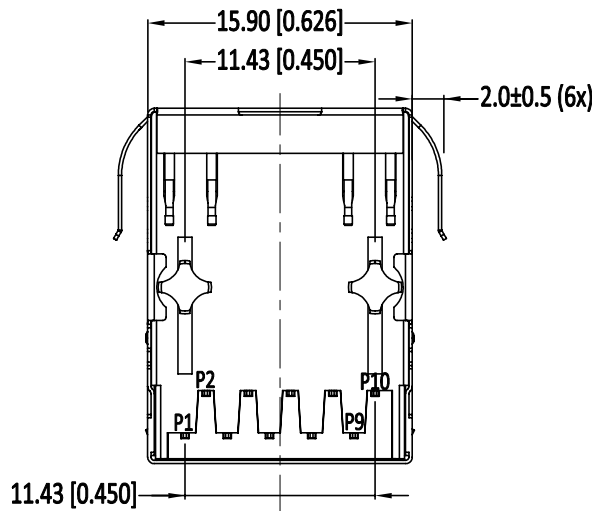


| REVISIONS | | | | | |
|-----------|-----|-------------------------------------|-----------|-----|------|
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
| | A2 | RETURN LOSS SPECIFICATION CORRECTED | 02JUN2021 | SS | OW |

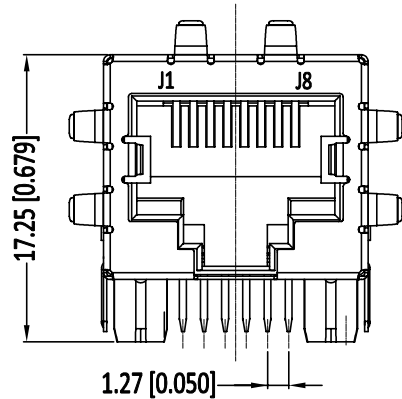
D

D



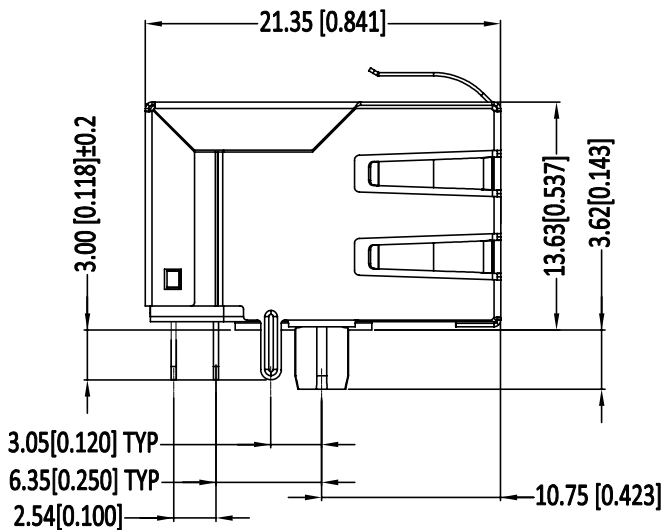
C

C



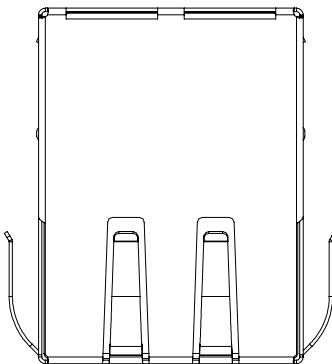
B

B

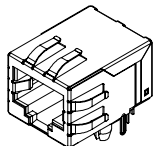


A

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



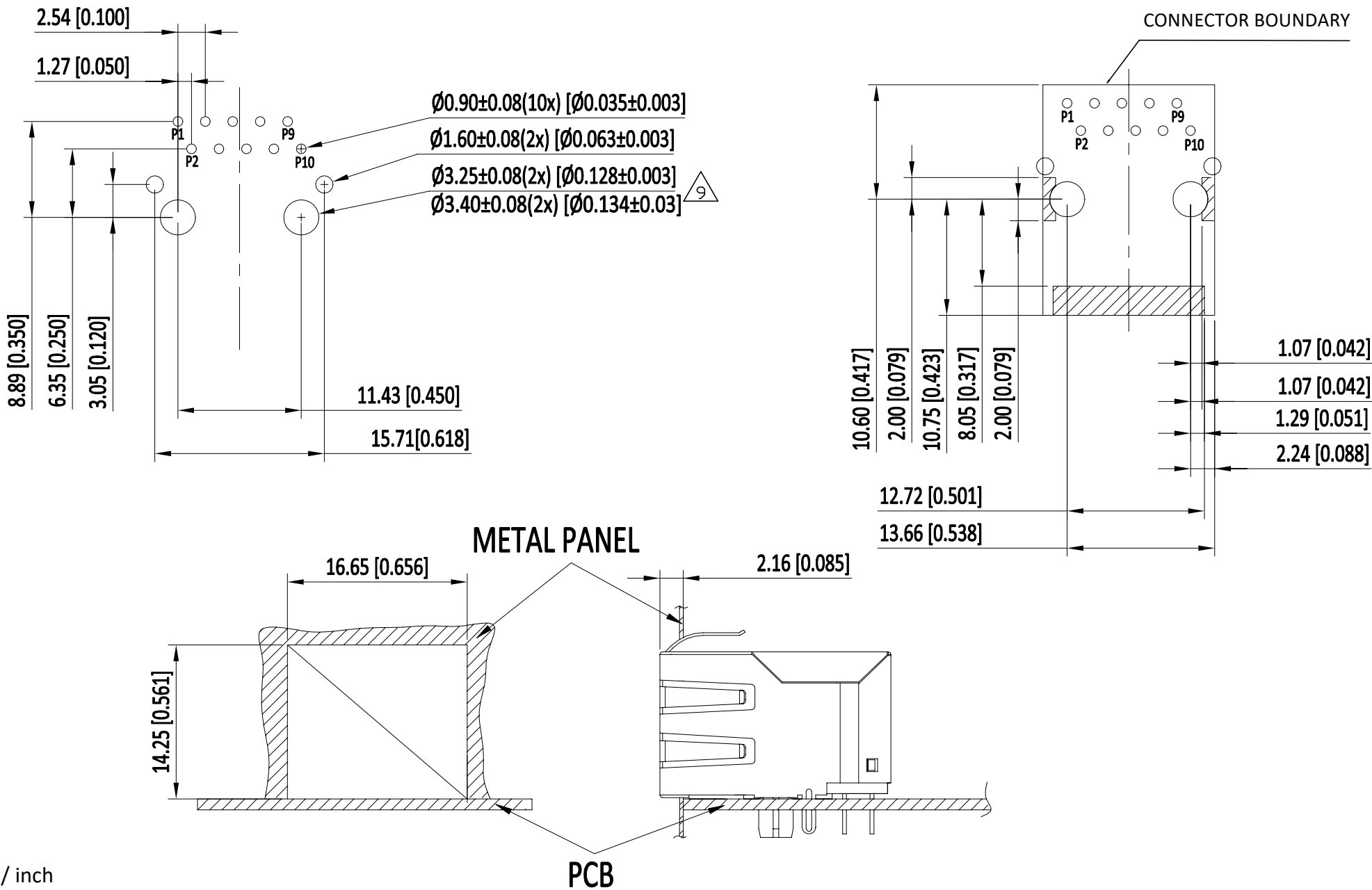
1:1

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


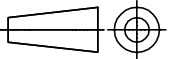


| | | | | | |
|----------------------------------------|--|------------------------------------|------------------------------------|--------------------|-----------------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DWN GANESH C M 27AUG2016 | TE Connectivity Ltd. | | |
| | | CHK FRANZ MUELLER 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 | DRAWING NO C=2-2301994-1 |
| | | FINISH 1 | RESTRICTED TO - | | |
| CUSTOMER DRAWING | | | SCALE 3:1 | SHEET 1 of 3 | REV A2 |

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

SUGGESTED PCB LAYOUT

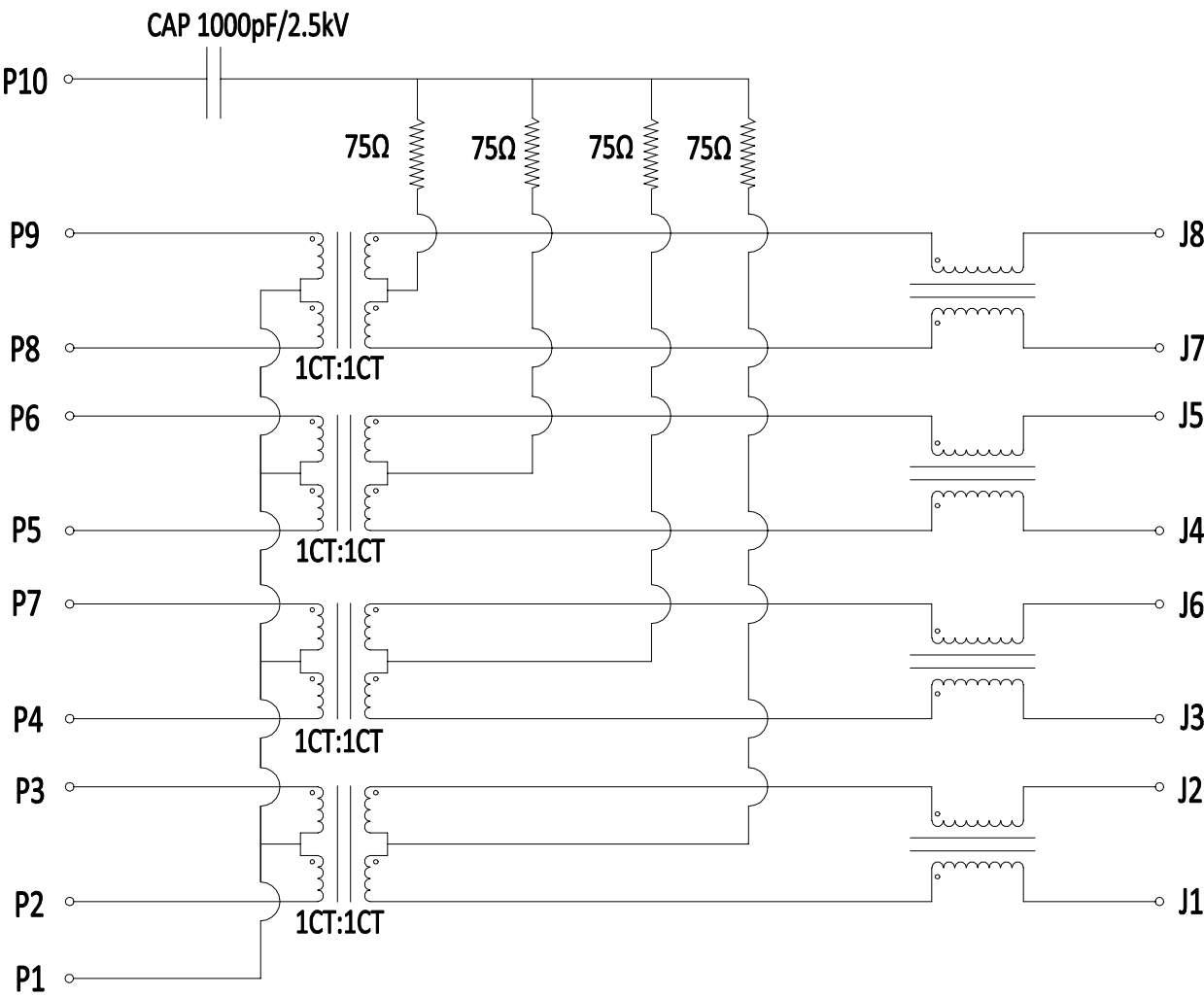


UNIT: mm / inch
TOLERANCES: ±0.10 / 0.004
ONLY FOR THIS VIEW

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

| REVISIONS | | | | | |
|-----------|-----|-------------|------|-----|------|
| 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

2-2301994-1
WWYY-xxxx

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 | | | |
| | | PRODUCT SPEC 108-94552 | | | |
| DIMENSIONS: mm [INCHES] | | APPLICATION SPEC 114-94447 | NAME RJ45 JACK INT.MAG. 1Gb 1x1 | | |
| | | WEIGHT — | SIZE A3 | CAGE CODE 00779 | DRAWING NO C=2-2301994-1 |
| MATERIAL 1 | | FINISH 1 | RESTRICTED TO — | | |
| CUSTOMER DRAWING | | | SCALE 3:1 | SHEET 3 of 3 | REV A2 |