

4

3

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1

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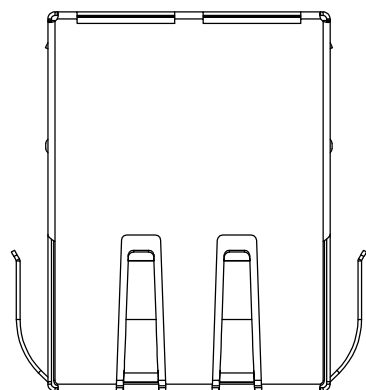
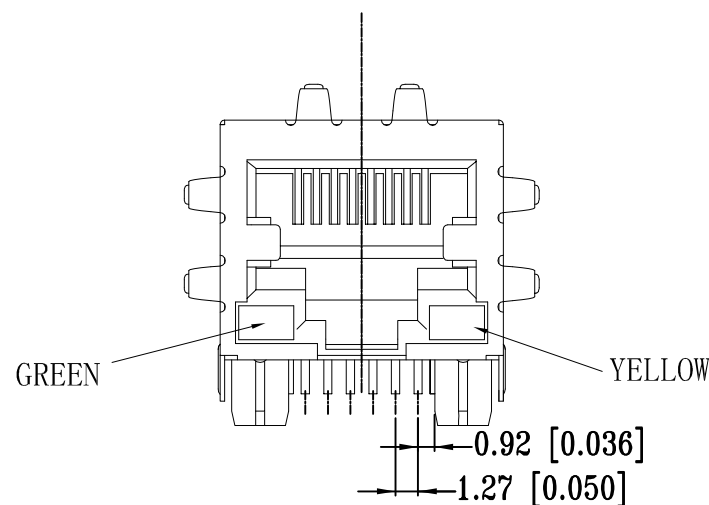
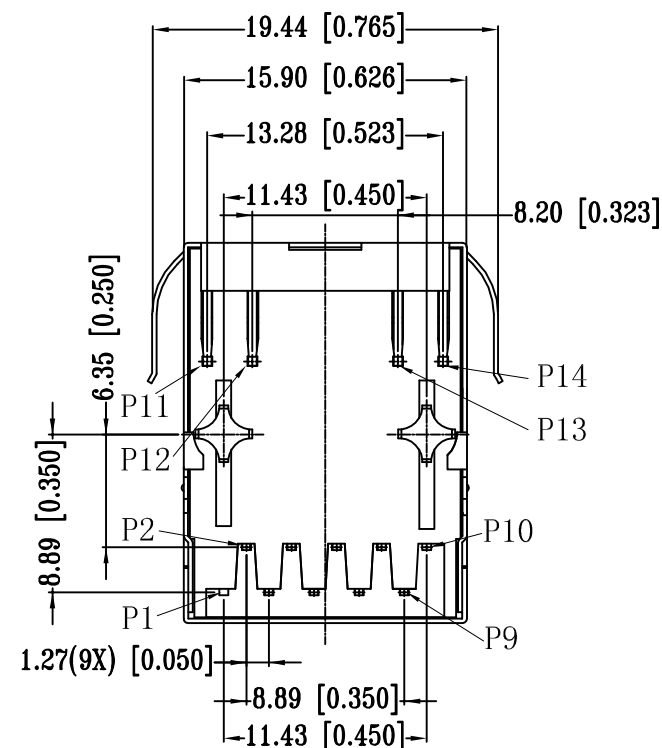
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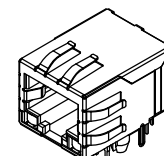
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REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	B2	REV. PER PCN E-17-002286	18AUG2017	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: REEL (T+R) ACCORDING TO PACKAGING SPECIFICATION 107-18116



1:1

⑦	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

CHK GANESH C M

27AUG2016

FRANZ MUELLER

APVD 28OCT2016

MARTIN SZELAG

PRODUCT SPEC

108-94552

APPLICATION SPEC

114-94447

WEIGHT

CUSTOMER DRAWING



TE Connectivity

NAME RJ45 JACK INT.MAG. 1Gb LED 1x1

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A3	00779	1-2301994-0	—

SCALE	SHEET	REV
3:1	1 of 3	B2

4

3

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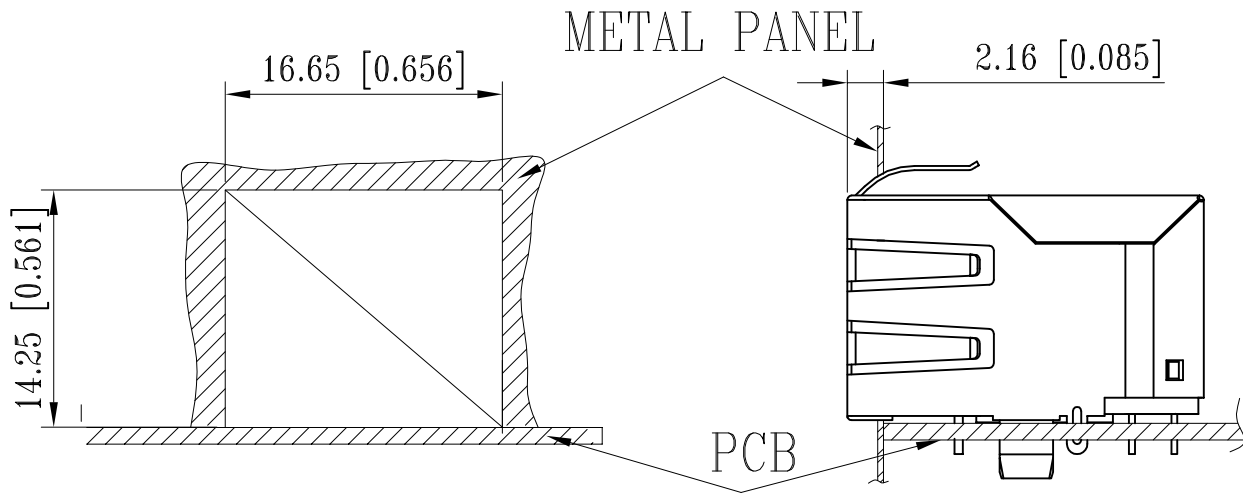
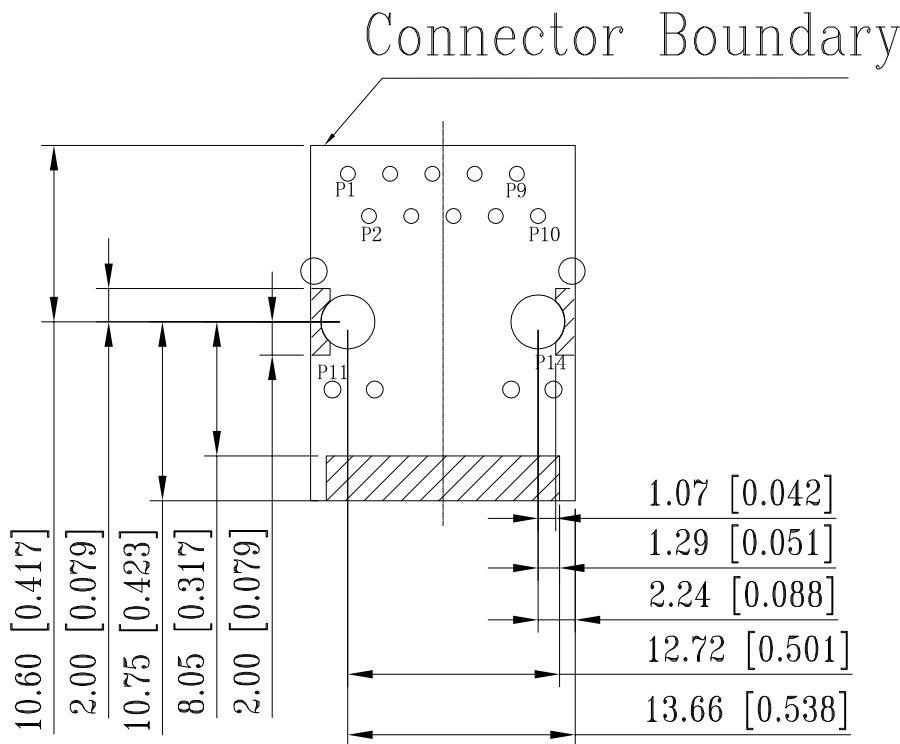
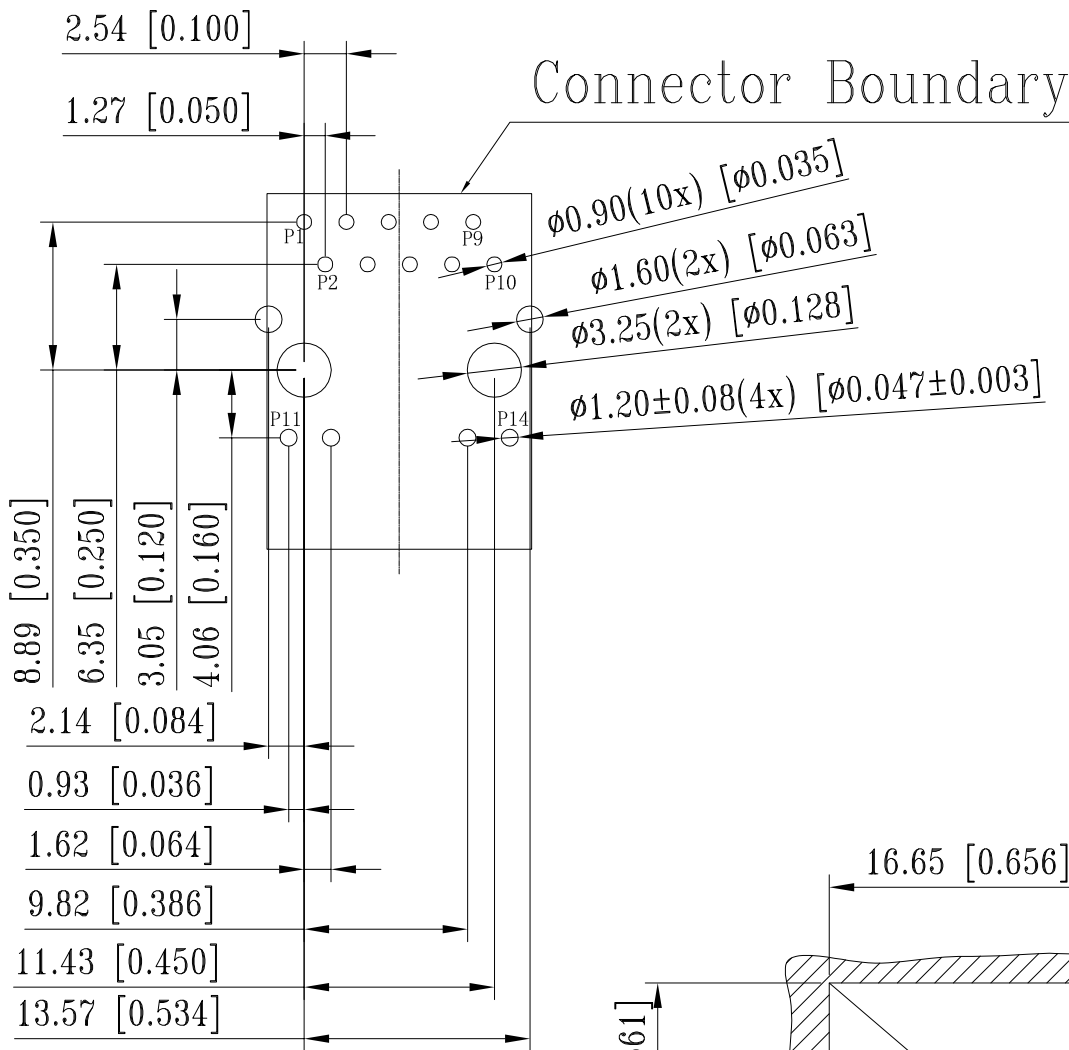
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REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

SUGGESTED PCB LAYOUT



UNIT: mm / inch
TOLERANCES: ± 0.10 / 0.004

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN GANESH C M 27AUG2016	TE Connectivity		
		CHK FRANZ MUELLER 27AUG2016			
		APVD MARTIN SZELAG 27AUG2016	NAME RJ45 JACK INT.MAG. 1Gb LED 1x1		
DIMENSIONS: mm [INCHES]		PRODUCT SPEC 108-94552			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPLICATION SPEC 114-94447			
MATERIAL		WEIGHT	SIZE A3	CAGE CODE 00779	DRAWING NO C-1-2301994-0
CUSTOMER DRAWING		SCALE 3:1	SHEET 2 of 3	RESTRICTED TO REV B2	

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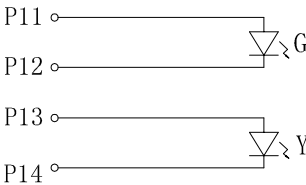
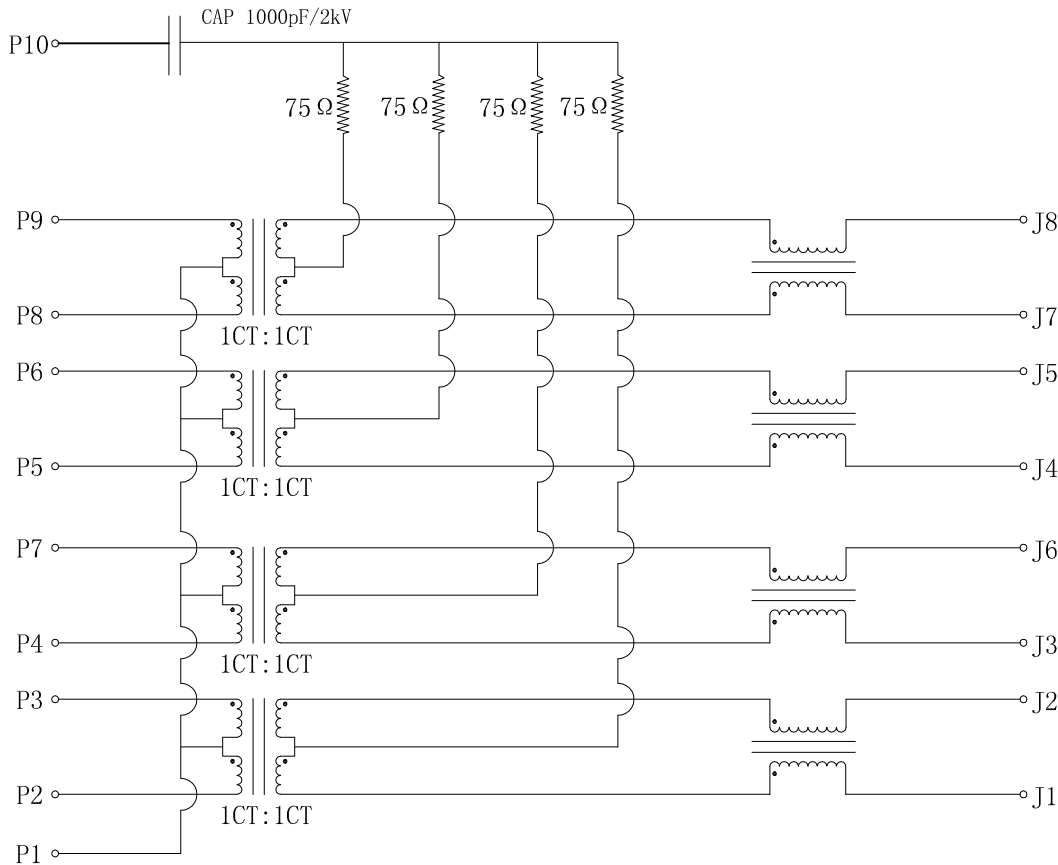
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REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

ELECTRICAL CIRCUIT DIAGRAM



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

1-2301994-0
WWYY-xxxx



FCC

CONTROL CODE

DATE CODE

"0213"

YY-YEAR

WW-WEEK

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 27AUG2016 GANESH C M	TE Connectivity		
DIMENSIONS: mm [INCHES]		CHK 27AUG2016 FRANZ MUELLER			
		APVD 27AUG2016 MARTIN SZELAG	NAME RJ45 JACK INT.MAG. 1Gb LED 1x1		
		PRODUCT SPEC 108-94552	-		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPLICATION SPEC 114-94447	-		
0 PLC ± - 1 PLC ± - 2 PLC ± - 3 PLC ± - 4 PLC ± - ANGLES ± -		WEIGHT	SIZE A3	CAGE CODE 00779	DRAWING NO C=1-2301994-0
MATERIAL 1		FINISH 1	RESTRICTED TO -		
CUSTOMER DRAWING			SCALE 3:1	SHEET 3 of 3	REV B2