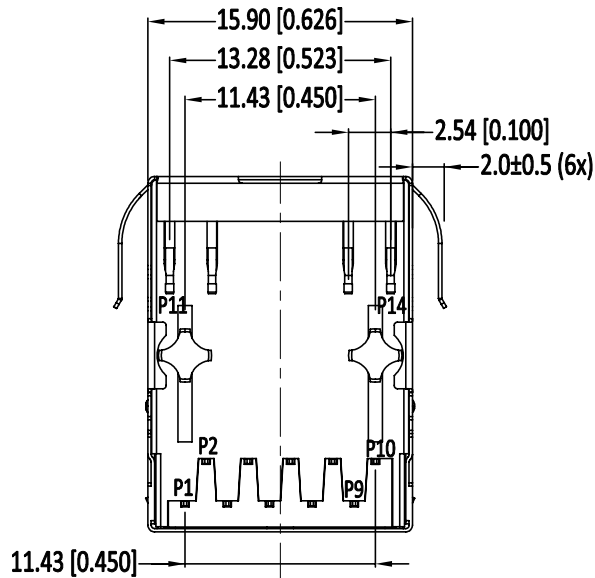


REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	A2	RETURN LOSS SPECIFICATION CORRECTED	02JUN2021	SS	OW

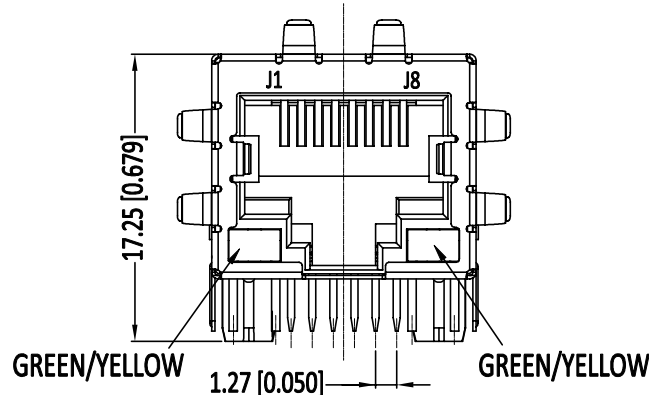
D

D



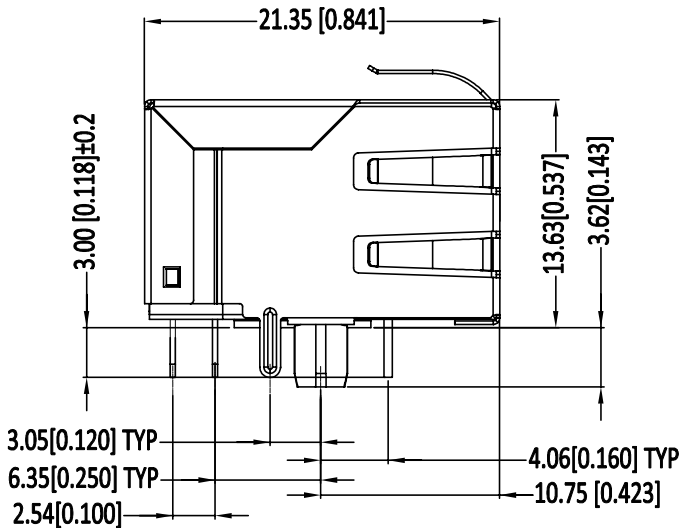
C

C



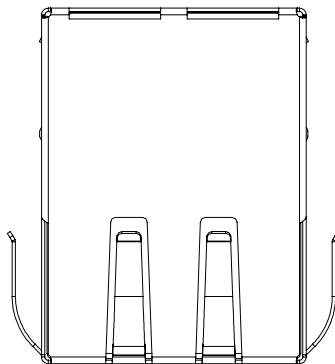
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B

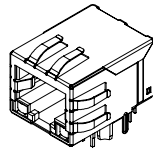


A

A



- 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 CAVITIY 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



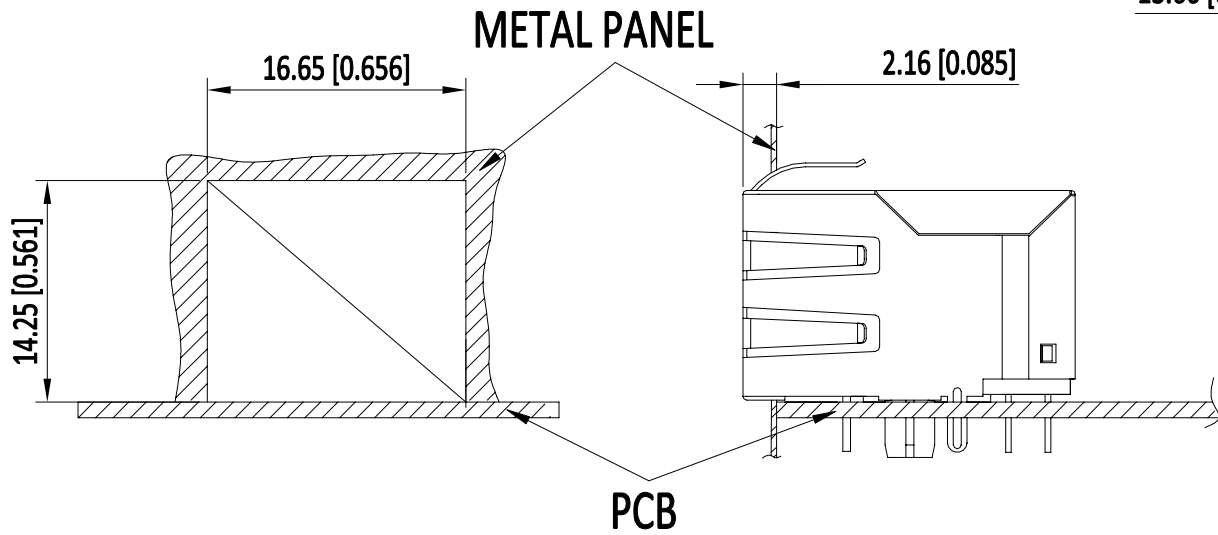
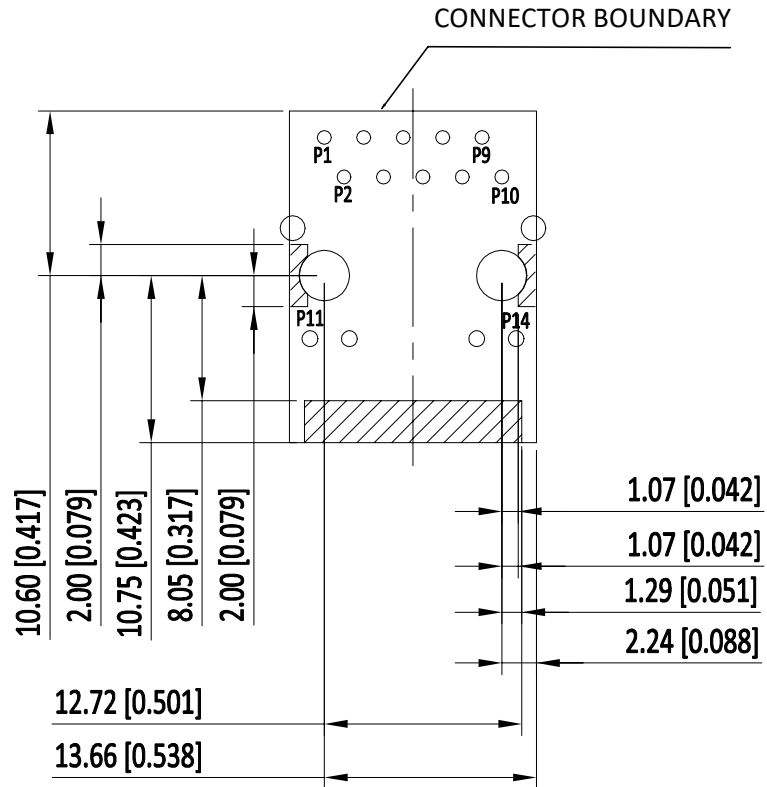
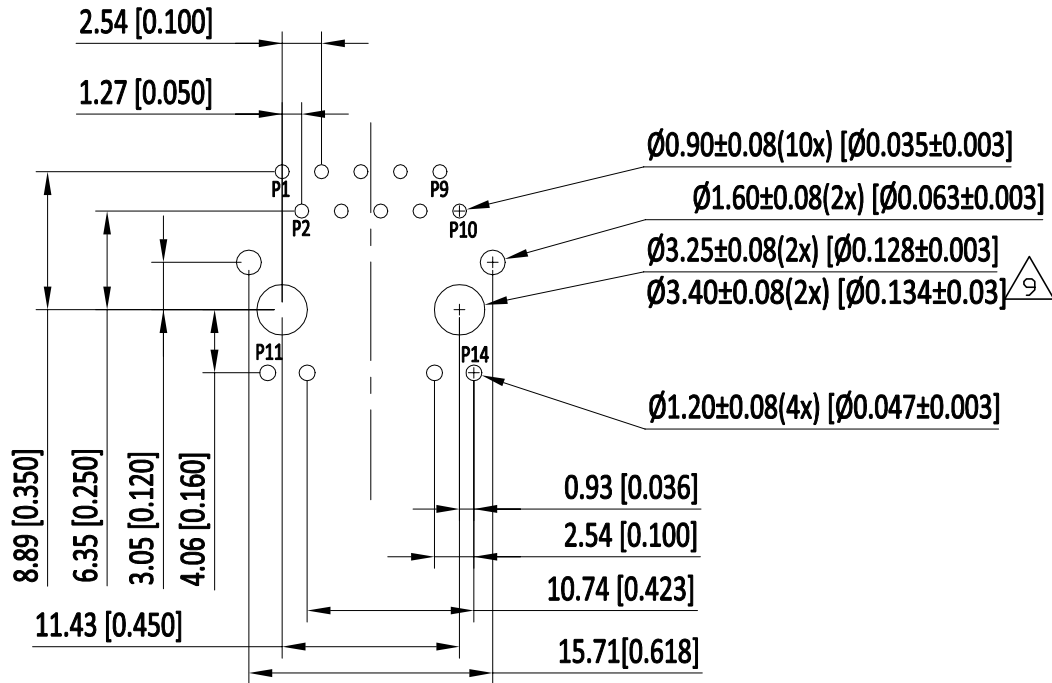
1:1

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			
		APVD 27AUG2016 MARTIN SZELAG	NAME		
		PRODUCT SPEC 108-94552	RJ45 JACK INT.MAG. 1Gb LED 1x1		
		APPLICATION SPEC 114-94447			
		WEIGHT -	SIZE A3	CAGE CODE 00779	DRAWING NO C=2-2301994-4
		CUSTOMER DRAWING	SCALE 3:1	SHEET 1 of 3	REV A2

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	—	SEE SHEET 1	—	—	—

SUGGESTED PCB LAYOUT

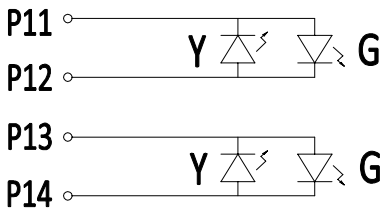
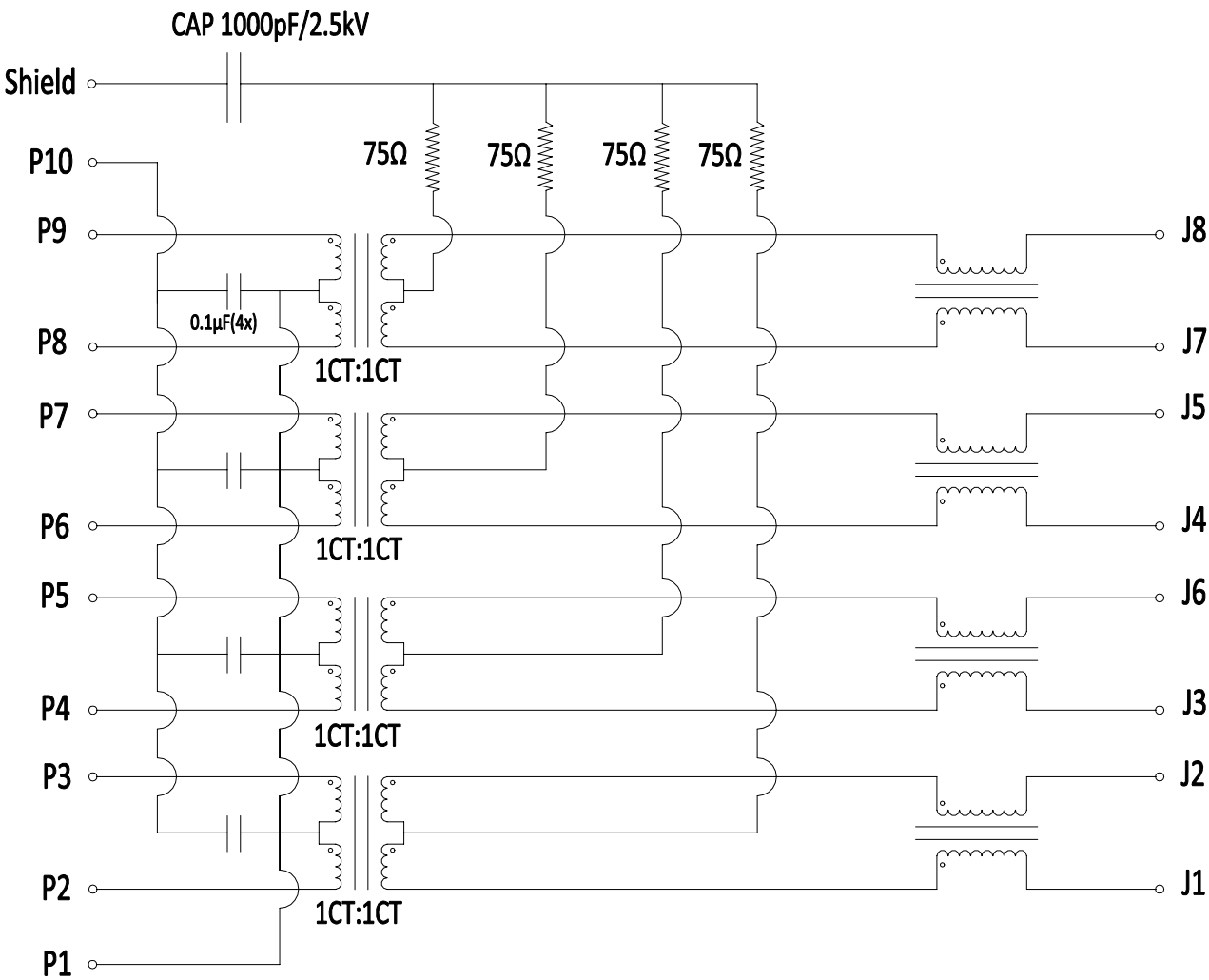


UNIT: mm / inch
TOLERANCES: ±0.10 / 0.004
ONLY FOR THIS VIEW

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN GANESH C M 27AUG2016	TE Connectivity Ltd.		
		CHK FRANZ MUELLER 27AUG2016			
DIMENSIONS: mm [INCHES]	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD MARTIN SZELAG 27AUG2016	NAME RJ45 JACK INT.MAG. 1Gb LED 1x1		
	0 PLC ± — 1 PLC ± — 2 PLC ± — 3 PLC ± — 4 PLC ± — ANGLES ± —	PRODUCT SPEC 108-94552			
MATERIAL 	FINISH 	APPLICATION SPEC 114-94447	SIZE A3	CAGE CODE 00779	DRAWING NO C=2-2301994-4
		WEIGHT —	RESTRICTED TO —		
		CUSTOMER DRAWING	SCALE 3:1	SHEET 2 of 3	REV A2

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

ELECTRICAL CIRCUIT DIAGRAM



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

VF = 2.2 V (max. 2.5 V) @IF = 20 mA

1. TURN RATIO @100kHz: (P2~P3):(J1~J2) = 1:1±2%
(P4~P5):(J3~J6) = 1:1±2%
(P6~P7):(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

2-2301994-4
WWYY-xxxx

CONTROL CODE

DATE CODE
"0213"

YY-YEAR

WW-WEEK

FCC

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 LED 1x1		
DIMENSIONS: mm [INCHES]		PRODUCT SPEC 108-94552			
		APPLICATION SPEC 114-94447			
MATERIAL 		WEIGHT -	SIZE A3	CAGE CODE 00779	DRAWING NO C=2-2301994-4
		FINISH 	RESTRICTED TO -		
			SCALE 3:1 SHEET 3 of 3 REV A2		
			CUSTOMER DRAWING		