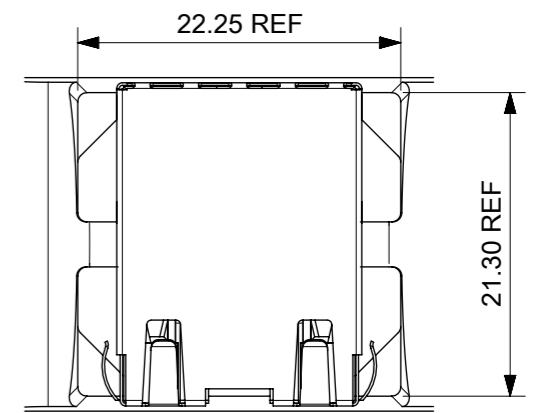
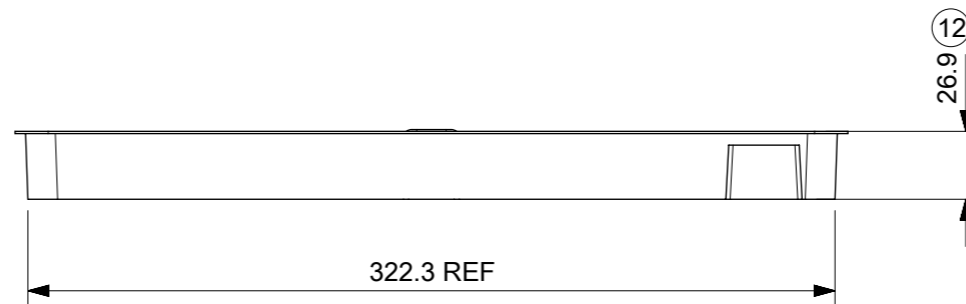
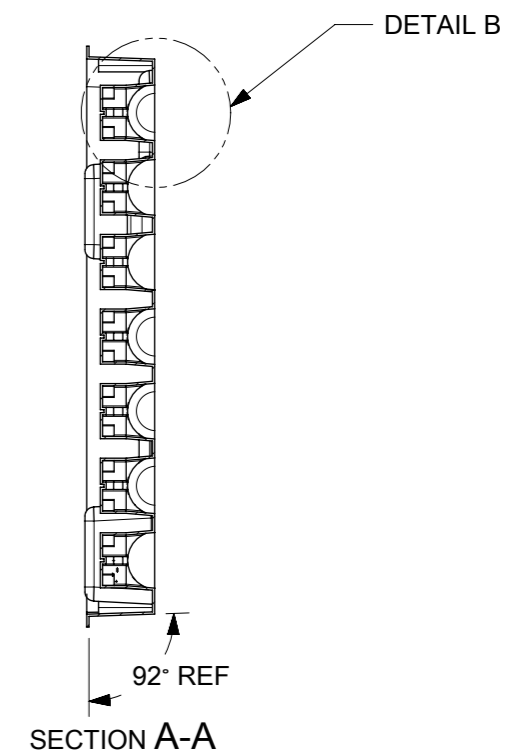
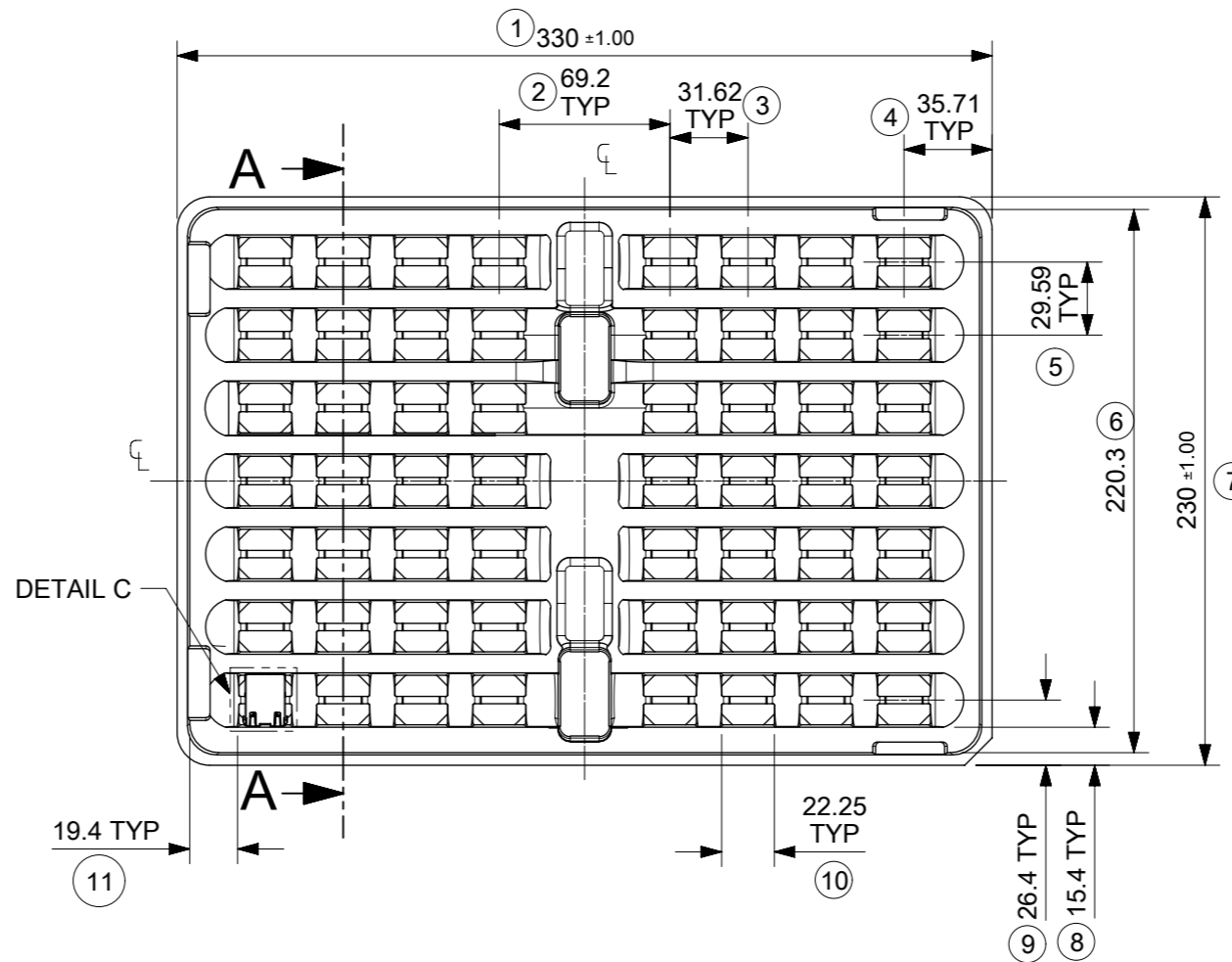


DETAIL B



DETAIL C  
SCALE 2:1

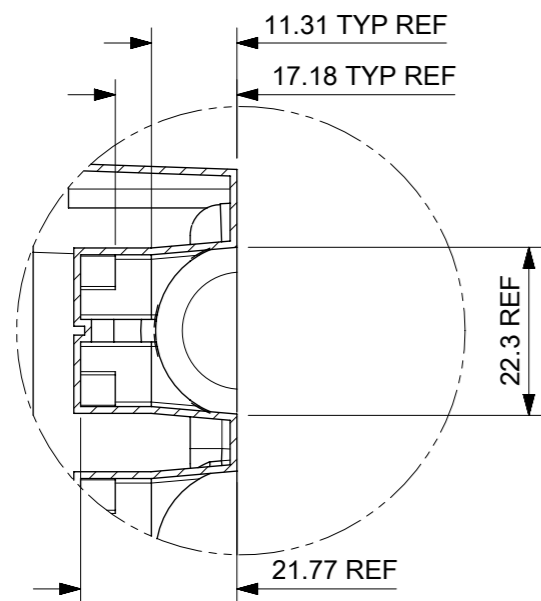


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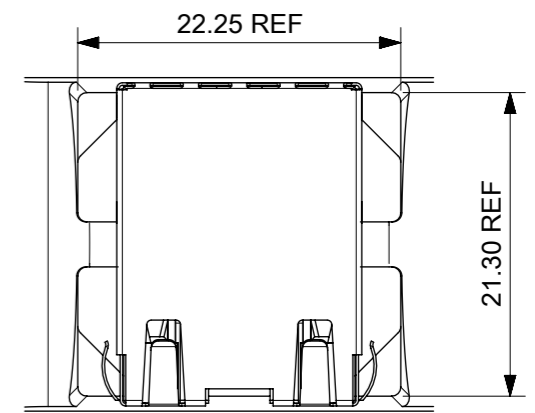
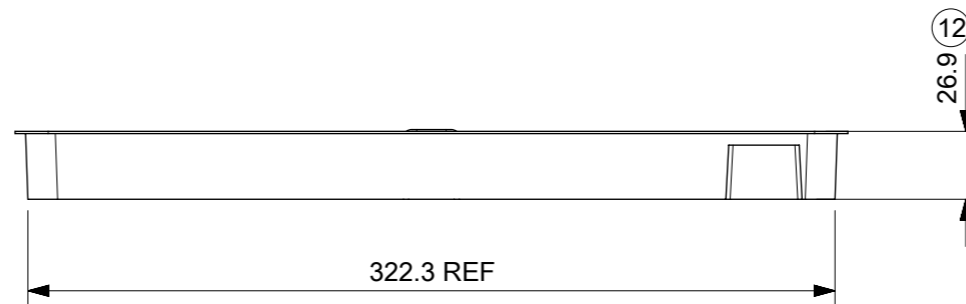
1. MATERIAL: PETA ANTISTATIC
2. THICKNESS: 0.9 mm ± 0.05 mm
3. COLOUR: CLEAR
4. BOW 2 mm MAXIMUM PER 330 mm
5. TWIST 2 mm MAXIMUM PER 330 mm
6. TRAY PART NO. AND RECYCLE LOGO TO BE CLEARLY MARKED ON TRAY  
RECYCLE LOGO SHOULD BE APPROPRIATE TO MATERIAL USED
7. WHERE RELEVANT, DIMENSIONS SHOULD BE SYMMETRICAL ABOUT THE CENTRELINE
8. GENERAL PROFILE TOLERANCE  $\overline{\cup}$  0.40 ON NON DIMENSIONED FEATURES

LAST INSPECTION NUMBER USED: 12

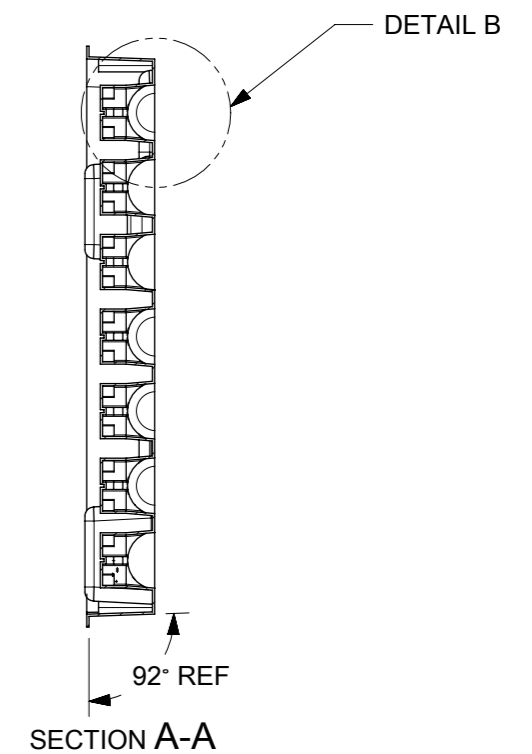
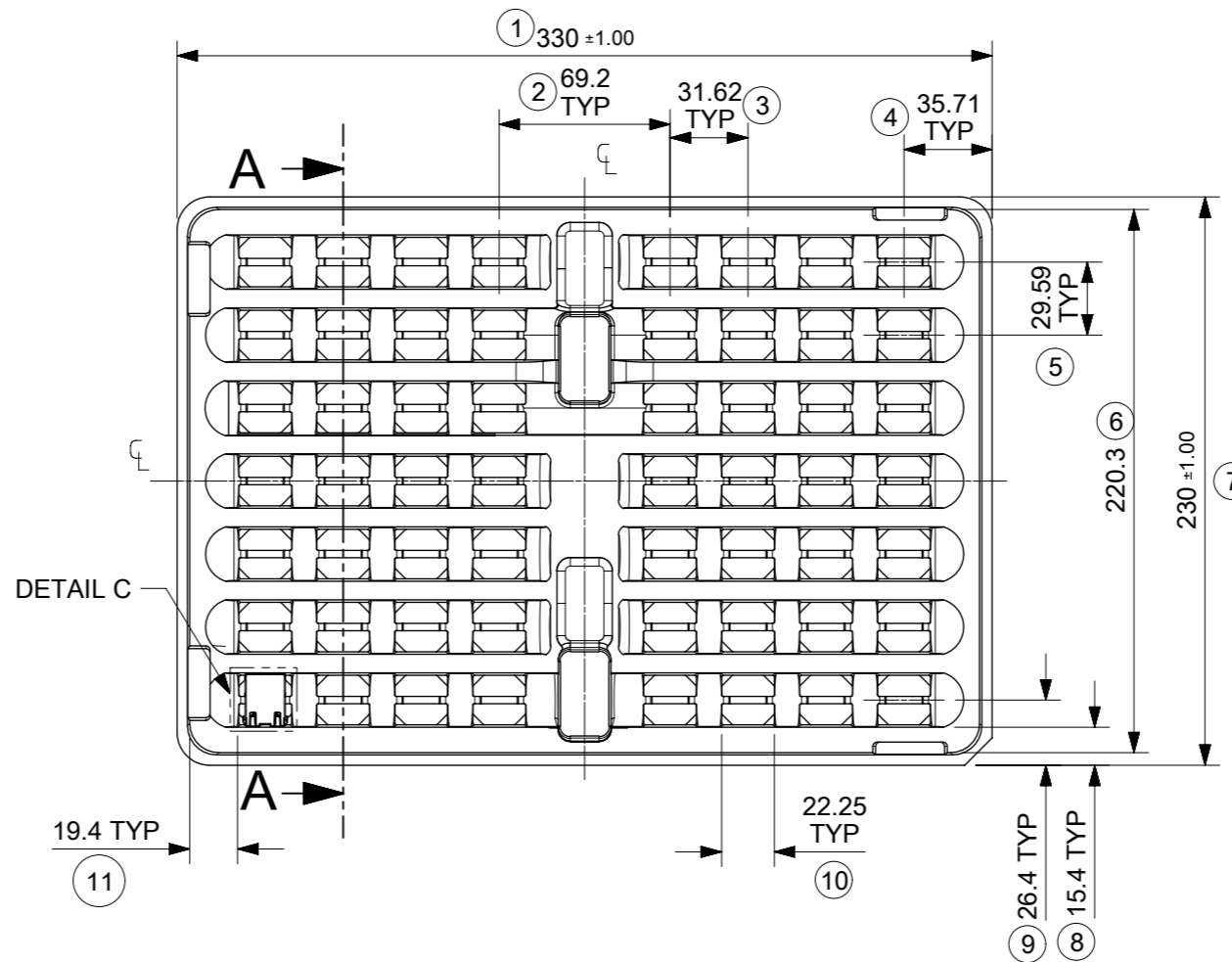
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED REFERENCE TO QUANTITY OF TRAYS PER STACK				<b>molex</b>	
mm		1:3							
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL ± 1.0°				EC NO: 602124		2018/09/07		MXMAG STANDARD AND INVERTED TRAY	
4 PLACES ±				DRWN: DSHEA		2019/01/25		PRODUCT CUSTOMER DRAWING	
3 PLACES ±				CHK'D: DBYRNES		2019/01/25		DOCUMENT NUMBER	
2 PLACES ± 0.2				APPR: DBYRNES		2019/01/25		934620003	
1 PLACE ± 0.5				INITIAL REVISION:		2016/05/06		DOC TYPE	
0 PLACES ±				DRWN: KREILLY		2016/12/07		PSD	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		DOC PART	
		A3-SIZE		SERIES		MATERIAL NUMBER		REVISION	
		93462		990250150		GENERAL MARKET		K B	
								SHEET NUMBER	
								1 OF 1	



DETAIL B



DETAIL C  
SCALE 2:1



NOTES:

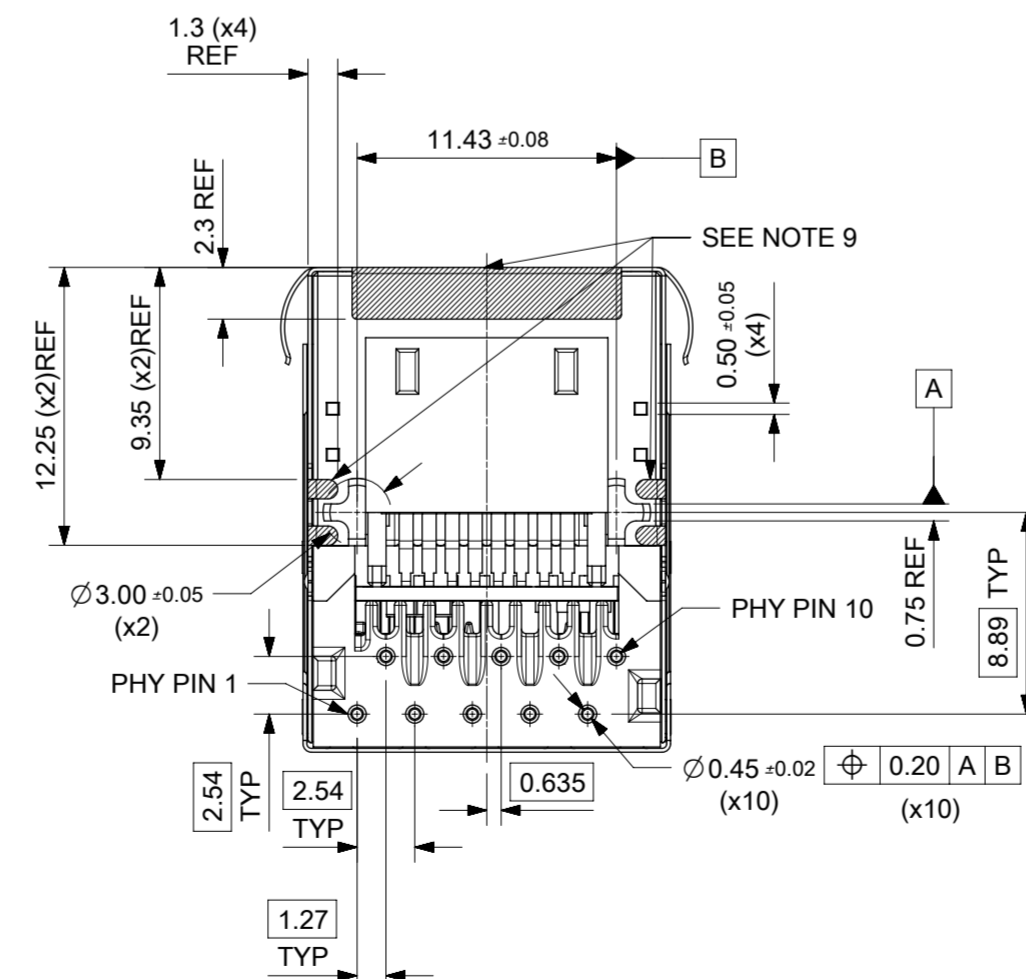
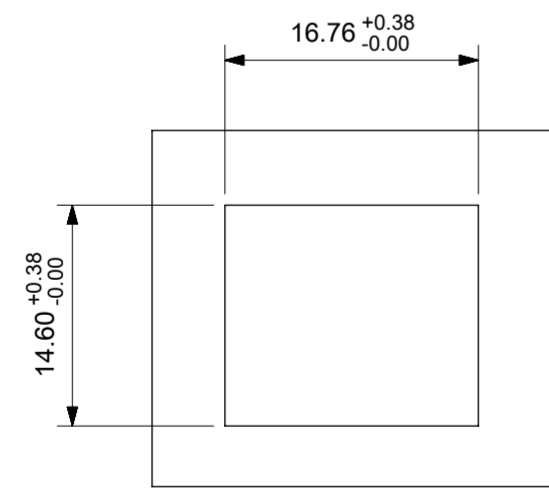
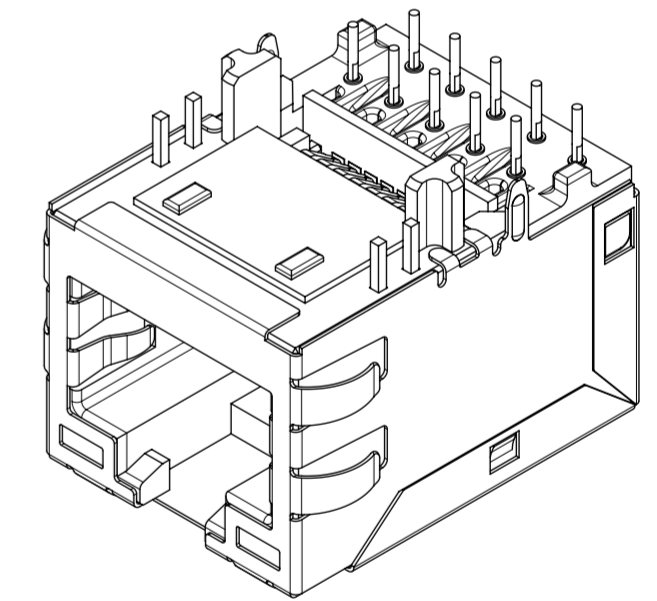
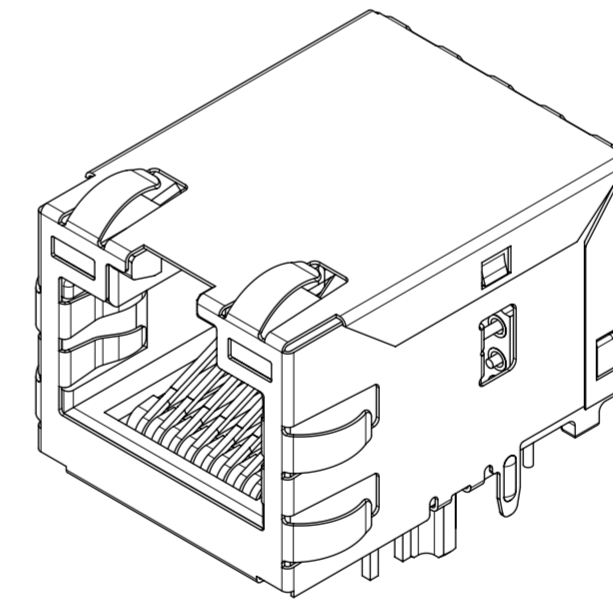
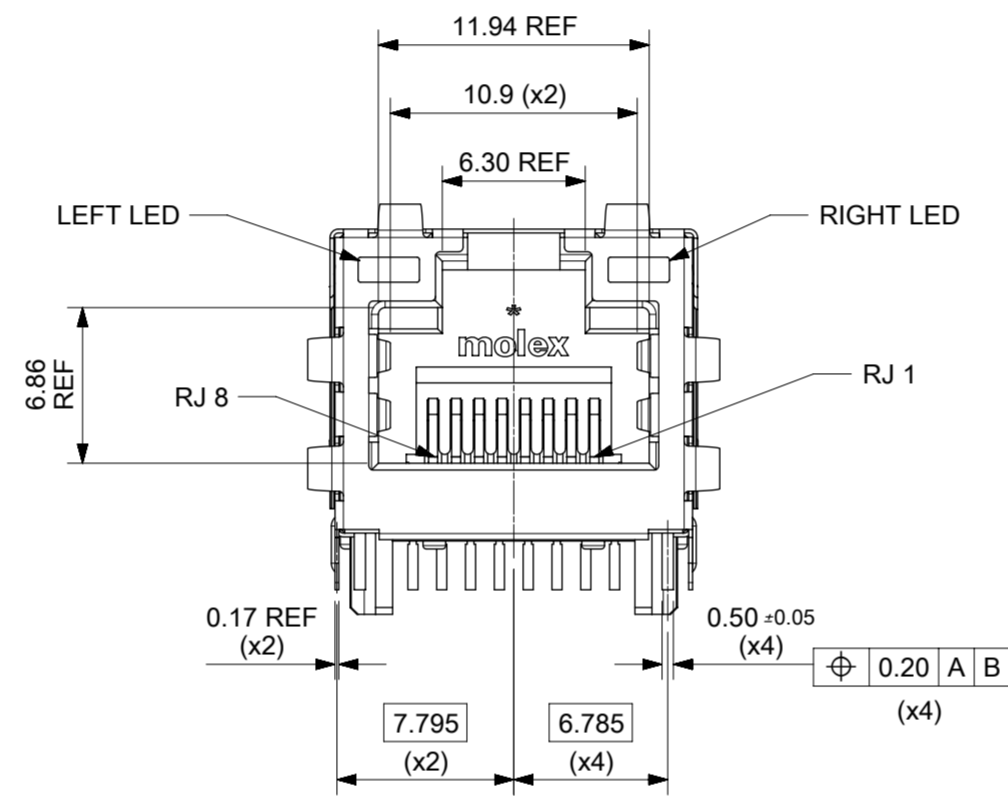
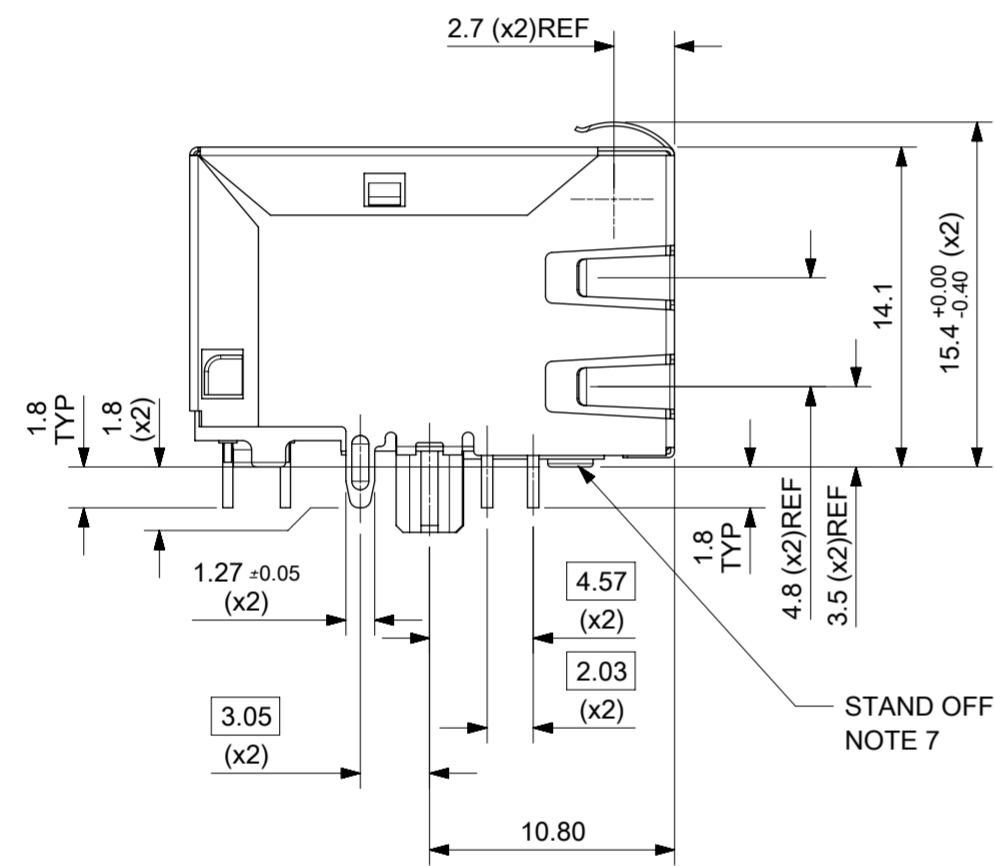
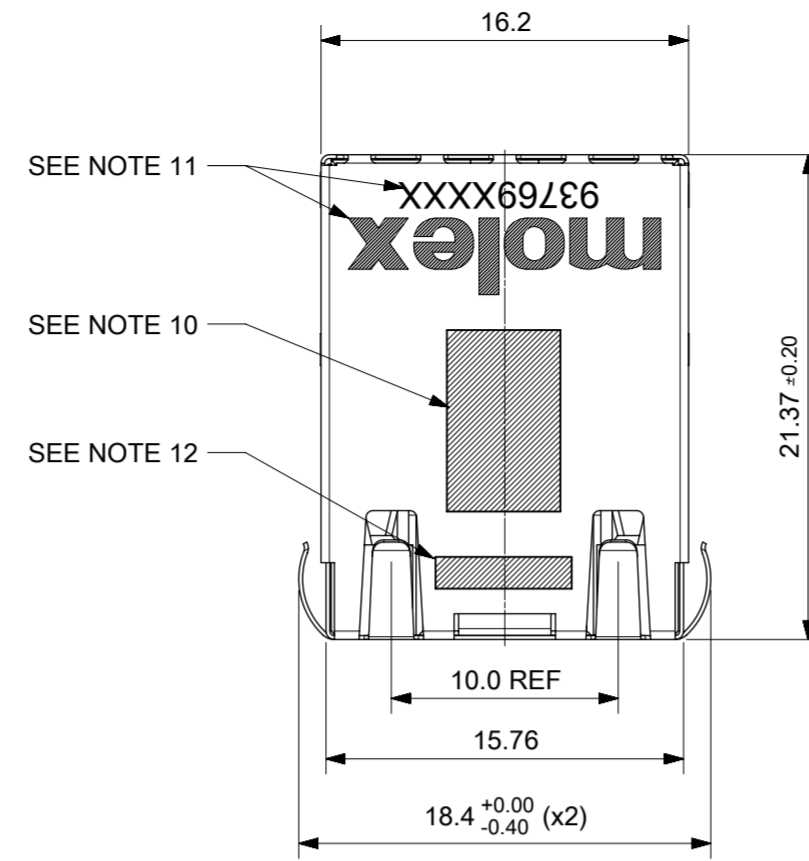
1. MATERIAL: PETA ANTISTATIC
2. THICKNESS: 0.9 mm ± 0.05 mm
3. COLOUR: CLEAR
4. BOW 2 mm MAXIMUM PER 330 mm
5. TWIST 2 mm MAXIMUM PER 330 mm
6. TRAY PART NO. AND RECYCLE LOGO TO BE CLEARLY MARKED ON TRAY  
RECYCLE LOGO SHOULD BE APPROPRIATE TO MATERIAL USED
7. WHERE RELEVANT, DIMENSIONS SHOULD BE SYMMETRICAL ABOUT THE CENTRELINE
8. GENERAL PROFILE TOLERANCE  $\overline{\cup}$  0.40 ON NON DIMENSIONED FEATURES

LAST INSPECTION NUMBER USED: 12

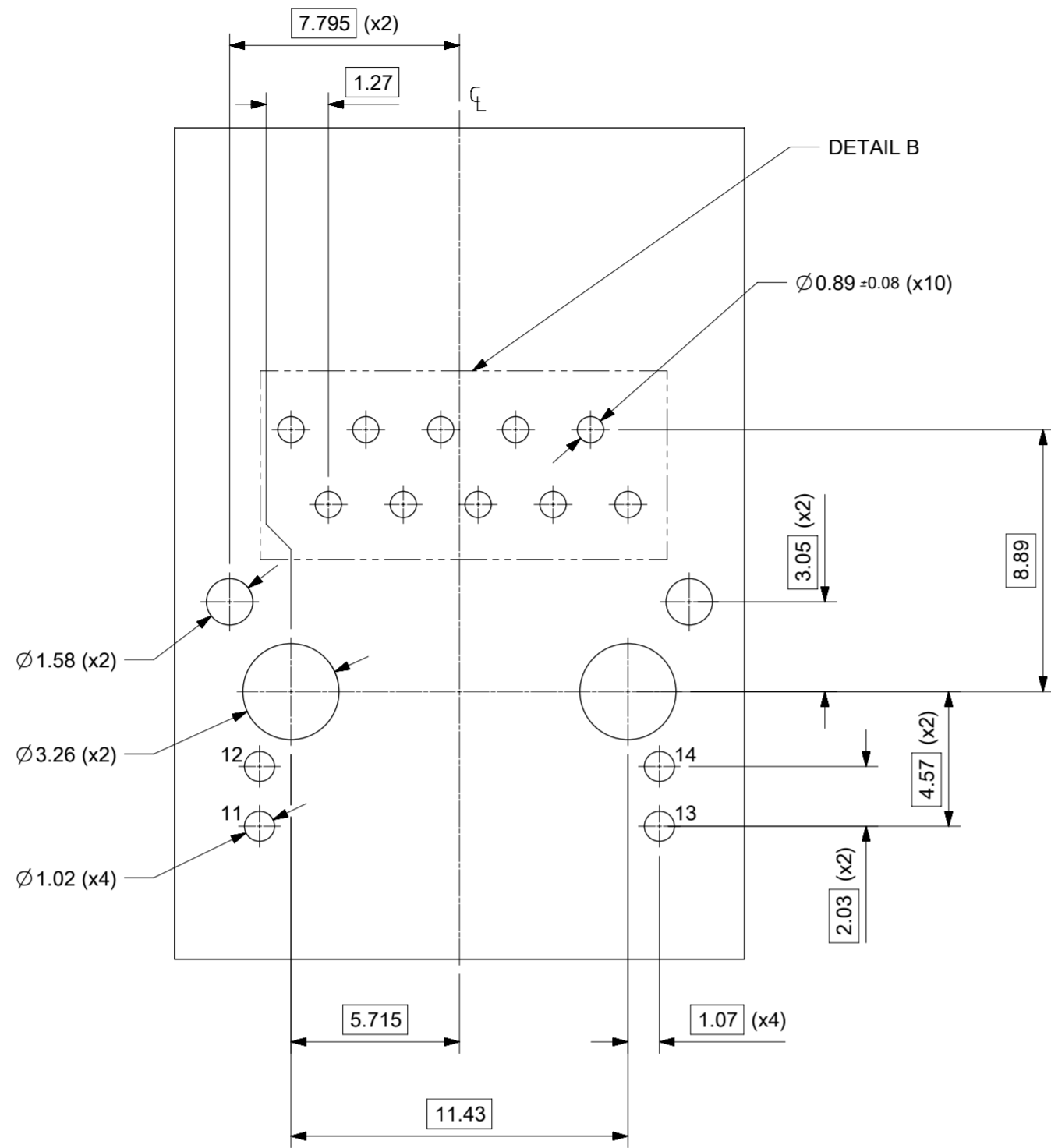
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED REFERENCE TO QUANTITY OF TRAYS PER STACK				<b>molex</b>	
mm		1:3							
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 602124				MXMAG STANDARD AND INVERTED TRAY	
ANGULAR TOL ± 1.0°				DRWN: DSHEA		2018/09/07			
4 PLACES ±				CHK'D: DBYRNES		2019/01/25			
3 PLACES ±				APPR: DBYRNES		2019/01/25			
2 PLACES ± 0.2				INITIAL REVISION:				PRODUCT CUSTOMER DRAWING	
1 PLACE ± 0.5				DRWN: KREILLY		2016/05/06		DOCUMENT NUMBER	
0 PLACES ±				APPR: STGRIFFIN		2016/12/07		934620003	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER	
				A3-SIZE		93462		990250150	
				CUSTOMER		GENERAL MARKET		SHEET NUMBER	
								1 OF 1	

INVERTED PROFILE MAGNETIC JACK  
GIGABIT ETHERNET W/LED  
AND W/SHIELD TABS  
PIN IN PASTE CAPABLE

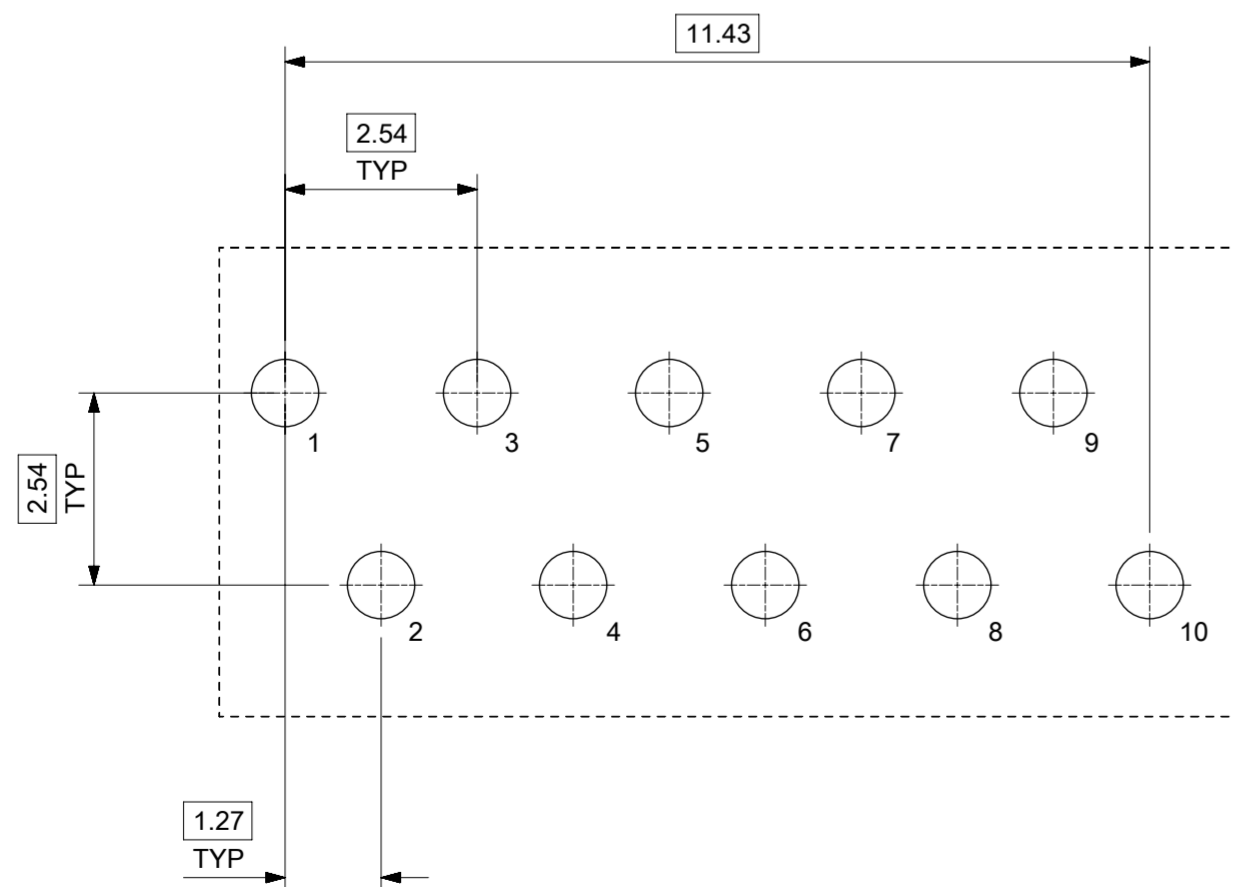
- NOTES:
- SHIELD MATERIAL: 0.17 mm THICK BRASS PRE-PLATED WITH NICKEL  
SOLDER TABS POST DIPPED WITH MIN 1.27 μm TIN.
  - HOUSING MATERIAL: LCP, BLACK, UL 94V-0
  - TERMINALS MATERIAL: PHOSPHOR BRONZE  
RJ45 CONTACTS PLATING: BASE NICKEL PLATED WITH GOLD  
FLASH OVER PALLADIUM NICKEL. REFER TO 934620001 PSP  
PHY SOLDER TAILS: COPPER ALLOY
  - MATING INTERFACE ACCORDING TO IEC 60603-7 & TIA-1096-A
  - PRODUCT SPECIFICATION: 934620001 PSD
  - PACKAGING SPECIFICATION: 934620002 PSK TAPE & REEL  
TAPE & REEL DRAWING NUMBER: 934629001 PSD
  - STAND OFF TO SYSTEM BOARD 0.30 mm MIN
  - RECOMMENDED PCB THICKNESS: 1.57 mm
  - SHIELD: AVOID ROUTING TRACES  
OR PLACING ANY VIAS BELOW THESE AREAS
  - AREA FOR PICK AND PLACE: 5.0 mm X 8.0 mm
  - INSCRIPTION MARKED BY LASER:  
1st : MOLEX  
2nd : P/N (SEE BOM)
  - INSCRIPTION MARKED BY LASER:  
DATE CODE(DAY/WEEK/YEAR)



THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS		SCALE		CURRENT REV DESC: UPDATED TITLE					
mm		3:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)				<b>molex</b> INV PRO MXMAG 8 CORE GIG W/LED W/EMI PIP REFLOW CAPABLE PRODUCT CUSTOMER DRAWING					
ANGULAR TOL		± 2.0°							
4 PLACES		±							
3 PLACES		±							
2 PLACES		± 0.1							
1 PLACE		± 0.2		EC NO: 604273		2018/07/26		DRWN: DSHEA	
0 PLACES		±		CHK'D: SMCGREEVY		2018/08/15		APPR: DBYRNES	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES	
		A2-SIZE		93769		2016/03/14		2016/06/08	
DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION			
937690001		PSD		000		D			
MATERIAL NUMBER		CUSTOMER		SHEET NUMBER					
SEE TABLE ON SHEET 2		GENERAL MARKET		1 OF 3					



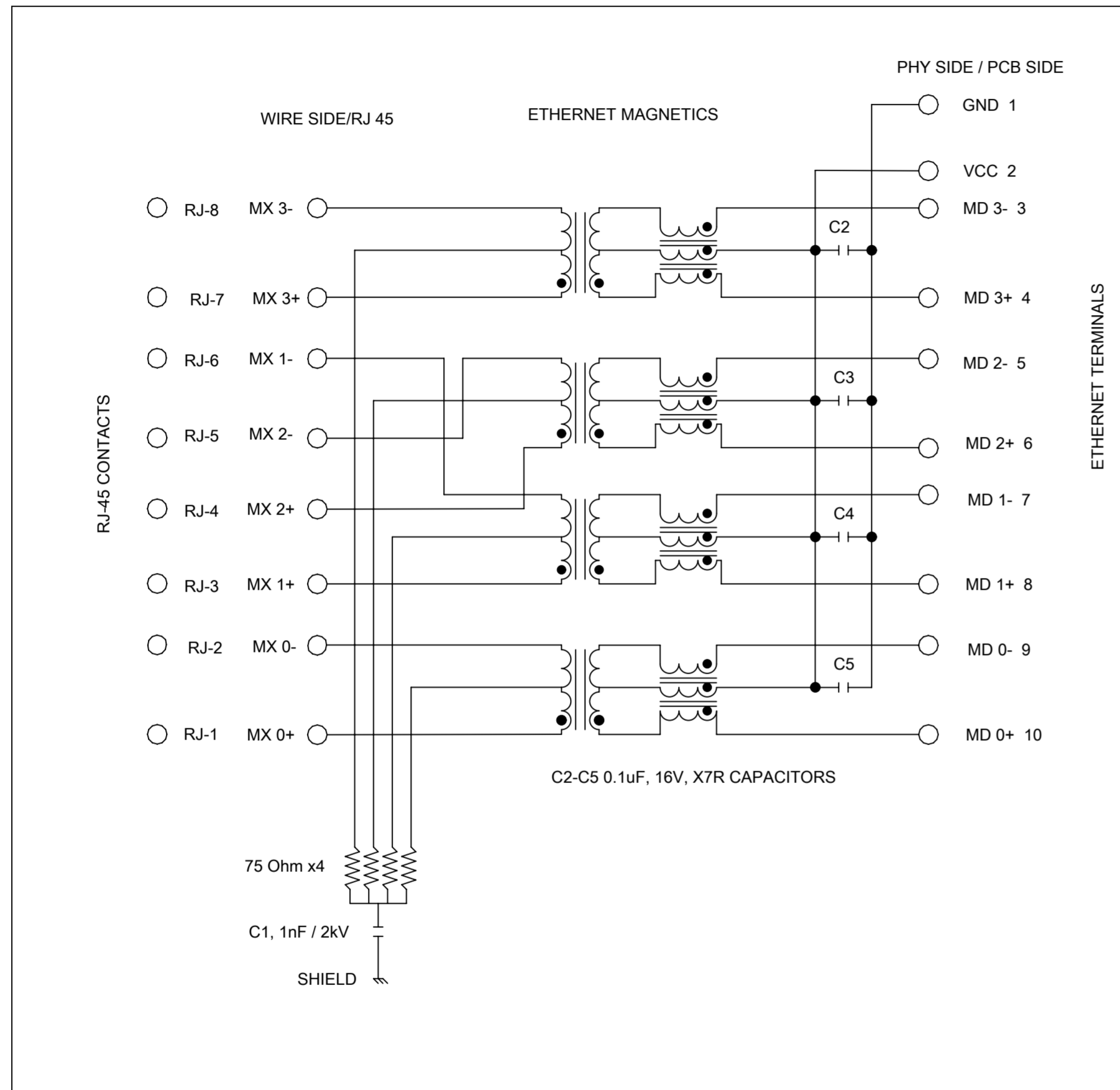
SUGGESTED BOARD LAYOUT  
GIGABIT VERSION  
COMPONENT SIDE  
ALL DIMS REFERENCE DIMS



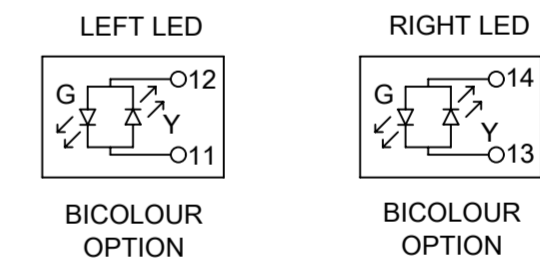
DETAIL B  
SCALE 10:1  
PIN CONFIGURATION  
FOR GIGABIT VERSION

PART NUMBER	LEFT LED	RIGHT LED
937698628	GREEN/YELLOW	GREEN/YELLOW

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DIMENSION UNITS	SCALE	CURRENT REV DESC: UPDATED TITLE								
mm	5:1									
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 604273					INV PRO MXMAG 8 CORE GIG W/LED W/EMI PIP REFLOW CAPABLE			
ANGULAR TOL ± 2.0°		DRWN: DSHEA 2018/07/26								
4 PLACES ±		CHK'D: SMCGREEVY 2018/08/15					PRODUCT CUSTOMER DRAWING			
3 PLACES ±		APPR: DBYRNES 2019/09/25								
2 PLACES ± 0.1		INITIAL REVISION:					DOCUMENT NUMBER <b>937690001</b>			
1 PLACE ± 0.2		DRWN: KREILLY 2016/03/14								
0 PLACES ±		APPR: STGRIFFIN 2016/06/08					DOC TYPE DOC PART REVISION PSD 000 D			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER				
			A2-SIZE	93769	SEE TABLE	GENERAL MARKET	2 OF 3			



Description	Value	
OCL @100 kHz, 0.1 V, 8 mA DC bias (-40°C to +85°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 sec	



937698628

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DIMENSION UNITS	SCALE	CURRENT REV DESC: UPDATED TITLE							
mm	1:1								
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 604273			<b>INV PRO MXMAG 8 CORE GIG W/LED W/EMI PIP REFLOW CAPABLE</b>				
ANGULAR TOL	± 2.0°	DRWN: DSHEA 2018/07/26							
4 PLACES	±	CHK'D: SMCGREEVY 2018/08/15			<b>PRODUCT CUSTOMER DRAWING</b>				
3 PLACES	±	APPR: DBYRNES 2019/09/25							
2 PLACES	± 0.1	INITIAL REVISION:			<b>DOCUMENT NUMBER</b> <b>937690001</b>				
1 PLACE	± 0.2	DRWN: KREILLY 2016/03/14							
0 PLACES	±	APPR: STGRIFFIN 2016/06/08			<b>DOC TYPE</b>   <b>DOC PART</b>   <b>REVISION</b> <b>PSD</b>   <b>000</b>   <b>D</b>				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER					
		A2-SIZE	93769	SEE TABLE ON SHEET 2	GENERAL MARKET	3 OF 3			