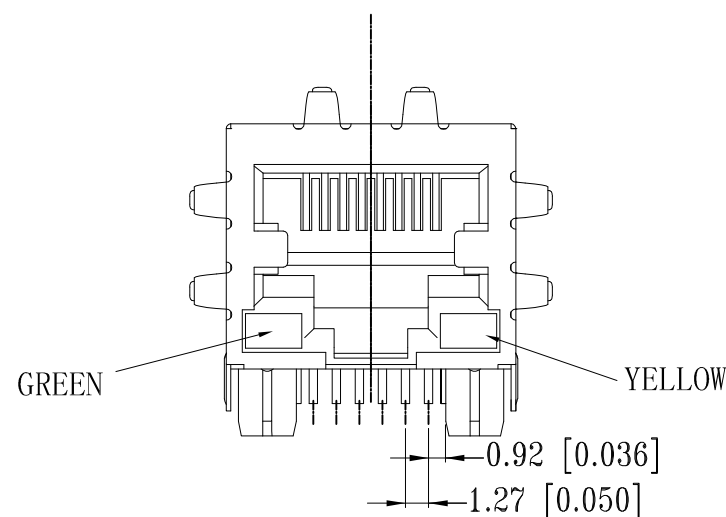
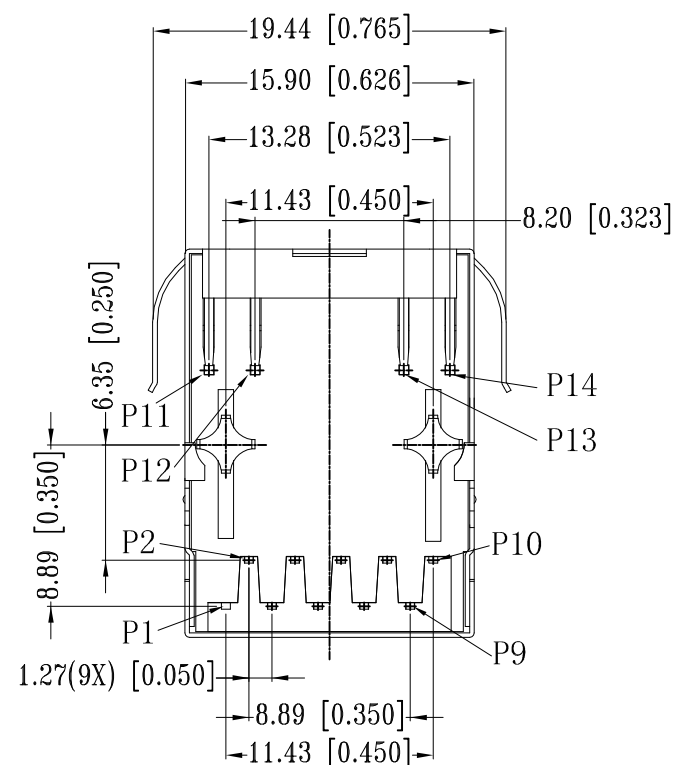
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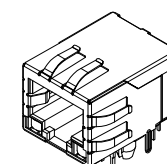
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## REVISIONS

| P | LTR | DESCRIPTION | DATE      | DWN | APVD |
|---|-----|-------------|-----------|-----|------|
|   | A1  | NEW DRAWING | 28DEC2016 | GCM | MSZ  |



- 1 CONNECTOR MATERIAL:  
HOUSING: LCP BLACK UL94 V-0  
INSERT: LCP BLACK UL94 V-0  
SHIELD: BRASS  
SHIELD PLATING: NICKEL  
CONTACT: COPPER ALLOY  
CONTACT PLATING: SELECTIVE GOLD, MIN. 0.76µm (30µinch) IN CONTACT AREA  
OVER MIN. 1.27µm (50µinch) NICKEL  
SOLDER PIN PLATING: 3.05µm (120µinch) TIN OVER 1.02µm (40µinch) NICKEL OVER ALL  
SHIELDING PIN PLATING: NICKEL
- 2 PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED SEE ELECTRICAL CIRCUIT DIAGRAM FOR OMITTED PINS
- 3 RJ45 CAVITIES CONFORM TO FCC RULES AND REGULATION PART 68
- 4 THE PART IS RECOMMENDED FOR REFLOW SOLDERING PROCESS PEAK  
SOLDERING: TEMPERATURE MAX. +260° C, MAX. 10s
- 5 OPERATING TEMPERATURE: T = -40° C TO +85° C
- 6 STORAGE TEMPERATURE: T = -40° C TO +85° C
- 7 UNLESS OTHERWISE SPECIFIED, SEE TABLE FOR ALL DIMENSIONS TOLERANCES
- 8 JACK CONFIGURATION: 1 x 1  
TAB DIRECTION: DOWN
- 9 PACKAGING: TRAY ACCORDING TO PACKAGING SPECIFICATION 107-18116



1:1



| TABLE OF TOLERANCE (mm) |           |
|-------------------------|-----------|
| RANGE                   | TOLERANCE |
| 0-10                    | ±0.15     |
| >10-40                  | ±0.25     |
| >40-70                  | ±0.30     |
| >70                     | ±0.40     |

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DWN 28OCT2016

GANESH C M

CHK 27AUG2016

FRANZ MUELLER

APVD 28OCT2016

MARTIN SZELAG

PRODUCT SPEC

108-94552

APPLICATION SPEC

114-94447

WEIGHT

NAME



TE Connectivity

RJ45 JACK INT.MAG. 1Gb LED 1x1

SIZE

A3

CAGE CODE

00779

DRAWING NO

C-6-2301994-0

RESTRICTED TO

-

CUSTOMER DRAWING

SCALE 3:1

SHEET 1 OF 3

REV A1

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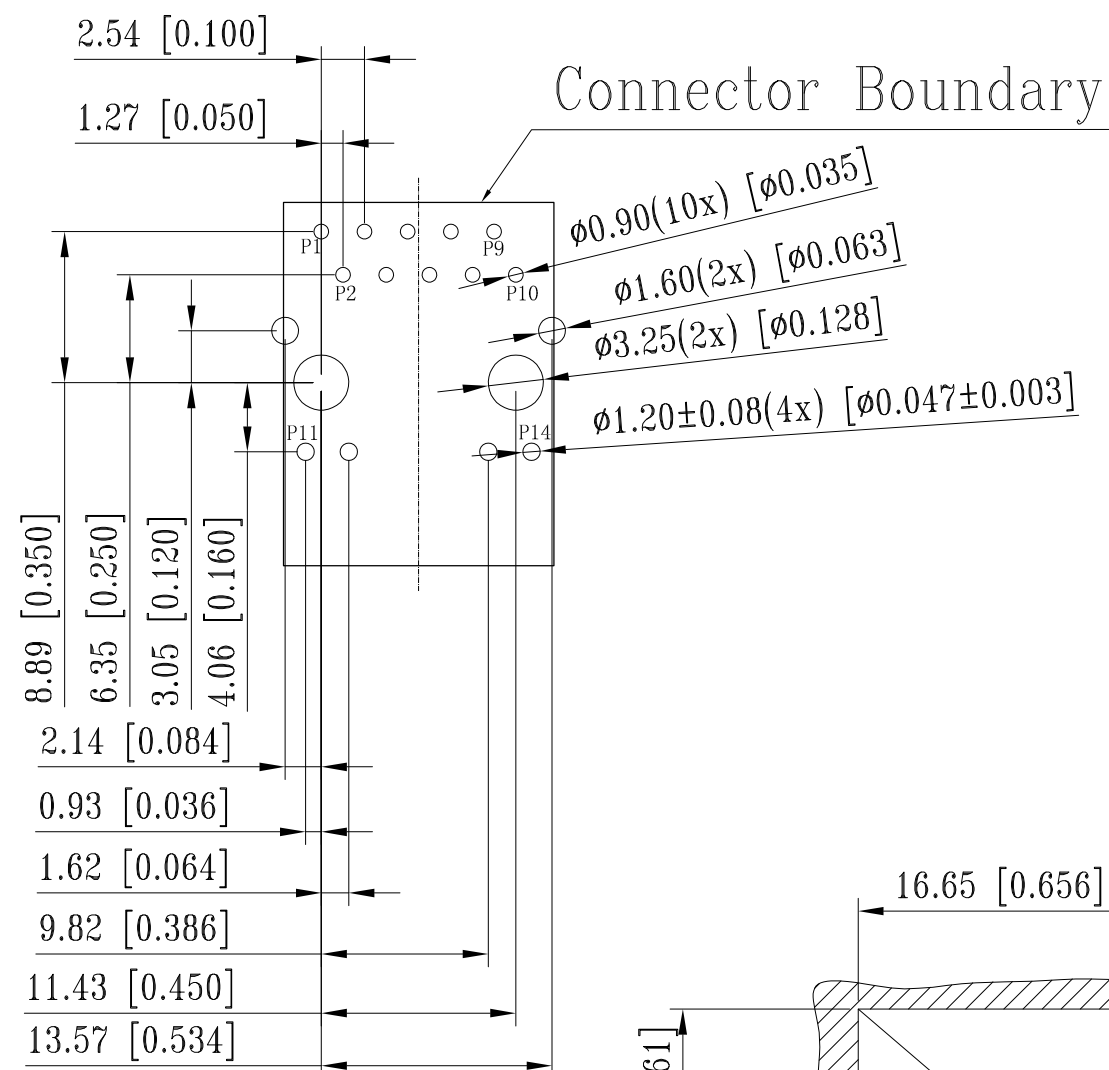
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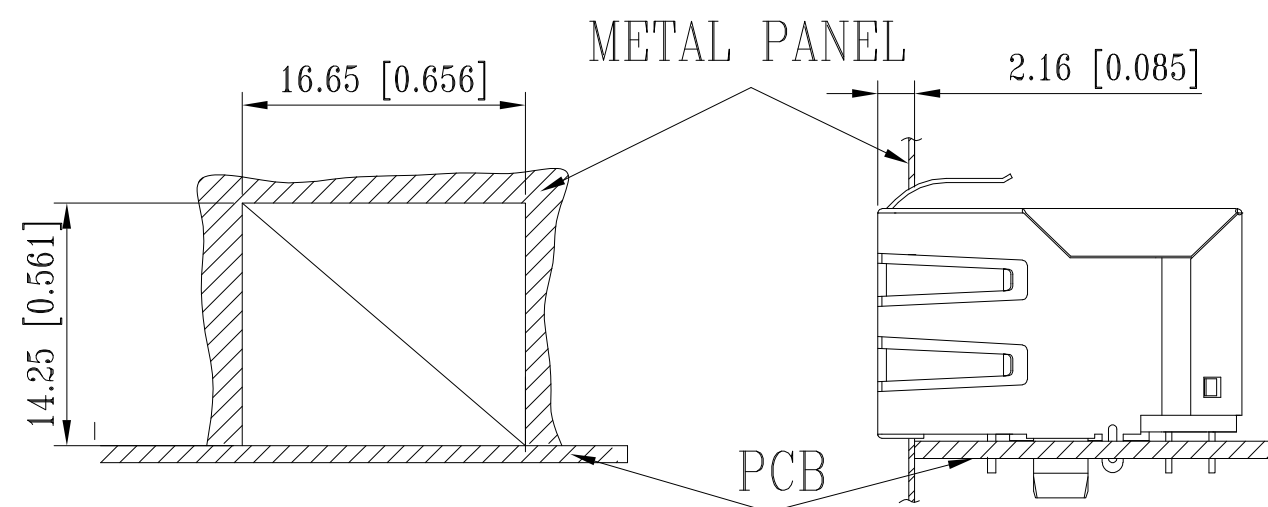
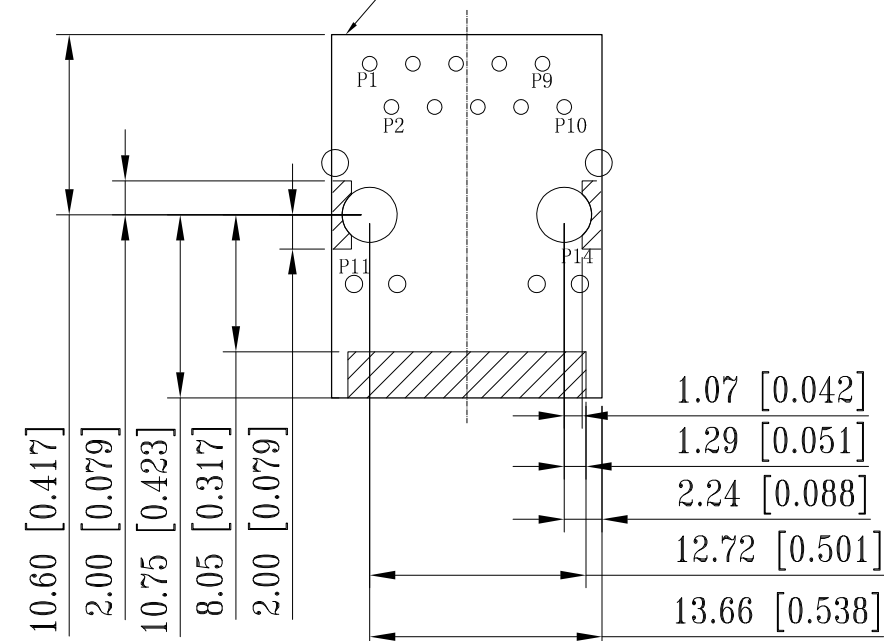
## REVISIONS

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|---|-----|-------------|------|-----|------|
|   | -   | SEE SHEET 1 | -    | -   | -    |

## SUGGESTED PCB LAYOUT



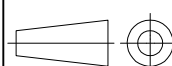
## Connector Boundary



UNIT: mm / inch  
TOLERANCES:  $\pm 0.10$  / 0.004

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DIMENSIONS:  
mm [INCHES]



TOLERANCES UNLESS  
OTHERWISE SPECIFIED:

0 PLC  $\pm -$   
1 PLC  $\pm -$   
2 PLC  $\pm -$   
3 PLC  $\pm -$   
4 PLC  $\pm -$   
ANGLES  $\pm -$



MATERIAL



FINISH



DWN 27AUG2016

GANESH C M

CHK 27AUG2016

FRANZ MUELLER

APVD 27AUG2016

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SCALE 3:1

SHEET 2 OF 3

REV A1

4

3

2

1

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ELECTRICAL CIRCUIT DIAGRAM

P10

CAP 1000pF/2kV

75Ω

75Ω

75Ω

75Ω

P9

P8

P6

P5

P7

P4

P3

P2

P1

1CT:1CT

1CT:1CT

1CT:1CT

1CT:1CT

1CT:1CT

1CT:1CT

1CT:1CT

1CT:1CT

J8

J7

J5

J4

J6

J3

J2

J1

P11

P12

P13

P14

G

Y

| Pin | Green |     | Yellow |
|-----|-------|-----|--------|
| P11 | +     | P13 | +      |
| P12 | –     | P14 | –      |

1.0 Turn Ratio @100kHz:

(P2~P3):(J1~J2)

= 1:1±2%

(P4~P7):(J3~J6)

= 1:1±2%

(P5~P6):(J4~J5)

= 1:1±2%

(P8~P9):(J7~J8)

= 1:1±2%

2.0 Primary Inductance:

350μH MIN. @100kHz, 0.1V 8mA DC BIAS

3.0 DC Resistance:

1.2 OHMS MAX.

4.0 Insertion Loss:

1–100MHz

–1.0dB MAX.

100–125MHz

–1.2dB MAX.

5.0 Return Loss:

1–40MHz

–16dB MIN.

40–60MHz

–12dB MIN.

60–80MHz

–10dB MIN.

80–100MHz

–8dB MIN.

6.0 CROSS TALK:

1–100MHz

–30dB MIN.

7.0 COMMON TO COMMON MODE ATTENUATION:

1–100MHz

–30dB MIN.

8.0 Isolation:

PHY Side to Line Side : 2250VDC

6-2301994-0

WWYY-xxxx

CONTROL CODE

DATE CODE

"0213"

YY-YEAR

WW-WEEK

FCC

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DIMENSIONS:

mm [INCHES]

MATERIAL

1

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC

± –

1 PLC

± –

2 PLC

± –

3 PLC

± –

4 PLC

± –

ANGLES

± –

FINISH

1

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(1/15)