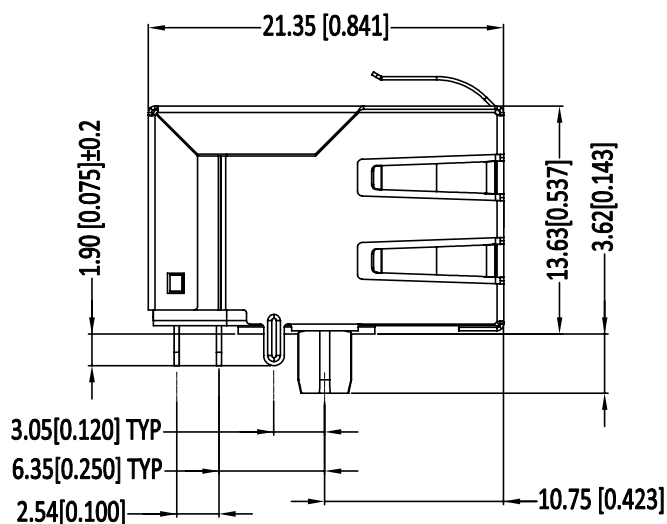
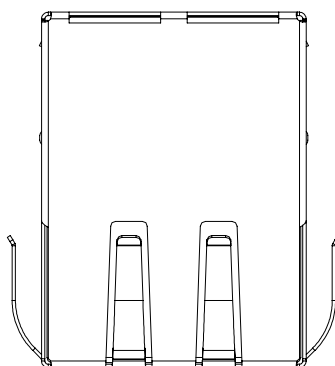
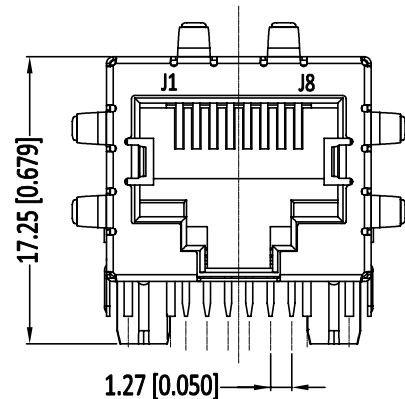
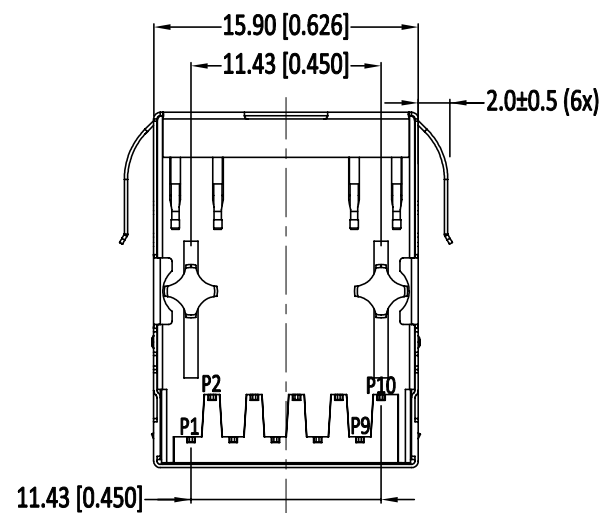
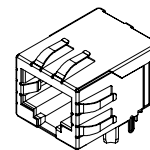


P	LTR	DESCRIPTION	DATE	DWN	APVD
	B3	RETURN LOSS SPECIFICATION CORRECTED	26MAY2021	SS	OW



- 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 1.27µm (50µinch) NICKEL
 OVER ALL
 SHIELDING PIN PLATING: NICKEL
- 2 PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED SEE ELECTRICAL CIRCUIT DIAGRAM FOR OMITTED PINS
- 3 RJ45 CAVITY DIMENSION CONFORM TO FCC 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 AUTOMATED PLACEMENT: FOR FORCE-FREE ASSEMBLY WITHOUT THE ALIGNMENT FUNCTION WIDEN TO MIN. 3.40 mm DIAMETER
- 10 PACKAGING: REEL (T+R) ACCORDING TO PACKAGING SPECIFICATION 107-18116



1:1

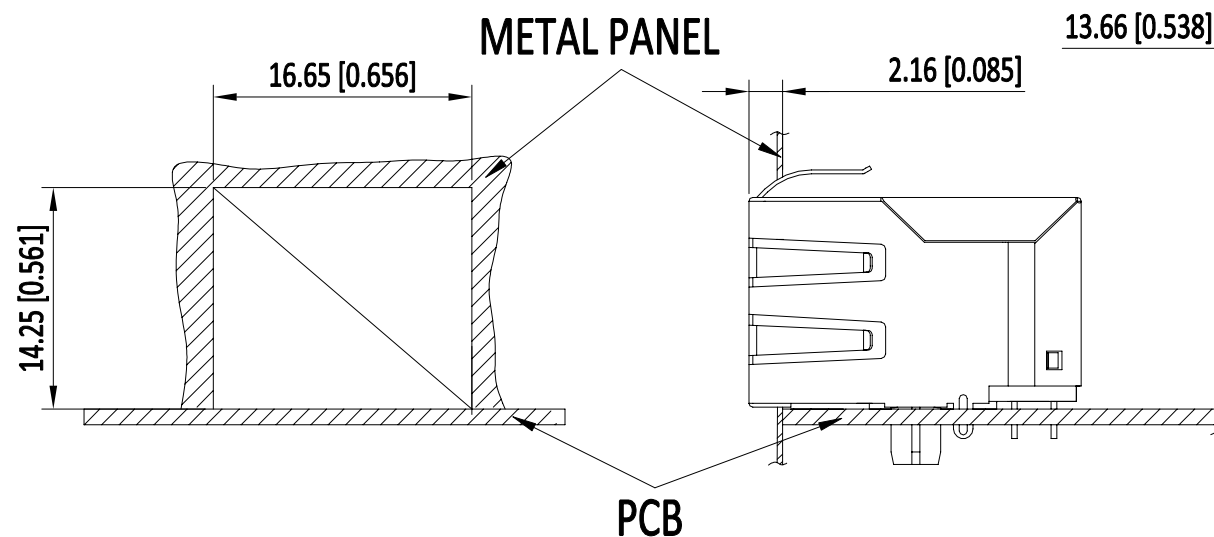
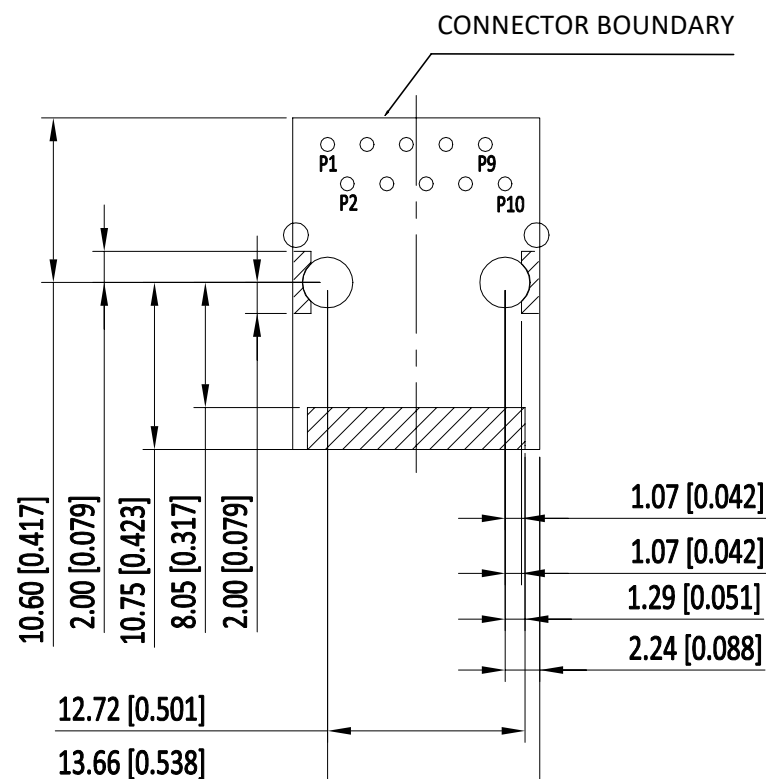
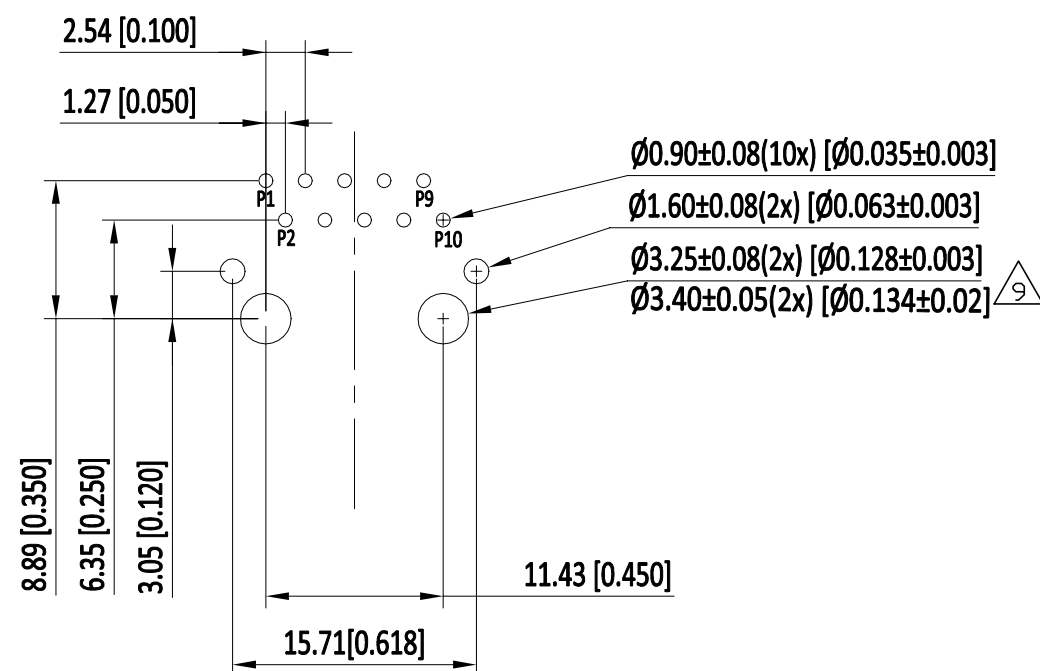
TABLE OF TOLERANCE (mm)	
RANGE	TOLERANCE
0-10	±0.15
>10-40	±0.25
>40-70	±0.30
>70	±0.40

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 27AUG2016 GANESH C M		TE Connectivity Ltd.	
		CHK 27AUG2016 FRANZ MUELLER			
DIMENSIONS: mm [INCHES]		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	
		0 PLC ± -		MARTIN SZELAG	
		1 PLC ± -		PRODUCT SPEC	
		2 PLC ± -		108-94552	
		3 PLC ± -		APPLICATION SPEC	
		4 PLC ± -		114-94447	
		ANGLES ± -		SIZE	
		FINISH		CAGE CODE	
1		1		A3 00779	
				DRAWING NO	
				C=2301994-6	
				RESTRICTED TO	
				-	
				SCALE 3:1	
				SHEET 1 of 3	
				REV B3	

REVISIONS

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

SUGGESTED PCB LAYOUT

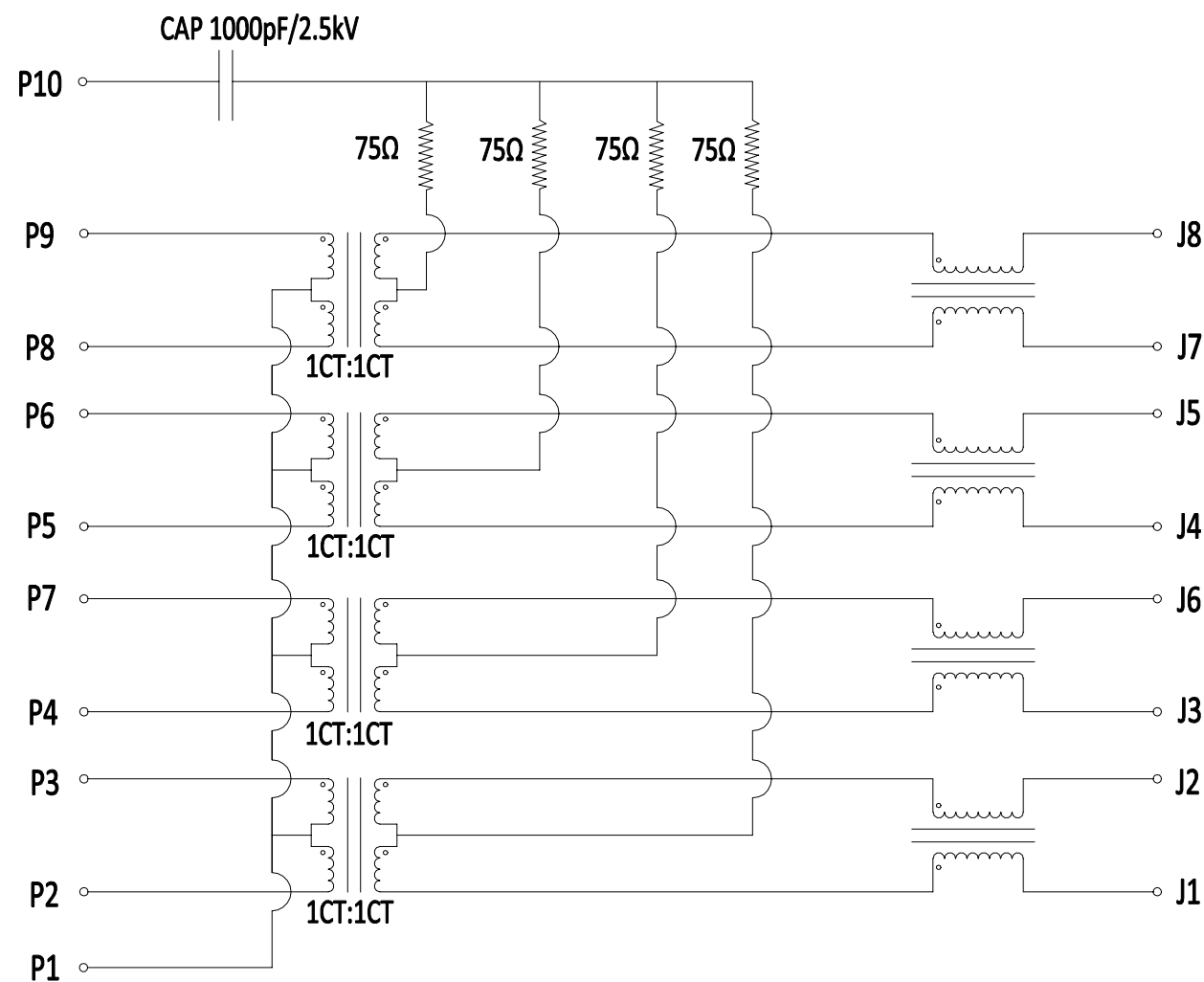


UNIT: mm / inch
 TOLERANCES: $\pm 0.10 / 0.004$
 ONLY FOR THIS VIEW

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN GANESH C M 27AUG2016	TE Connectivity Ltd.	
		CHK FRANZ MUELLER 27AUG2016		
DIMENSIONS: mm [INCHES]		APVD MARTIN SZELAG 27AUG2016	NAME RJ45 JACK INT.MAG. 1Gb 1x1	
		PRODUCT SPEC 108-94552	RESTRICTED TO	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC $\pm -$ 1 PLC $\pm -$ 2 PLC $\pm -$ 3 PLC $\pm -$ 4 PLC $\pm -$ ANGLES $\pm -$		APPLICATION SPEC 114-94447	SIZE A3	CAGE CODE 00779
MATERIAL 1		WEIGHT -	DRAWING NO C=2301994-6	SCALE 3:1
FINISH 1		CUSTOMER DRAWING	SHEET 2 of 3	REV B3

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

ELECTRICAL CIRCUIT DIAGRAM



1. 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. PRIMARY INDUCTANCE: 350μH MIN. @100kHz, 0.1V 8mA DC BIAS
3. DC RESISTANCE: 1.2 OHMS MAX.
4. INSERTION LOSS: 1-100MHz -1.0dB MAX.
 100-125MHz -1.2dB MAX.
5. RETURN LOSS: 1-40MHz -16dB MIN.
 40-100MHz -10dB+20log(f/80MHz) MIN.
6. CROSS TALK: 1-100MHz -30dB MIN.
7. COMMON TO COMMON MODE ATTENUATION: 1-100MHz -30dB MIN.
8. ISOLATION: PHY SIDE TO LINE SIDE: 2250VDC

2301994-6
 WWYY-xxxx

TE

FCC

CONTROL CODE
 DATE CODE
 "0213"
 YY-YEAR
 WW-WEEK

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN GANESH C M 27AUG2016	TE Connectivity Ltd.	
		CHK FRANZ MUELLER 27AUG2016		
		APVD MARTIN SZELAG 27AUG2016	NAME RJ45 JACK INT.MAG. 1Gb 1x1	
DIMENSIONS: mm [INCHES]		PRODUCT SPEC 108-94552		
		APPLICATION SPEC 114-94447		
MATERIAL 1		WEIGHT -	SIZE A3	CAGE CODE 00779
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± - 1 PLC ± - 2 PLC ± - 3 PLC ± - 4 PLC ± - ANGLES ± -		FINISH 1	DRAWING NO C=2301994-6	RESTRICTED TO -
		CUSTOMER DRAWING		SCALE 3:1
				SHEET 3 of 3
				REV B3

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