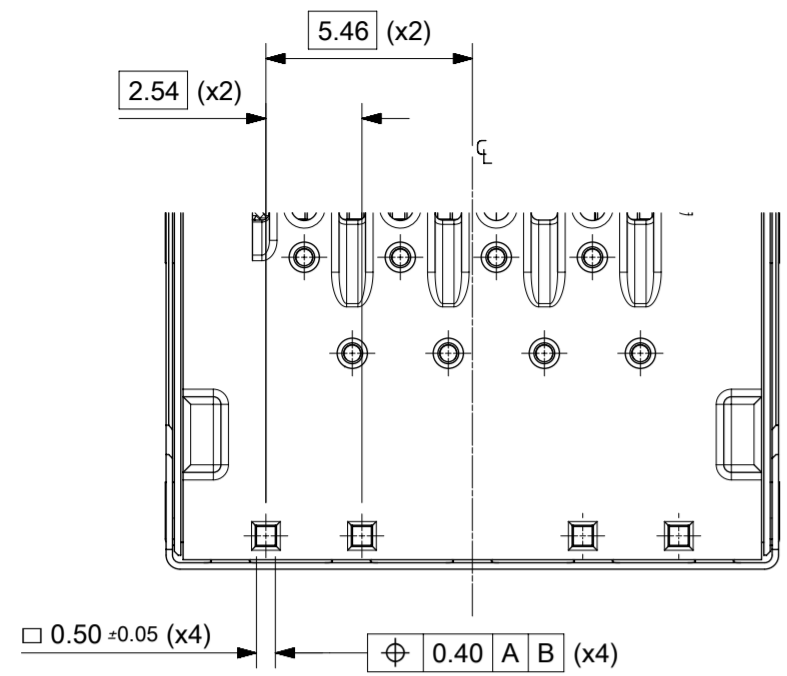
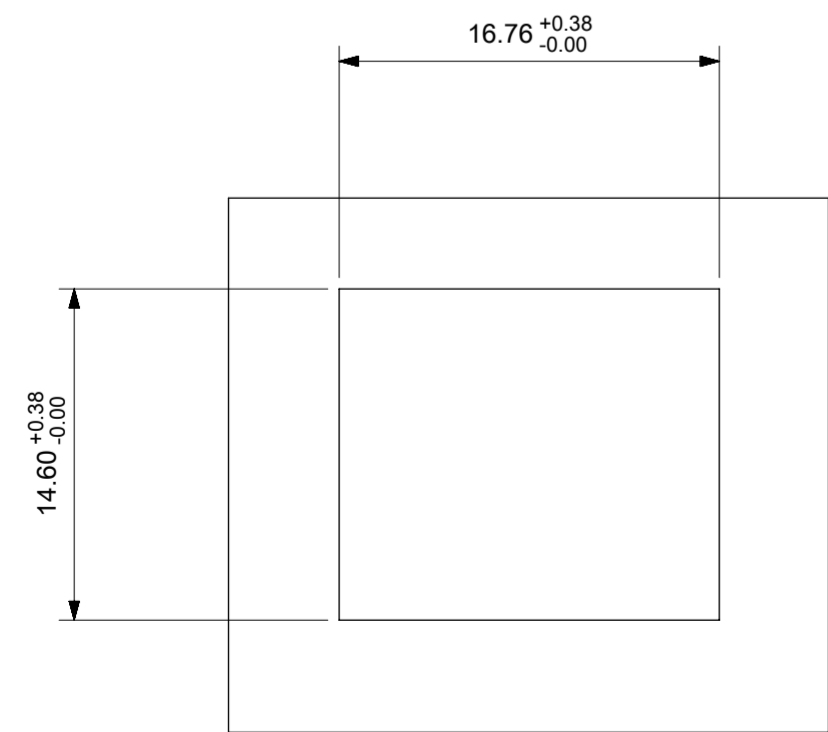
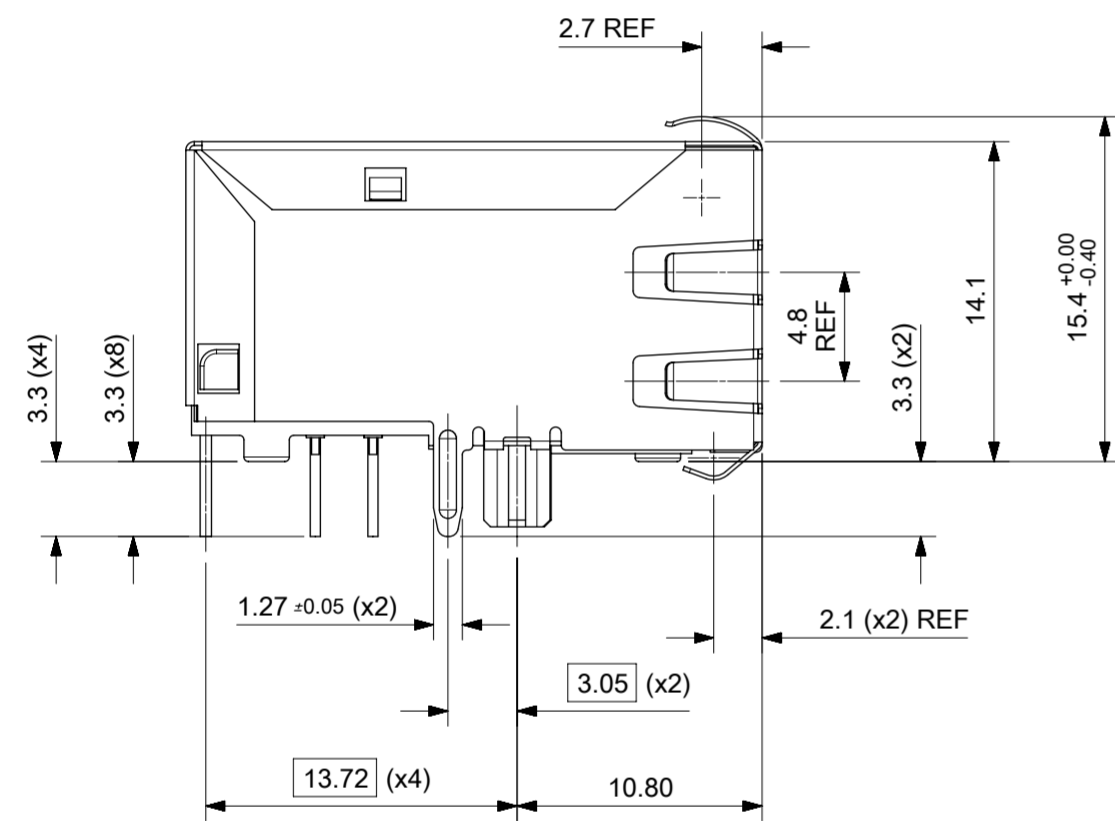


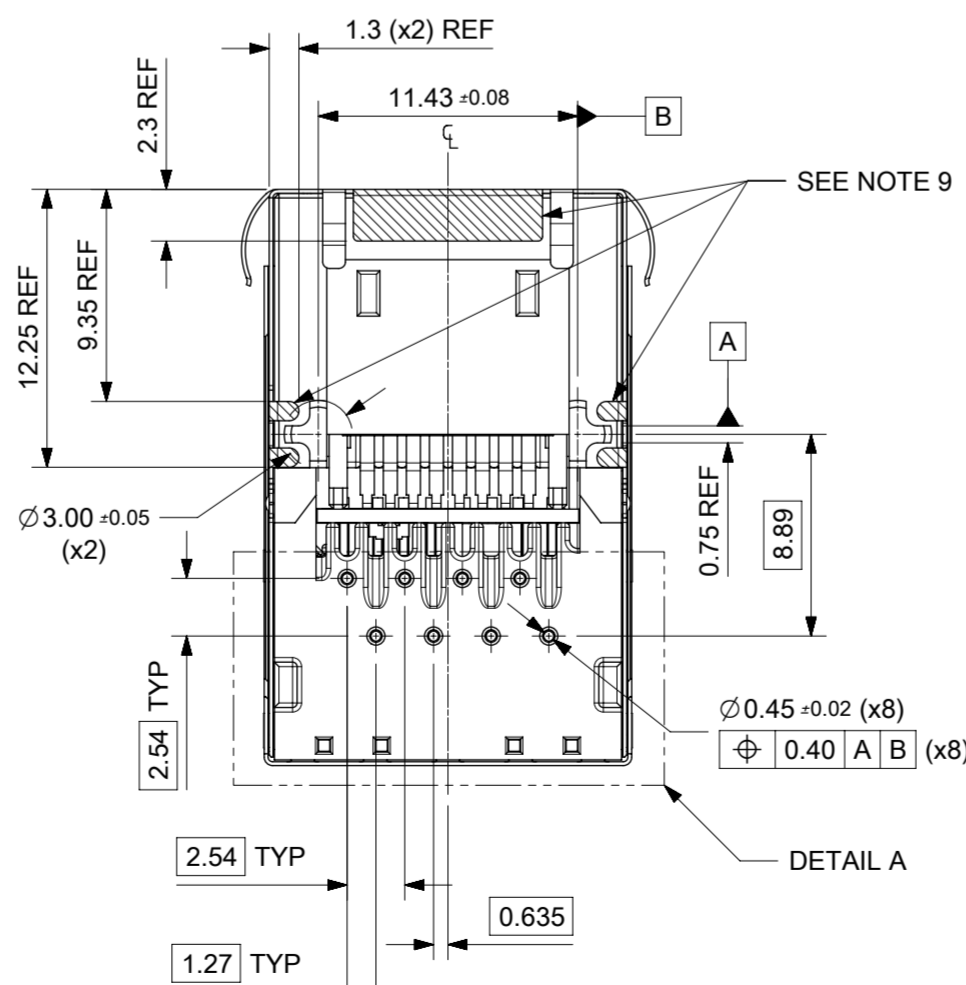
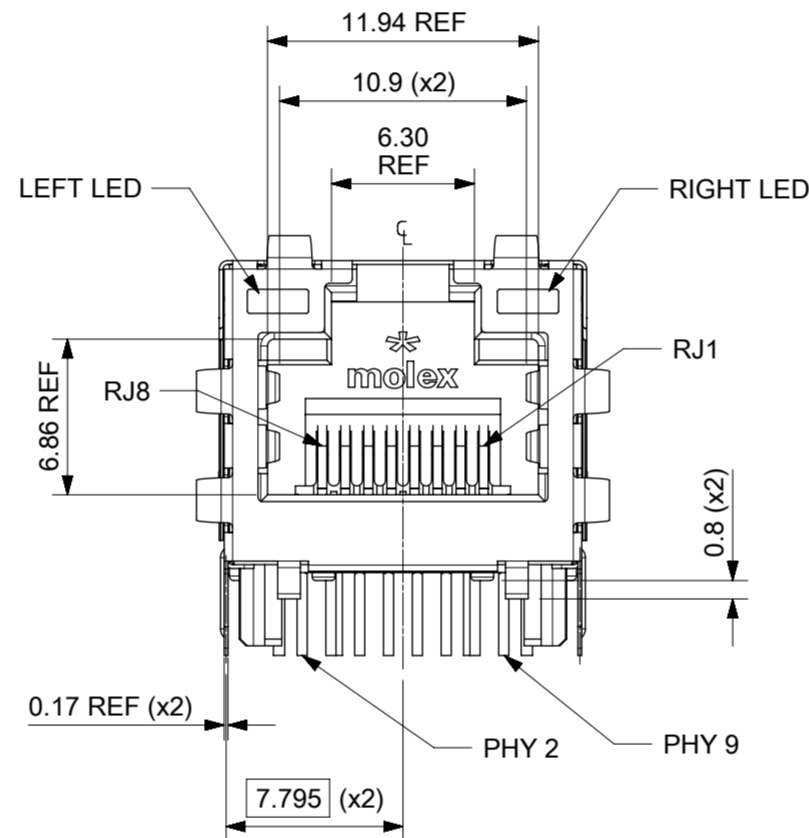
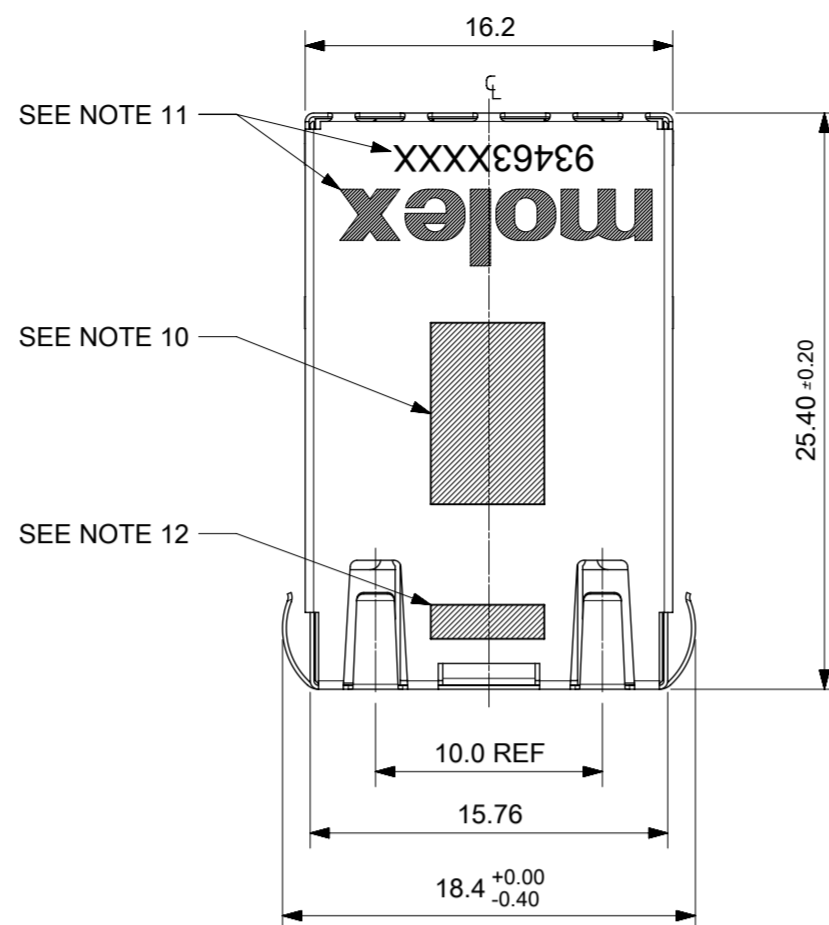
INVERTED PROFILE MAGNETIC JACK
FAST ETHERNET W/LED
AND W/SHIELD TABS TOP, SIDE AND BOTTOM



DETAIL A
SCALE 5:1

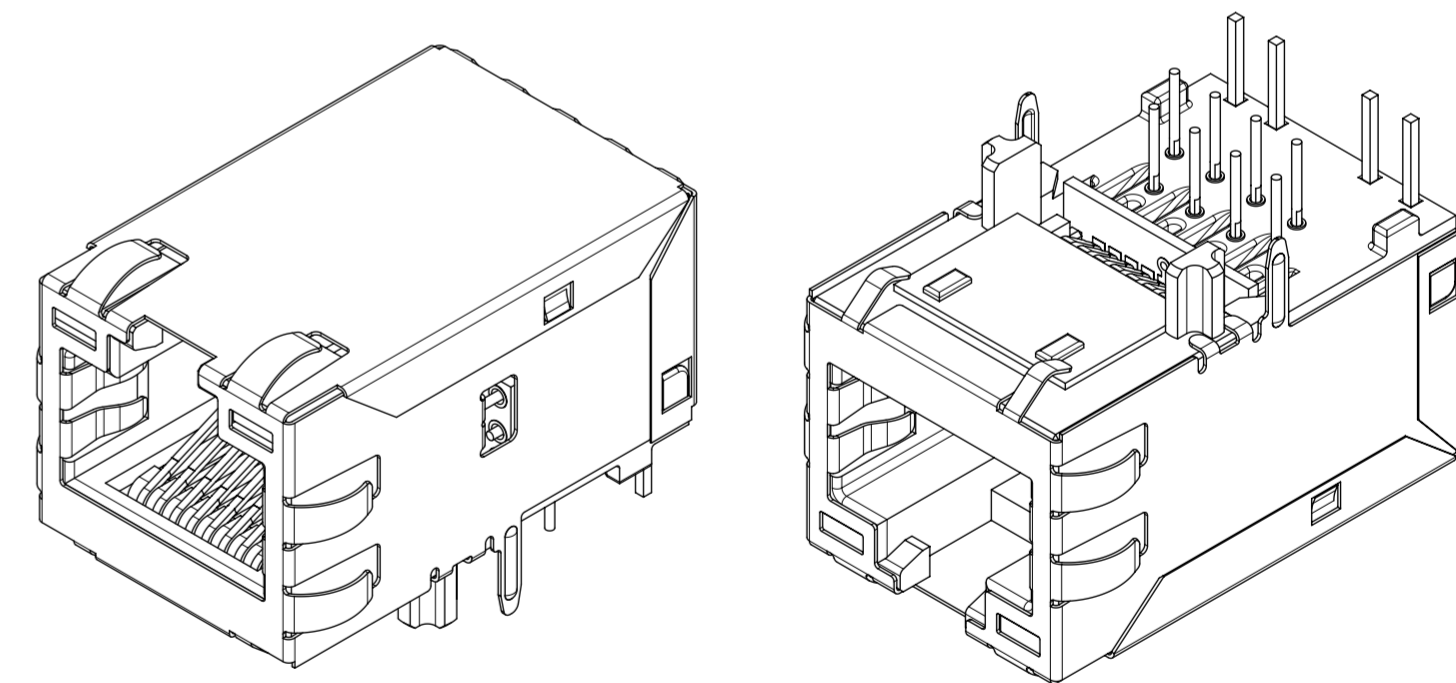


SUGGESTED PANEL CUT-OUT

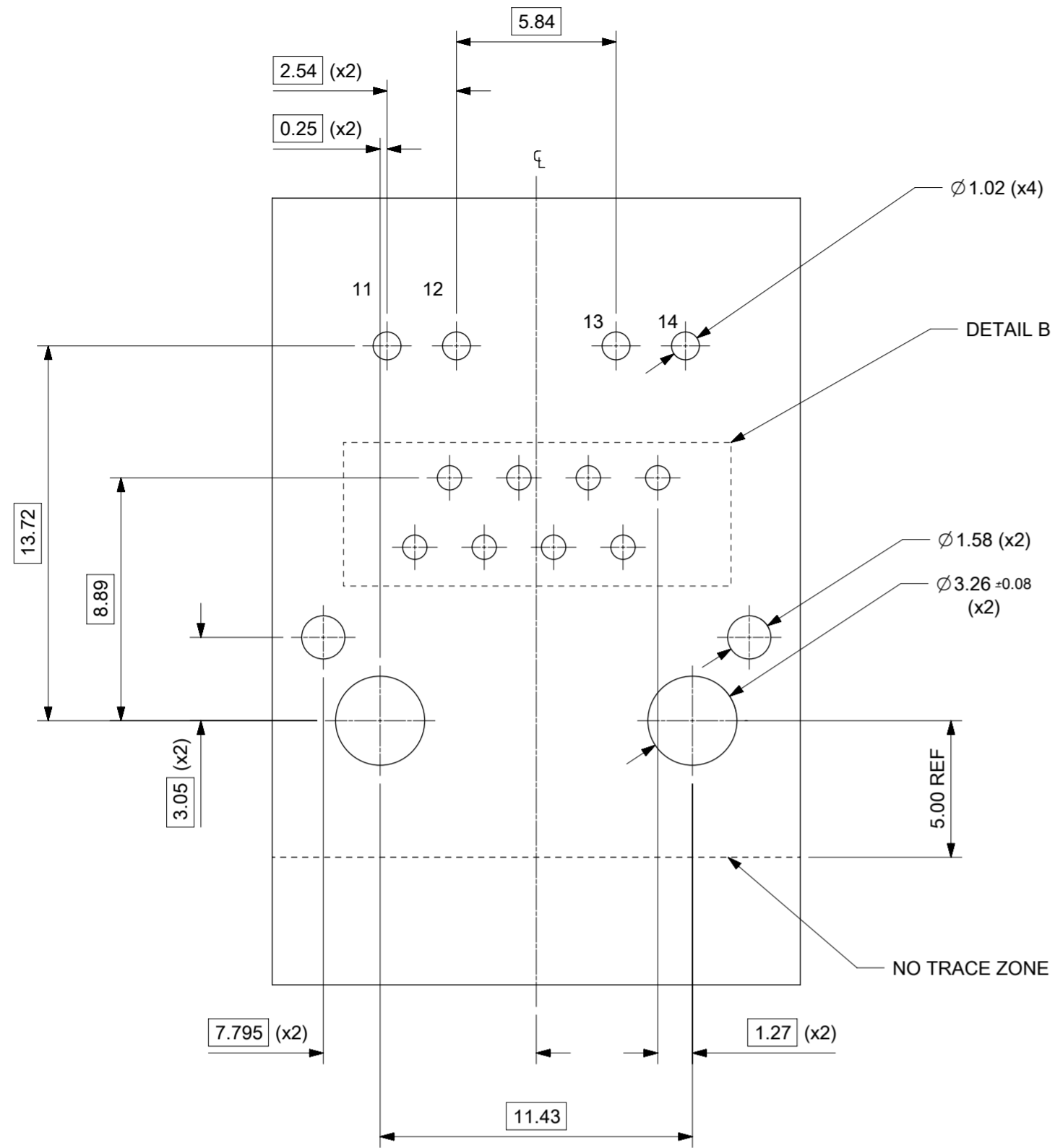


NOTES:

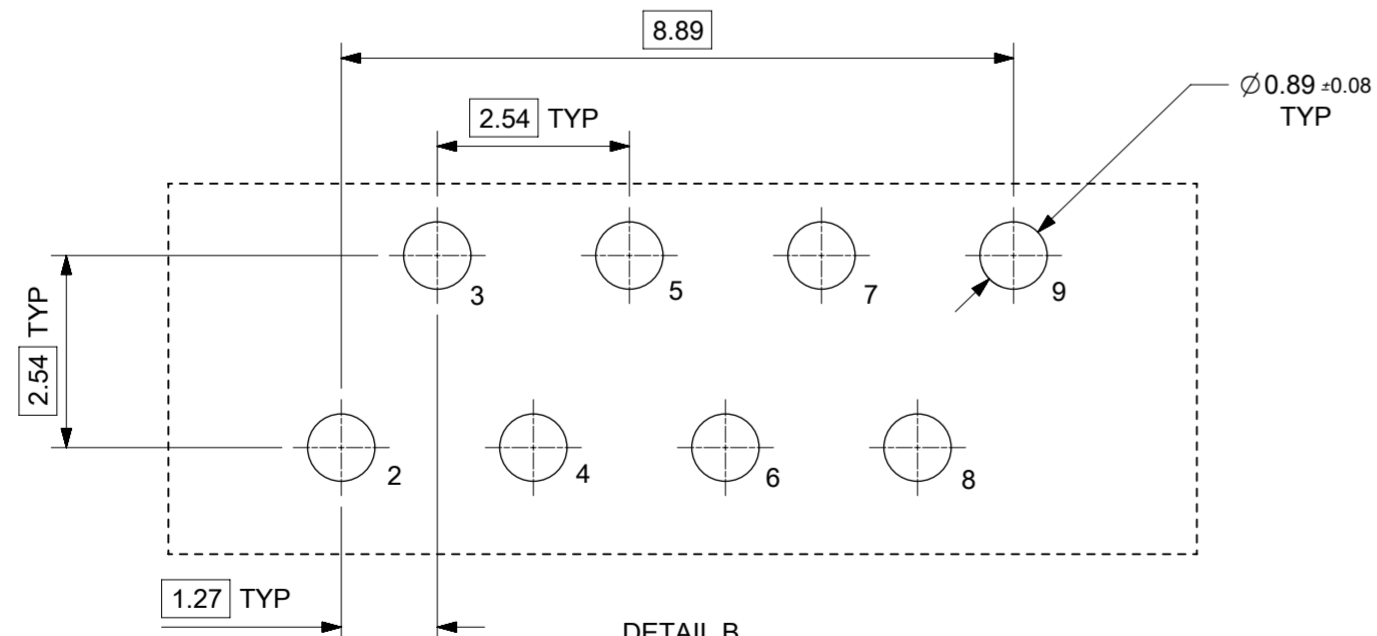
- 1 - SHIELD MATERIAL: 0.17 mm THICK BRASS PRE-PLATED WITH NICKEL.
SOLDER TABS POST DIPPED WITH MIN. 1.27 μm TIN
- 2 - HOUSING MATERIAL: LCP, BLACK, UL 94V-0
- 3 - TERMINALS MATERIAL: PHOSPHOR BRONZE
RJ45 CONTACT PLATING: BASE NICKEL, GOLD FLASH OVER PALLADIUM NICKEL
PHY SOLDER TAILS: COPPER ALLOY REFER TO 934620001 PSP
- 4 - MATING INTERFACE ACCORDING TO IEC 60603-7 & TIA-1096-A
- 5 - PRODUCT SPECIFICATION: 934620001 PSP
- 6 - PACKAGING SPECIFICATION: 934620001 PSK TRAY
- 7 - STAND OFF TO SYSTEM BOARD 0.30 mm MIN
- 8 - RECOMMENDED PCB THICKNESS: 1.57 mm REF
- 9 - SHIELD: AVOID ROUTING TRACES OR PLACING ANY VIAS BELOW THESE AREAS.
- 10 - AREA FOR PICK AND PLACE: 5.0 mm x 8.0 mm
- 11 - INSCRIPTION MARKED BY LASER:
1st : MOLEX
2st : P/N (SEE BOM)
- 12 - INSCRIPTION MARKED BY LASER:
DATE CODE(DAY/WEEK/YEAR)
- 13 - MATERIAL COMPLIANT TO RoHS DIRECTIVE 2002/95/EC



THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								
UPDATED SCHEMATIC EC NO: 167044 DRWN: KREILLY CHKD: DSHEA REV: APPR: DBYRNES	2017/10/23	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION UNITS	SCALE				
	2017/10/31	ANGULAR TOL ± 2.0 °	mm	3:1				
	2017/11/22	4 PLACES ±	DRWN BY	DATE		1" MXMAG 4 CORE FE COM		
		3 PLACES ±	KREILLY	2015/09/08				
		2 PLACES ± 0.1	CHK'D BY	DATE		PRODUCT CUSTOMER DRAWING		
	1 PLACE ± 0.2	DBYRNES	2016/09/19					
	0 PLACES ±	APPR BY	DATE	SERIES	MATERIAL NUMBER	CUSTOMER		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	JALEXANDER	2016/01/07	93463	SEE TABLE ON SHEET 2	GENERAL MARKET		
C		DRAWING SIZE	THIRD ANGLE PROJECTION	A2	DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
					934630001	PSD	000	1 OF 3



SUGGESTED BOARD LAYOUT
FAST ETHERNET
VIEW FROM COMPONENT SIDE
ALL DIMS ARE REFERENCE



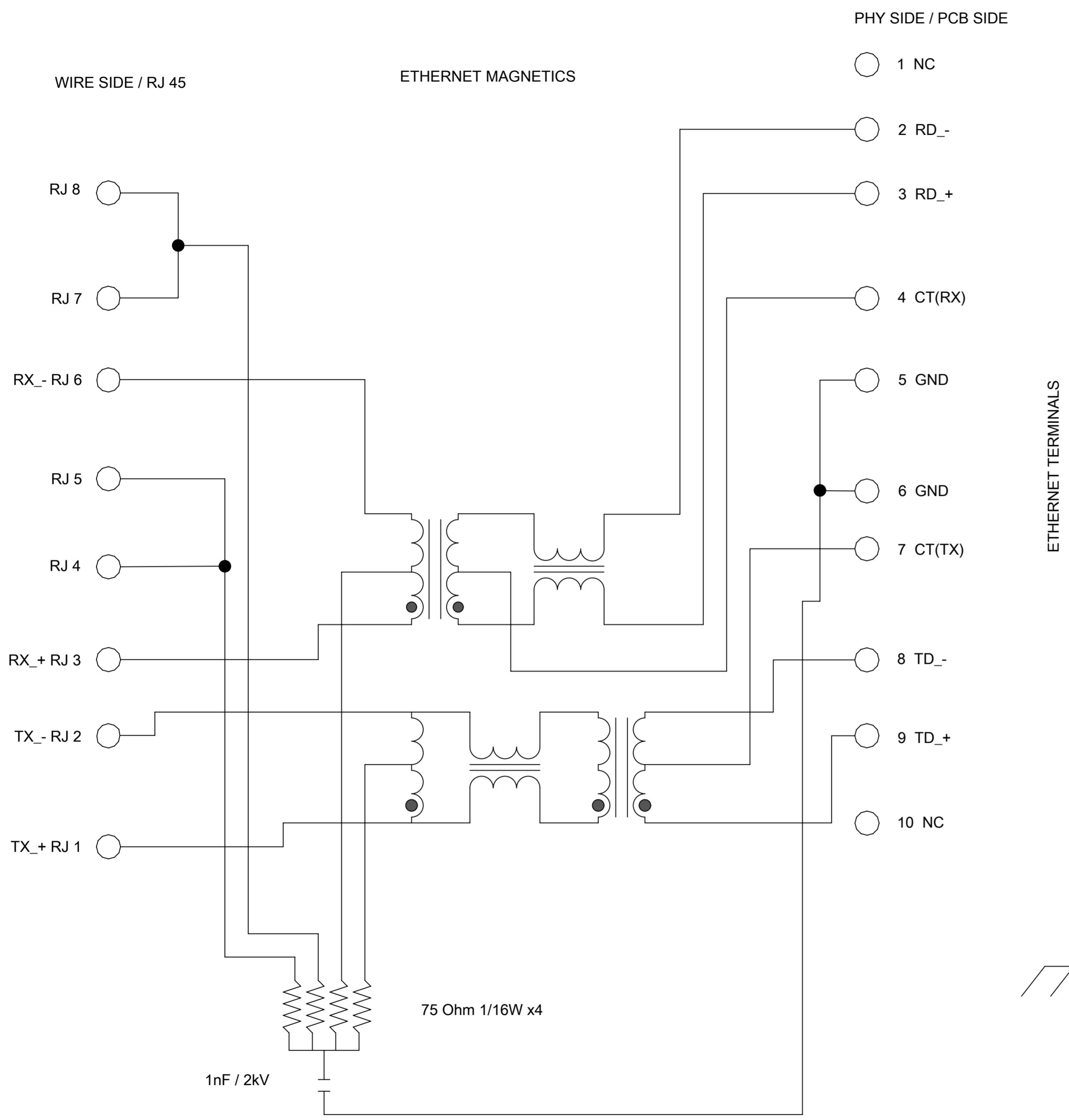
DETAIL B
SCALE 10:1

PIN CONFIGURATION
FOR FAST ETHERNET

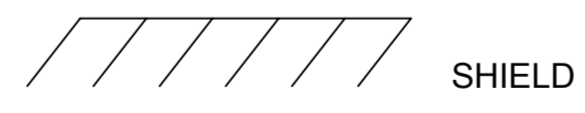
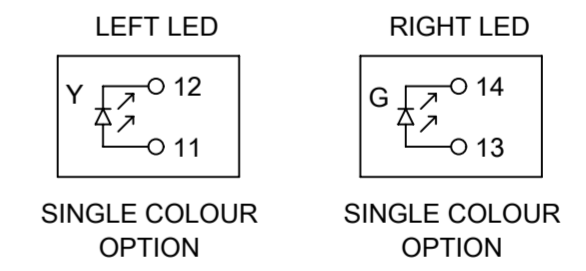
PART NUMBER	LEFT LED	RIGHT LED
934633214	YELLOW	GREEN

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UPDATED SCHEMATIC EC NO: 167044 DRWN: KREILLY CHKD: DSHEA REV / APPR: DBYRNES	2017/10/23	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION UNITS
	2017/10/31	ANGULAR TOL ± 2.0 °	mm
	2017/11/22	4 PLACES ±	SCALE
		3 PLACES ±	5:1
		2 PLACES ± 0.1	DRWN BY
	1 PLACE ± 0.2	DATE	KREILLY
	0 PLACES ±	DATE	2015/09/08
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	CHK'D BY	DATE
		DBYRNES	2016/09/19
		APPR BY	DATE
		JALEXANDER	2016/01/07
		DRAWING SIZE	THIRD ANGLE PROJECTION
		A2	
PRODUCT CUSTOMER DRAWING SERIES: 93463 MATERIAL NUMBER: SEE TABLE ON SHEET 2 CUSTOMER: GENERAL MARKET		DIMENSION UNITS: mm SCALE: 5:1	
DOCUMENT NUMBER: 934630001 DOC TYPE: PSD DOC PART: 000 SHEET NUMBER: 2 OF 3			
1" MXMAG 4 CORE FE COM			

H
G
F
E
D
C
B
A



Description	Value	
OCL @100 kHz, 0.1 V, 8 mA DC bias 0°C to +70°C)	350 µH min.	
Turns ratio	1CT:1CT	
Transmission characteristics @ 25°C, all four pairs		
Insertion Loss		
Frequency f, (MHz)	Limits (dB max.)	Typical Values (dB max.)
1.0-9.9	0.4+0.1*log (f)	0.5 @ 10 MHz
10-49.9	0.5+0.3*log (f/10)	0.7 @ 50 MHz
50-79.9	1+1.4*log (f/80)	1.0 @ 80 MHz
80-100	1.3+3*log (f/100)	1.3 @ 100 MHz
Return Loss		
Frequency f, (MHz)	Limits (dB min.)	Typical Values (dB min.)
1.0-39.9	18	18 @ 40 MHz
40-100	12-20*log (f/80)	10 @ 100 MHz
CMR		
Frequency f, (MHz)	Limits (dB min.)	Typical Values (dB min.)
1.0-100	30	30 @ 100 MHz
NEXT		
Frequency f, (MHz)	Limits (dB min.)	Typical Values (dB min.)
1.0-39.9	35	35 @ 40 MHz
40-100	33-20*log (f/50)	27 @ 100 MHz
Isolation PHY to wire side	2.25 kV DC/60 s	



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UPDATED SCHEMATIC EC NO: 167044 DRWN: KREILLY CHKD: DSHEA REV / APPR: DBYRNES	2017/10/23	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION UNITS	SCALE	
	2017/10/31	(UNLESS SPECIFIED)	mm	1:1	
	2017/11/22	ANGULAR TOL ± 2.0 °	DRWN BY	DATE	
		4 PLACES ±	KREILLY	2015/09/08	
	3 PLACES ±	CHK'D BY	DATE	1" MXMAG 4 CORE FE COM	
	2 PLACES ± 0.1	DBYRNES	2016/09/19		
	1 PLACE ± 0.2	APPR BY	DATE		
	0 PLACES ±	JALEXANDER	2016/01/07		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWING SIZE	THIRD ANGLE PROJECTION	PRODUCT CUSTOMER DRAWING	
		A2		SERIES	MATERIAL NUMBER
				93463	SEE TABLE ON SHEET 2
				DOCUMENT NUMBER	CUSTOMER
				934630001	GENERAL MARKET
				DOC TYPE	DOC PART SHEET NUMBER
				PSD	000 3 OF 3