

D

C

B

A

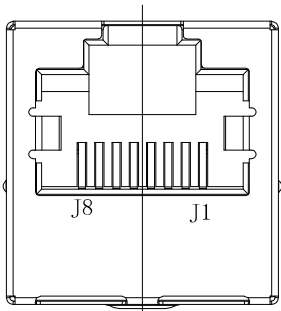
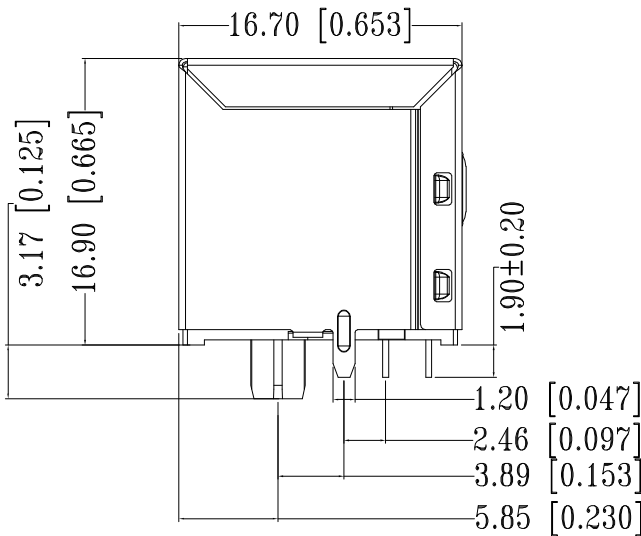
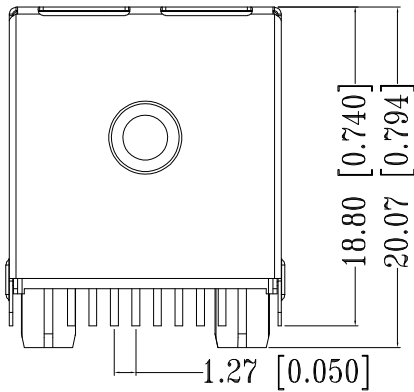
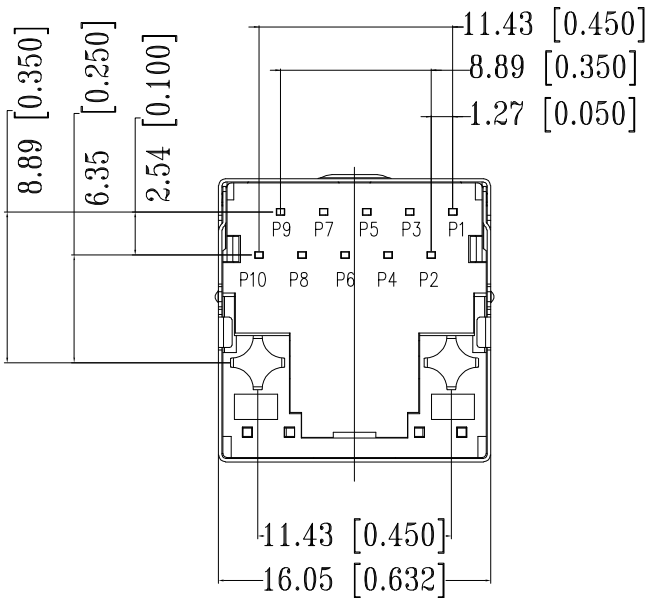
D

C

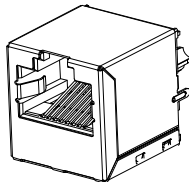
B

A

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	A1	NEW RELEASE	09MAR2017	GCM	MSZ



- ⚠ 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
- ⚠ UNLESS OTHERWISE SPECIFIED, SEE TABLE FOR ALL DIMENSIONS TOLERANCES
- 8 JACK CONFIGURATION: 1 x 1
TAB DIRECTION: UP
- 9 PACKAGING: REEL (T+R) ACCORDING TO PACKAGING SPECIFICATION 107-18116



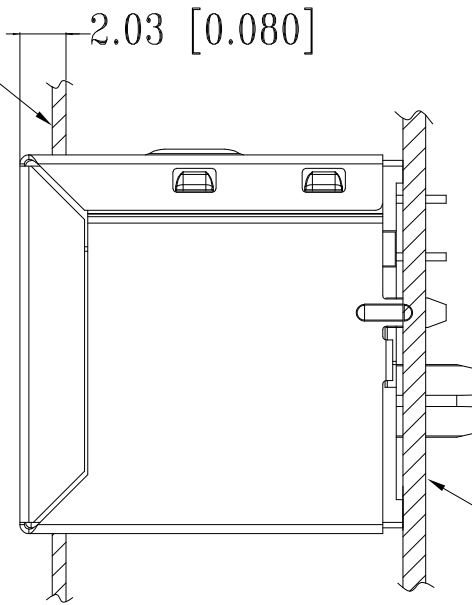
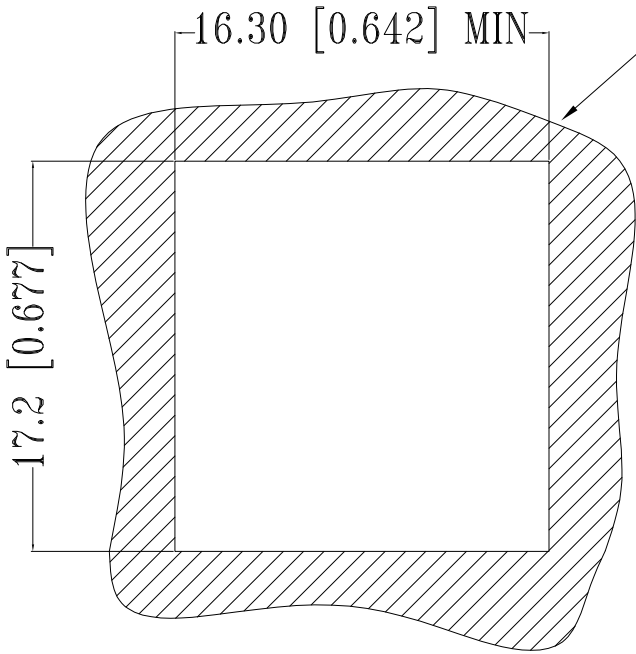
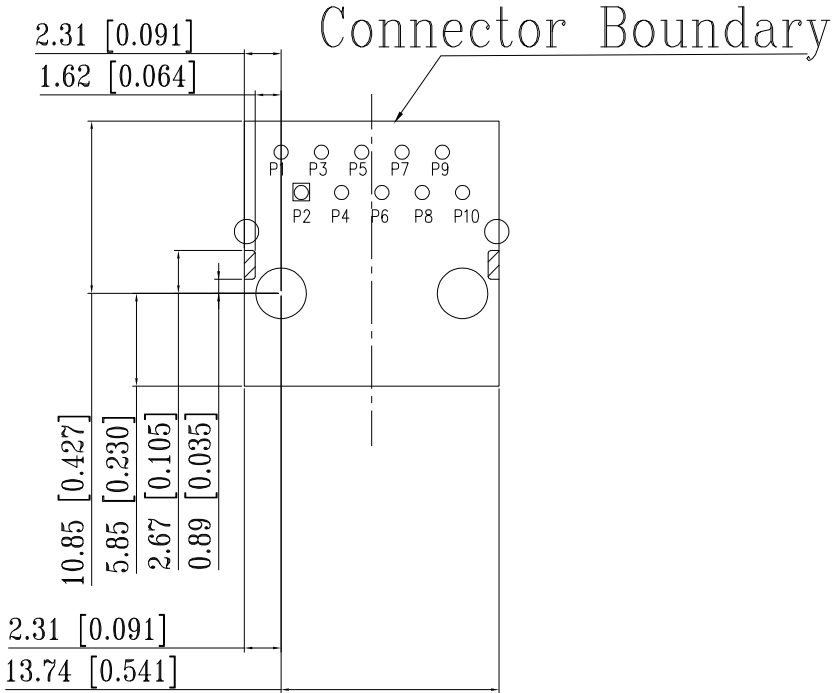
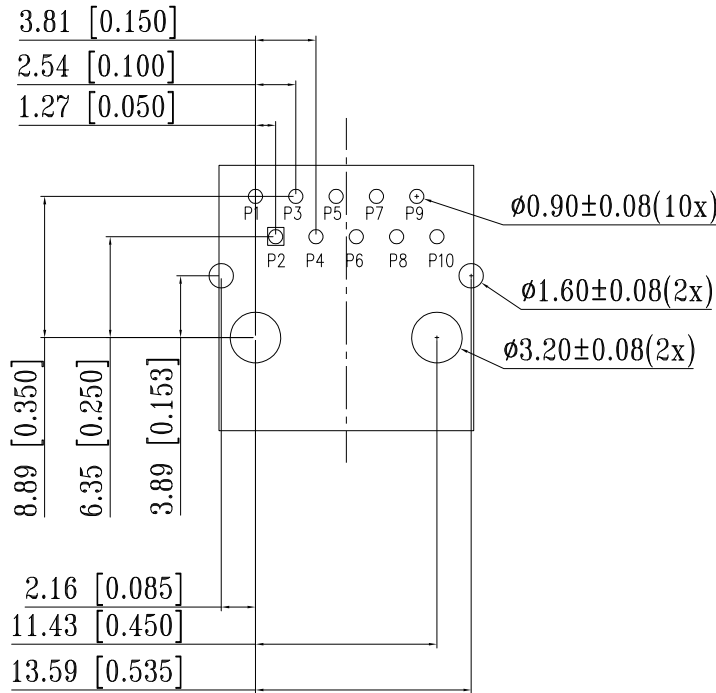
1:1

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		
		CHK FRANZ MUELLER 27AUG2016			
		APVD MARTIN SZELAG 27AUG2016	NAME RJ45 JACK INT.MAG. 1Gb 1x1 VERT		
DIMENSIONS: mm [INCHES]		PRODUCT SPEC 108-94552			
		APPLICATION SPEC 114-94447			
MATERIAL 1		WEIGHT -	SIZE A3	CAGE CODE 00779	DRAWING NO C-2301995-1
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± - 1 PLC ± - 2 PLC ± - 3 PLC ± - 4 PLC ± - ANGLES ± - FINISH 1		CUSTOMER DRAWING	SCALE 3:1	SHEET 1 of 3	REV A1

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

SUGGESTED PCB LAYOUT

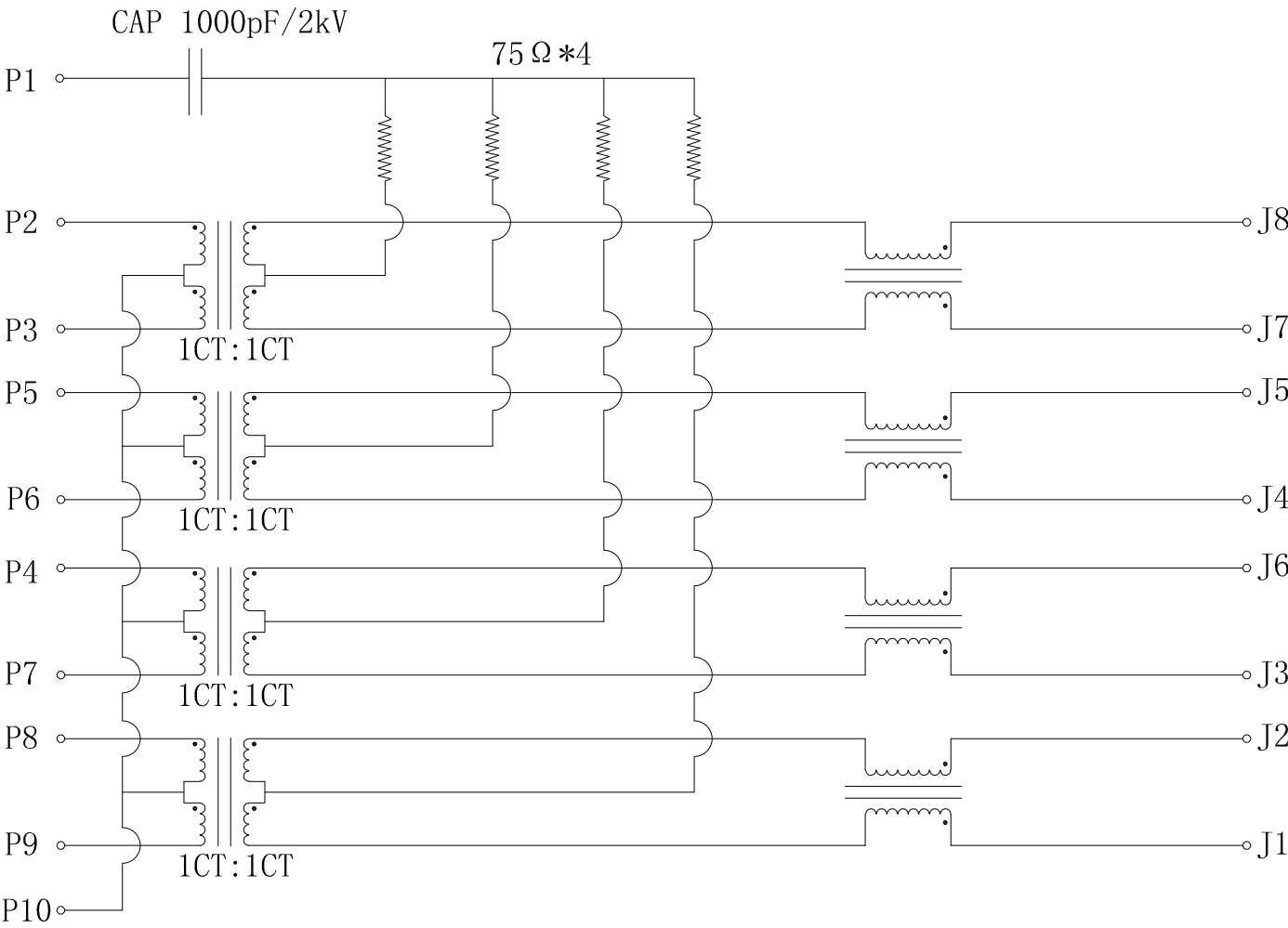


UNIT: mm / inch
TOLERANCES: ± 0.10 / 0.004

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		CHK FRANZ MUELLER 27AUG2016			
		APVD MARTIN SZELAG 27AUG2016	NAME RJ45 JACK INT.MAG. 1Gb 1x1 VERT		
		PRODUCT SPEC 108-94552			
		APPLICATION SPEC 114-94447			
		WEIGHT 0	SIZE A3	CAGE CODE 00779	DRAWING NO C-2301995-1
CUSTOMER DRAWING		SCALE 3:1	SHEET 2 OF 3	REV A1	

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

ELECTRICAL CIRCUIT DIAGRAM



- 1.0 Turn Ratio @100kHz: (P9~P8):(J1~J2) = 1:1±2%
(P7~P4):(J3~J6) = 1:1±2%
(P6~P5):(J4~J5) = 1:1±2%
(P3~P2):(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

2301995-1
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		
		CHK FRANZ MUELLER 27AUG2016			
DIMENSIONS: mm [INCHES]		APVD MARTIN SZELAG 27AUG2016	NAME RJ45 JACK INT.MAG. 1Gb 1x1 VERT		
		PRODUCT SPEC 108–94552			
		APPLICATION SPEC 114–94447			
MATERIAL 1		WEIGHT 0	SIZE A3	CAGE CODE 00779	DRAWING NO C=2301995–1
		FINISH 1	RESTRICTED TO —		
CUSTOMER DRAWING			SCALE 3:1	SHEET 3 OF 3	REV A1