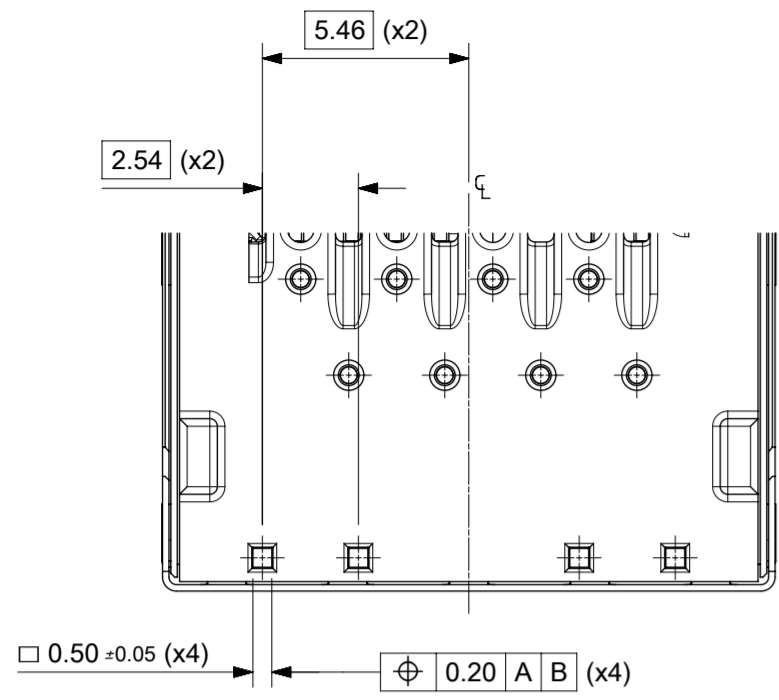
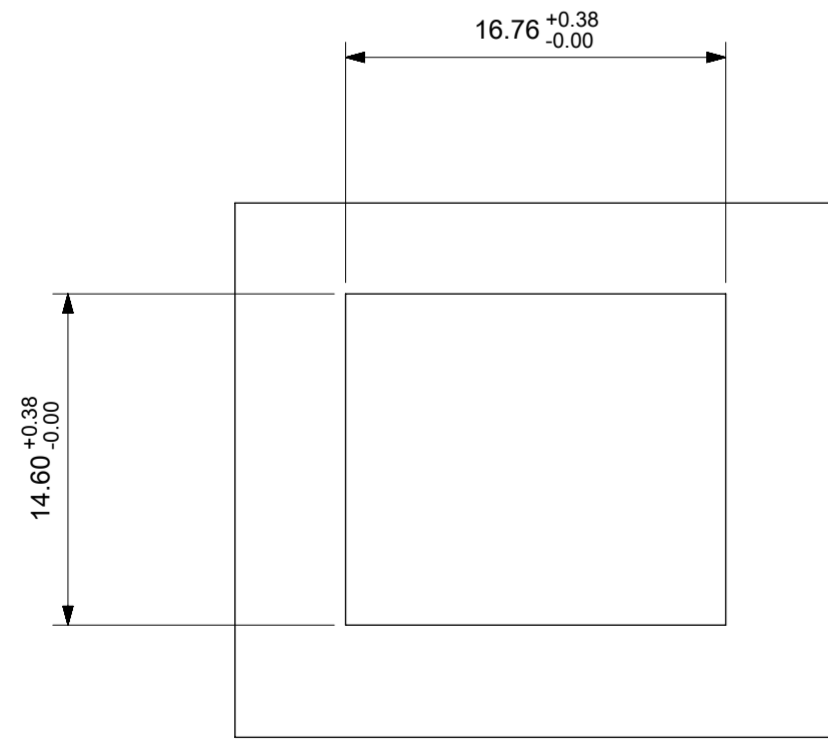
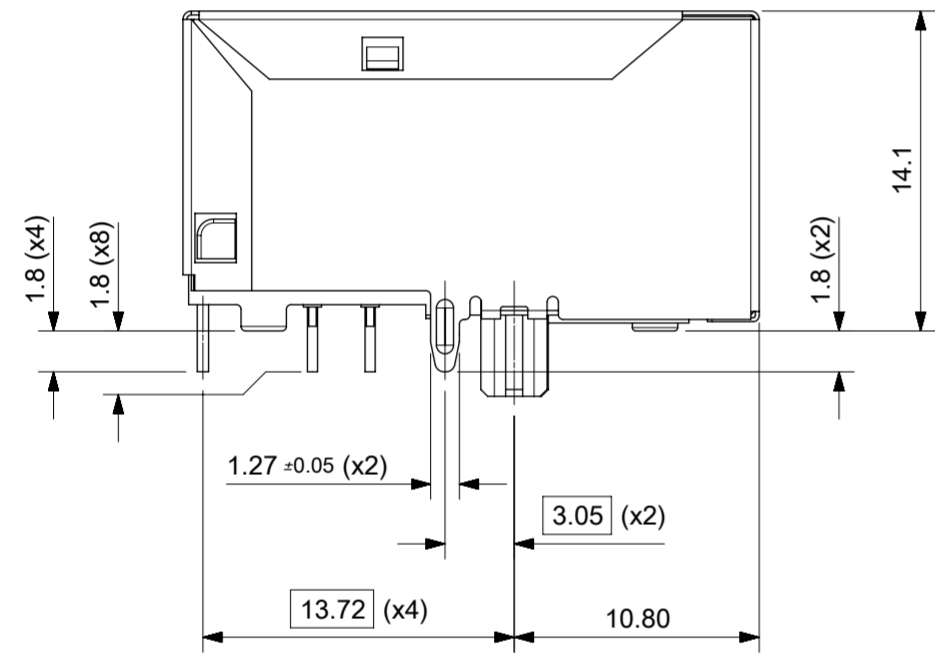


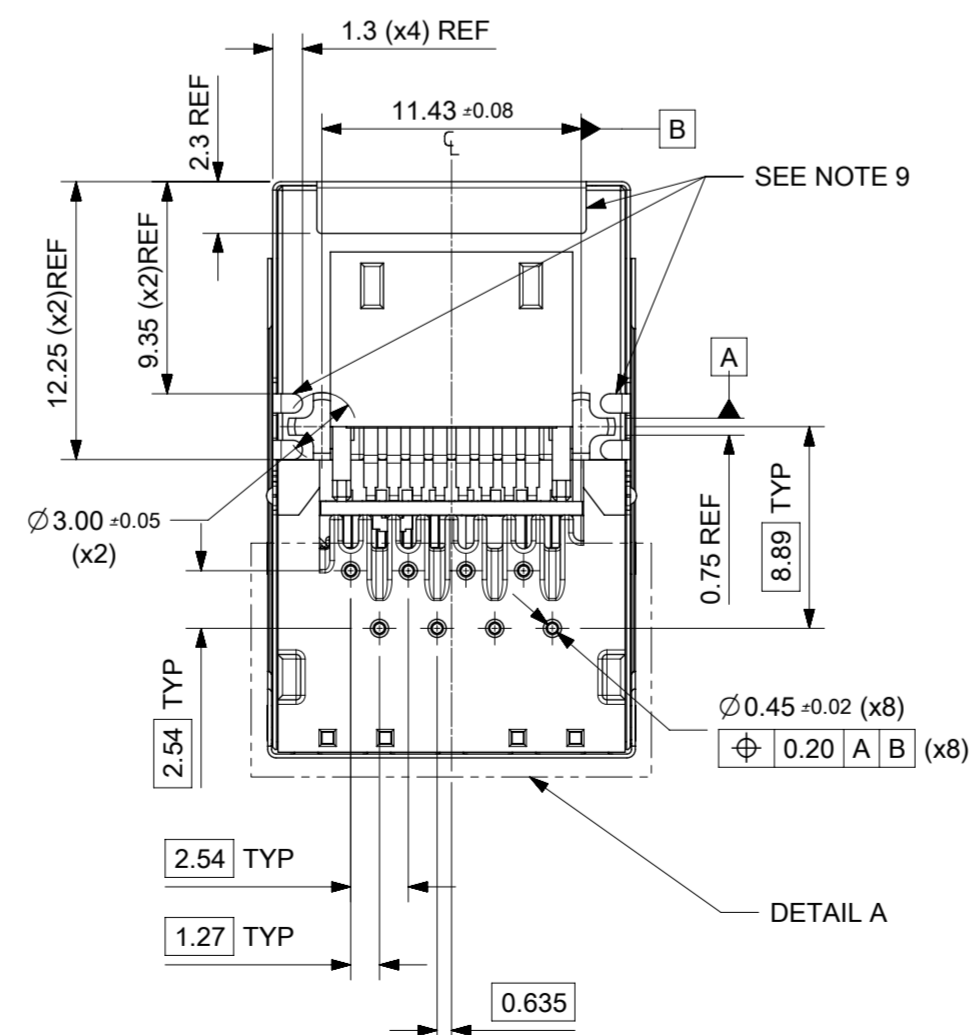
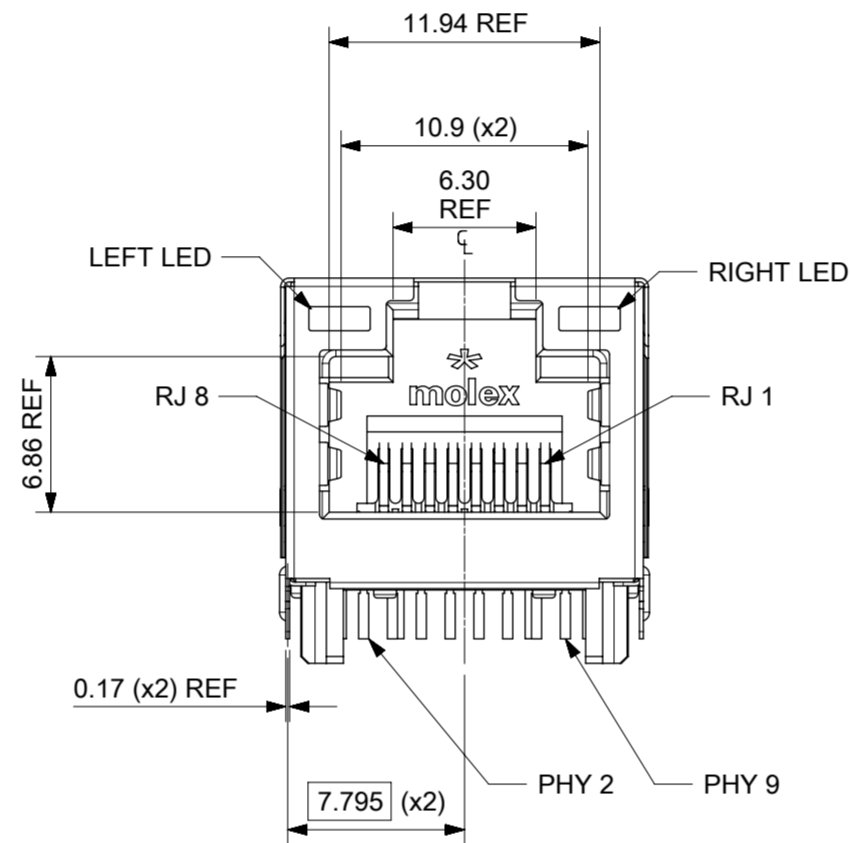
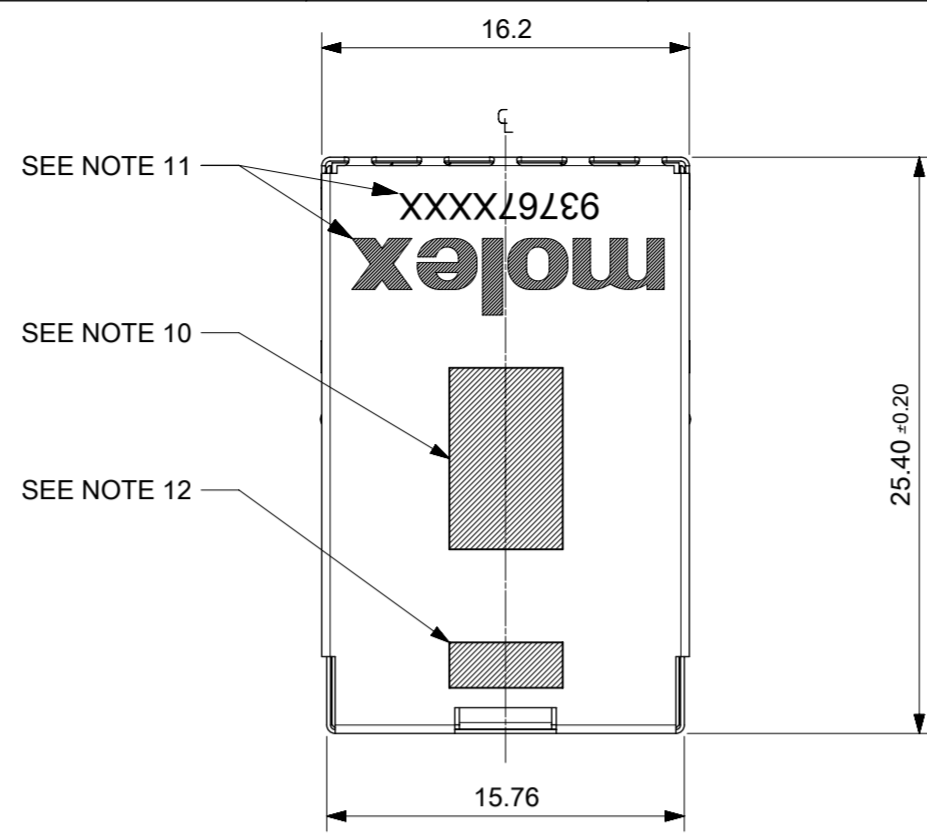
INVERTED PROFILE MAGNETIC JACK
FAST ETHERNET W/LED



DETAIL A
SCALE 5:1

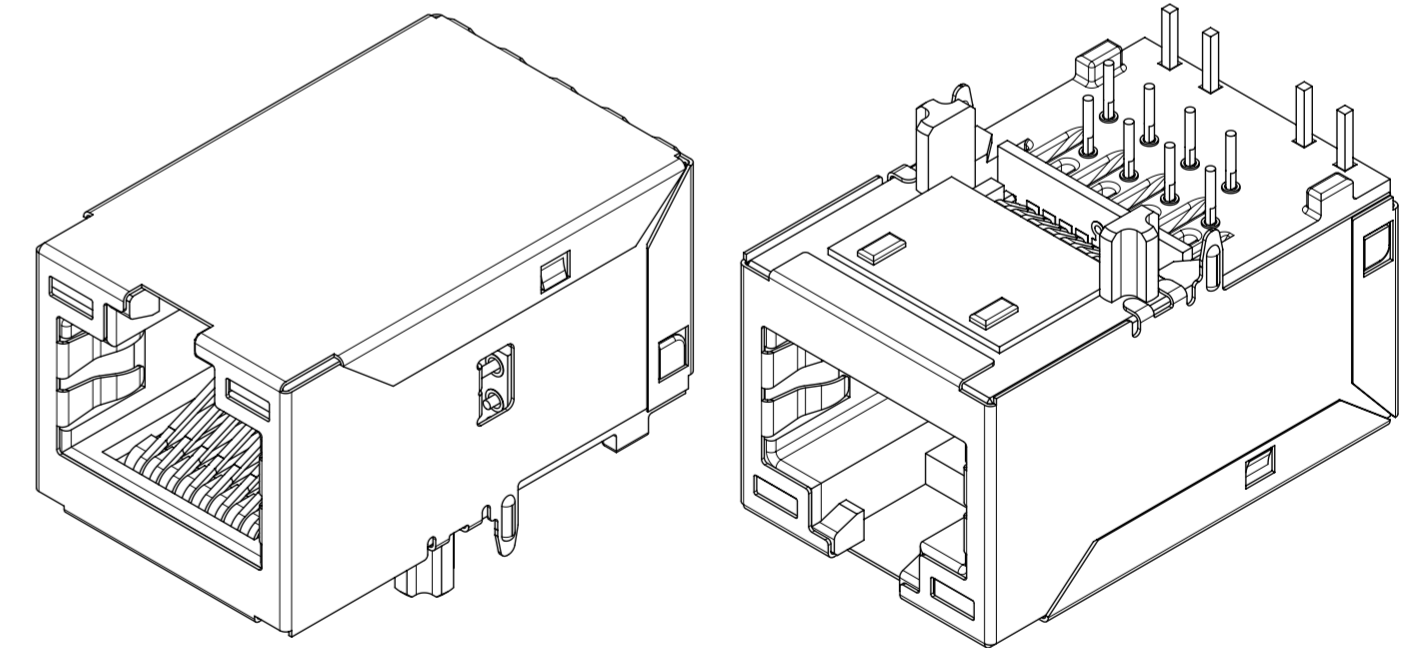



SUGGESTED PANEL OUT-OUT

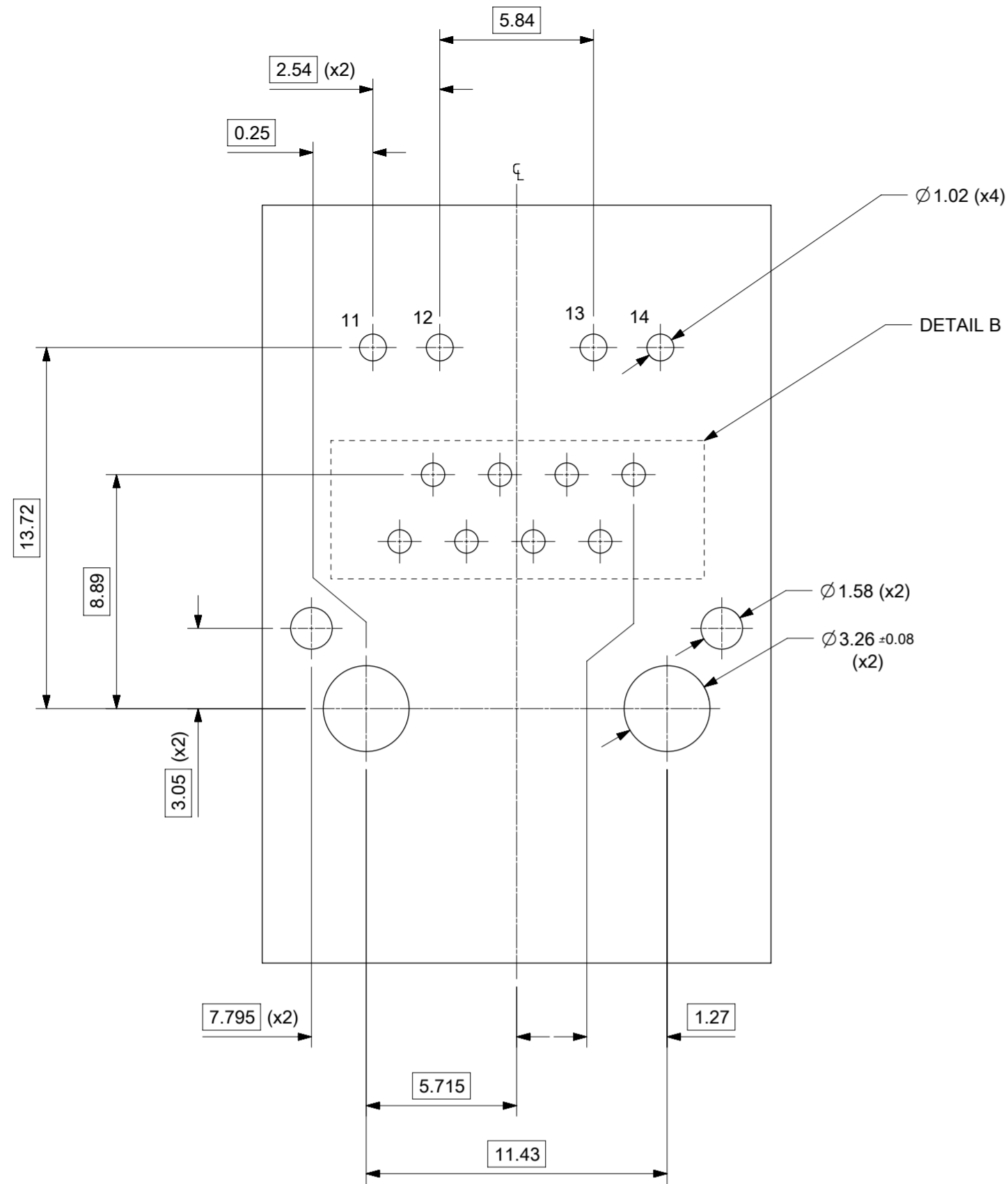


NOTES:

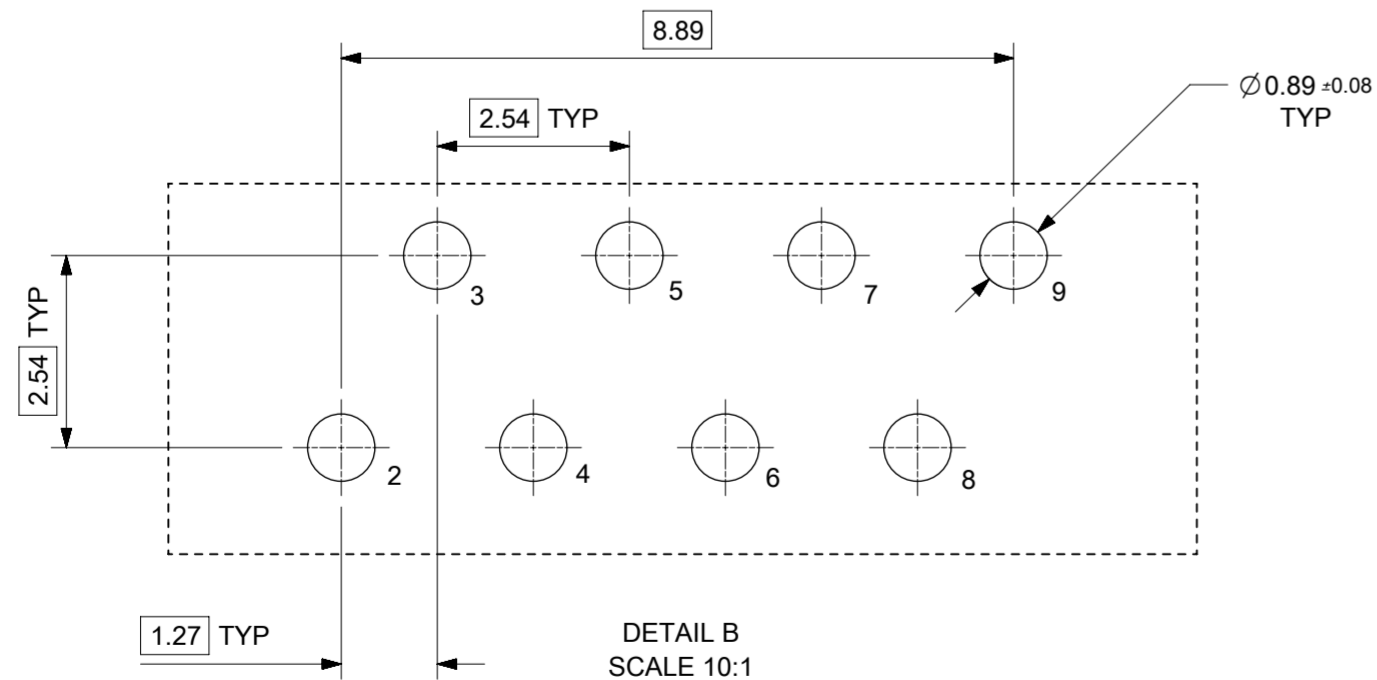
- 1 - SHIELD MATERIAL: 0.17MM THICK BRASS PRE-PLATED WITH NICKEL.
SOLDER TABS POST DIPPED WITH MIN. 1.27µm TIN
- 2 - HOUSING MATERIAL: LCP, BLACK, UL 94V-0.
- 3 - TERMINALS MATERIAL: PHOSPHOR BRONZE.
RJ45 CONTACT PLATING: BASE NICKEL, GOLD FLASH OVER PALLADIUM NICKEL.
PHY SOLDER TAILS: COPPER ALLOY REFER TO 934620001 PSP.
- 4 - MATING INTERFACE ACCORDING TO IEC 60603-7 & TIA-1096-A.
- 5 - PRODUCT SPECIFICATION: 934620001 PSP.
- 6 - PACKAGING SPECIFICATION: 934620002 PSK TAPE & REEL.
TAPE AND REEL DRAWING NUMBER: 990449058 PSDK
- 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
2nd : P/N (SEE BOM)
- 12 - 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 mm		SCALE 3:1		CURRENT REV DESC: UPDATED TITLE									
GENERAL TOLERANCES (UNLESS SPECIFIED)				 1" MXMAG 4 CORE FE IND REFLOW CAPABLE									
ANGULAR TOL ± 2.0°		4 PLACES ±								EC NO: 604273		2018/07/26	
3 PLACES ±		2 PLACES ± 0.1								DRWN: DSHEA		2018/08/15	
1 PLACE ± 0.2		0 PLACES ±								CHK'D: SMCGREEVY		2019/09/25	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION								DRAWING		SERIES	
PRODUCT CUSTOMER DRAWING		INITIAL REVISION:		APPR: DBYRNES		2016/07/01		DOCUMENT NUMBER					
1 OF 3		A2-SIZE		93767		2016/09/23		937670002					
MATERIAL NUMBER		CUSTOMER		SHEET NUMBER		DOC TYPE		DOC PART					
SEE TABLE ON SHEET 2		GENERAL MARKET		1 OF 3		PSD		000					



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



PIN CONFIGURATION
FOR FAST ETHERNET

PART NUMBER	LEFT LED	RIGHT LED
937675126	GREEN	YELLOW

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DIMENSION UNITS	SCALE	CURRENT REV DESC: UPDATED TITLE							
mm	5:1								
GENERAL TOLERANCES (UNLESS SPECIFIED)					1" MXMAG 4 CORE FE IND REFLOW CAPABLE				
ANGULAR TOL	± 2.0°	EC NO: 604273							
4 PLACES	±	DRWN: DSHEA 2018/07/26							
3 PLACES	±	CHK'D: SMCGREEVY 2018/08/15							
2 PLACES	± 0.1	APPR: DBYRNES 2019/09/25							
1 PLACE	± 0.2	INITIAL REVISION:			PRODUCT CUSTOMER DRAWING				
0 PLACES	±	DRWN: DSHEA 2016/07/01			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
		APPR: STGRIFFIN 2016/09/23			937670002		PSD	000	C
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER		SHEET NUMBER		
		A2-SIZE	93767	SEE TABLE ON SHEET 2	GENERAL MARKET		2 OF 3		

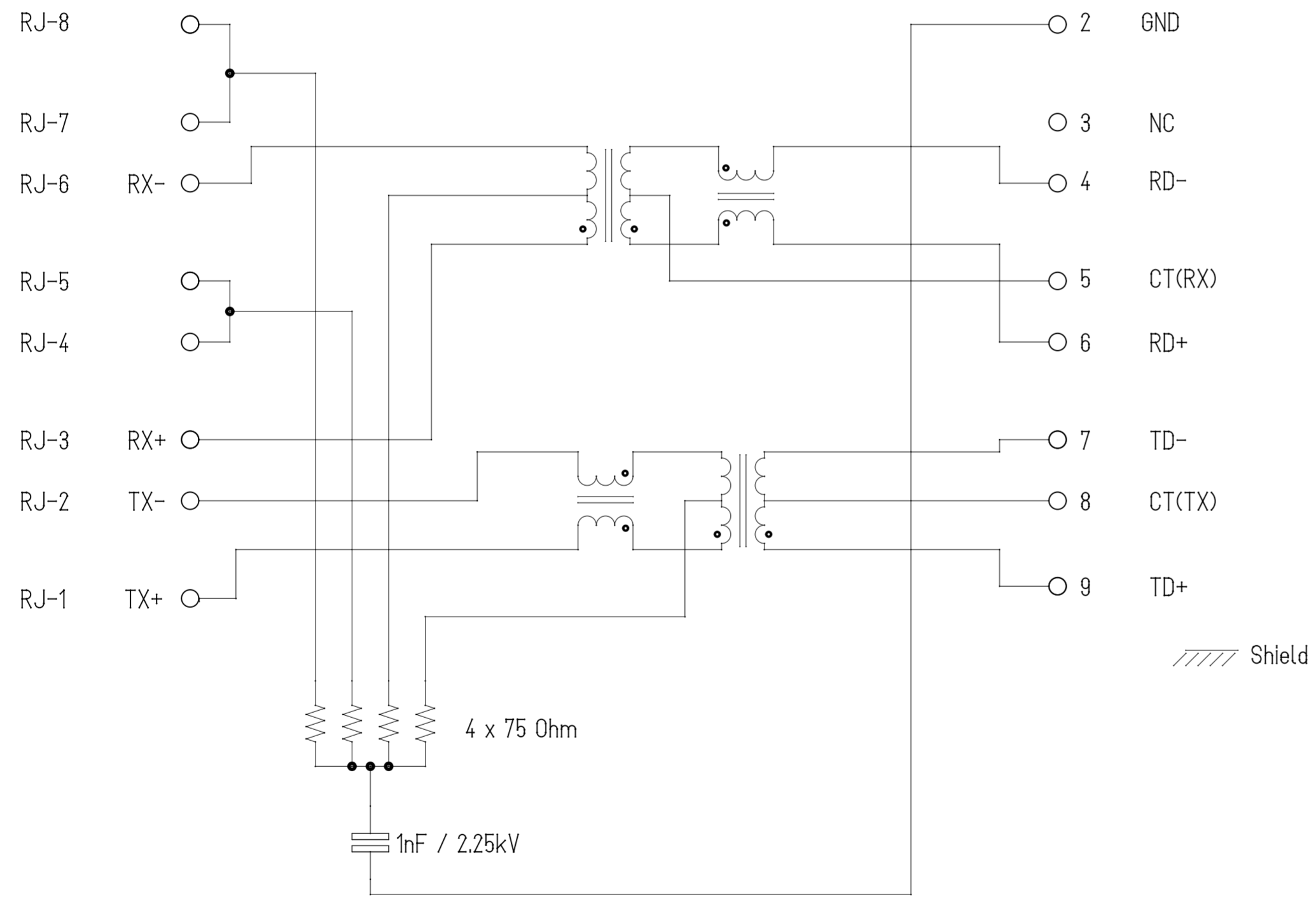
DOCUMENT STATUS	P1	RELEASE DATE	2019/09/25	12:10:11
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RJ-45 CONTACTS

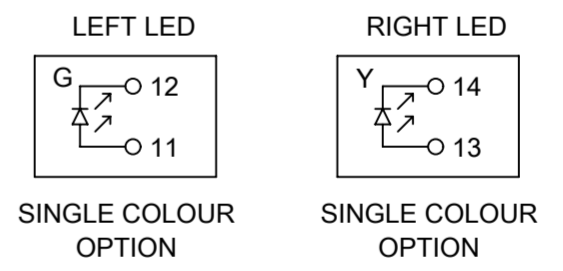
WIRE-SIDE / RJ-45

ETHERNET MAGNETICS

PHY-SIDE / PCB SIDE

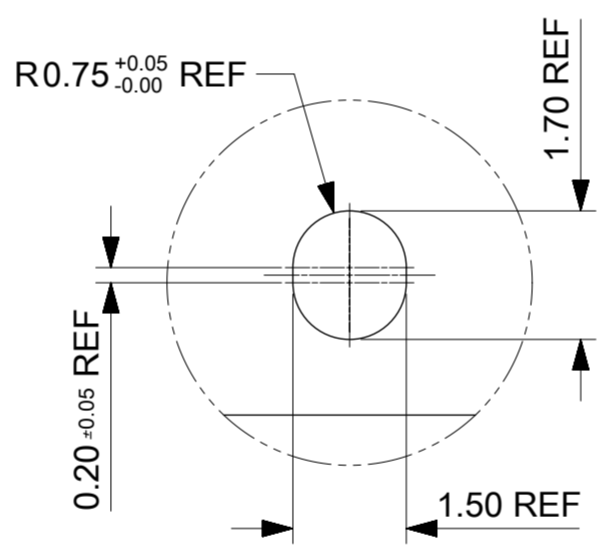
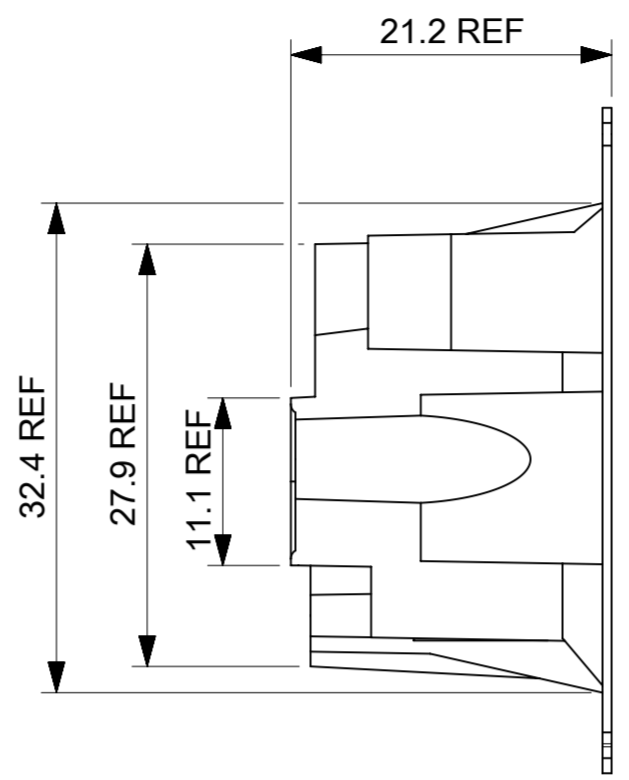
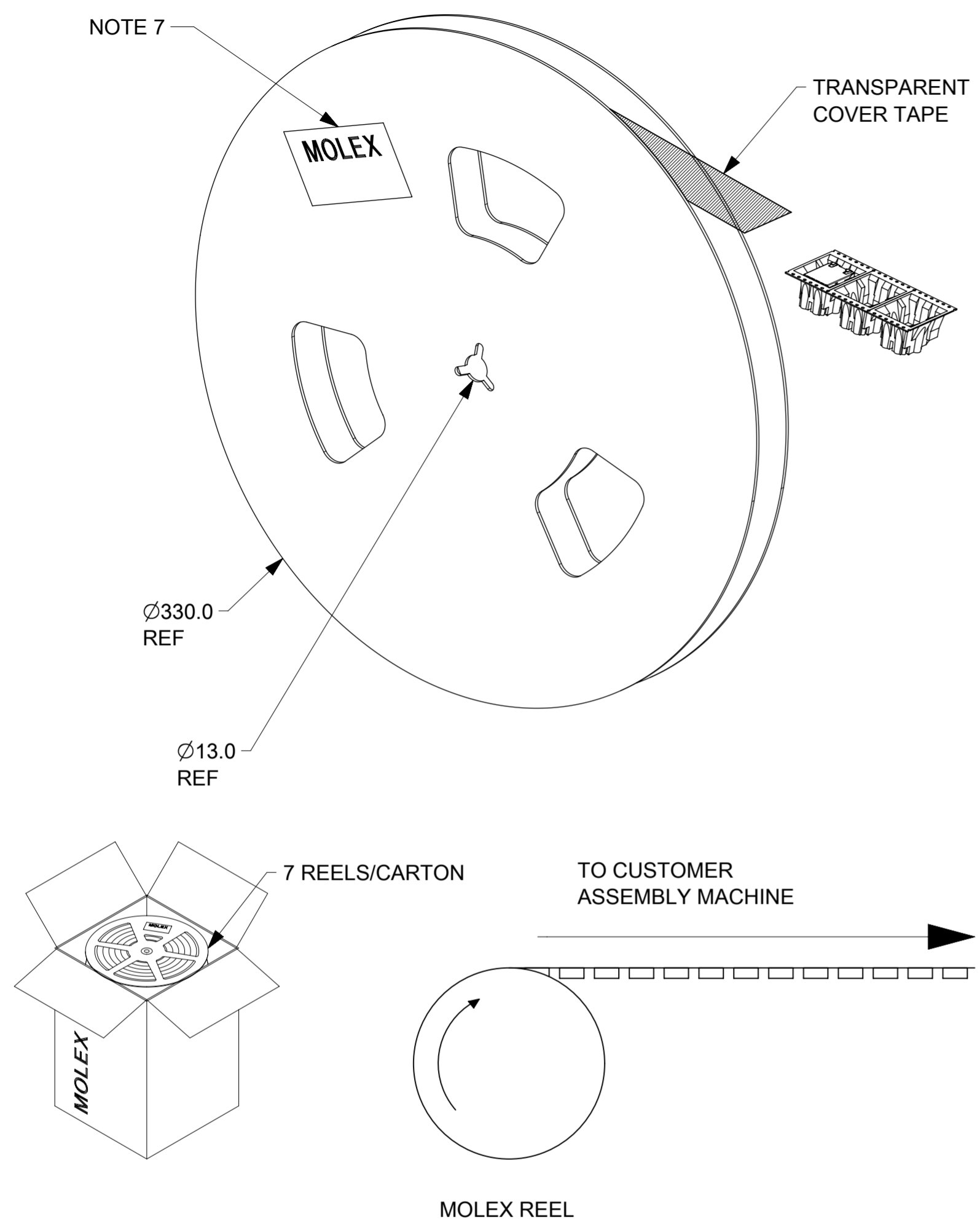


Description	Value	
OCL @100 kHz, 0.1 V, 8 mA DC bias (-40°C TO +85°C)	350 μH min.	
Turns ratio	1CT:1CT	
Transmission characteristics @ 25°C, all four pairs		
Insertion Loss		
Frequency f, (MHz)	Limits (dB max.)	Typical Values (dB max.)
1.0-9.9	0.4+0.1*log(f)	0.5 @ 10 MHz
10-49.9	0.5+0.3*log(f/10)	0.7 @ 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 s	

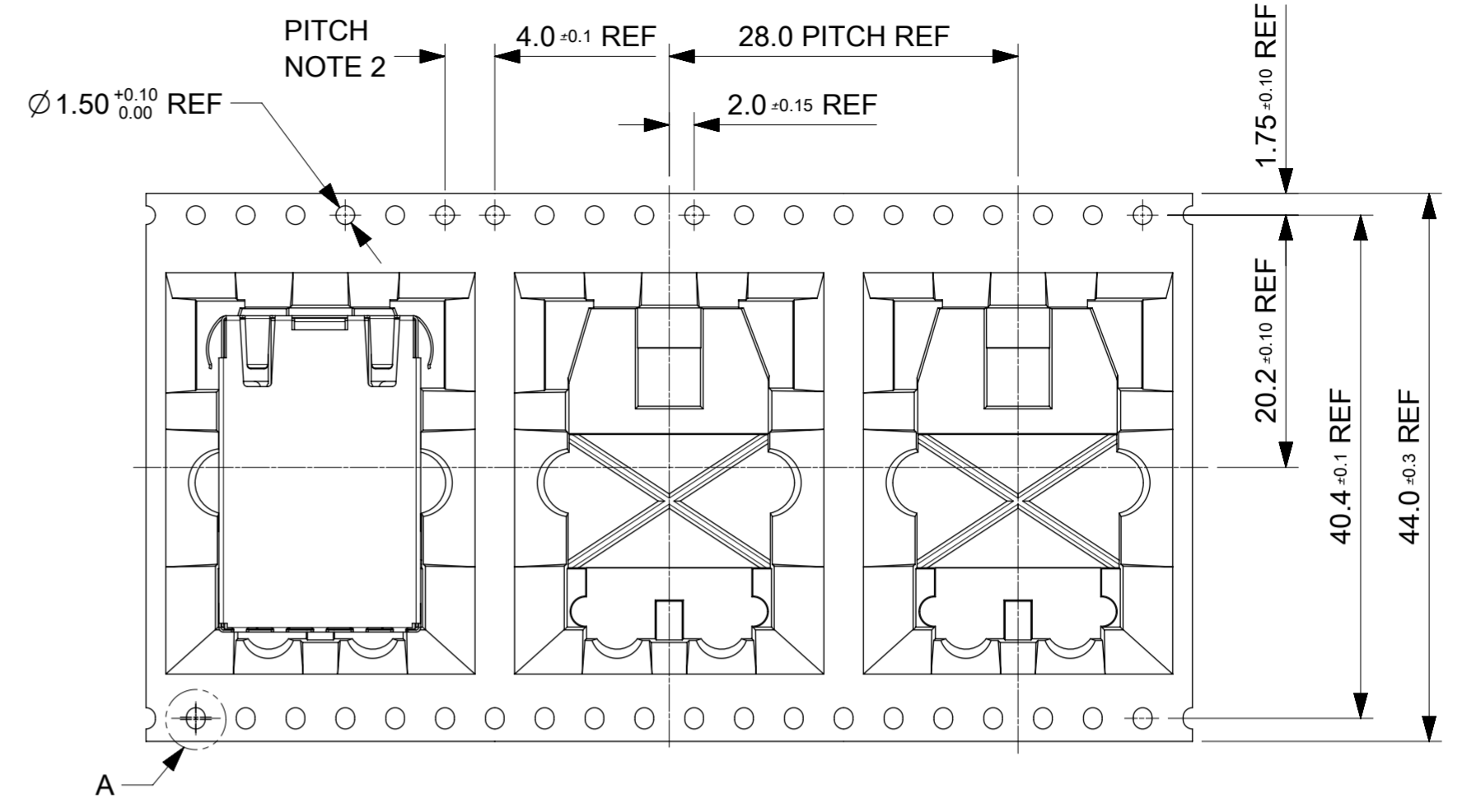


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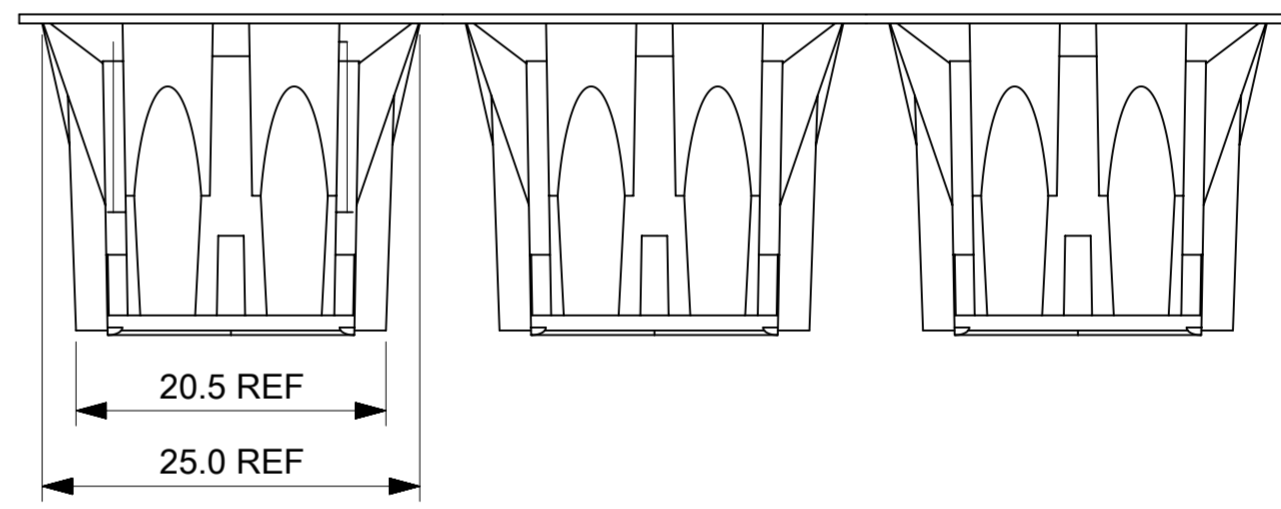
DIMENSION UNITS	SCALE	CURRENT REV DESC: UPDATED TITLE		molex			
mm	1:1						
GENERAL TOLERANCES (UNLESS SPECIFIED)				1" MXMAG 4 CORE FE IND REFLOW CAPABLE			
ANGULAR TOL	± 2.0°						
4 PLACES	±	EC NO: 604273		PRODUCT CUSTOMER DRAWING			
3 PLACES	±	DRWN: DSHEA 2018/07/26					
2 PLACES	± 0.1	CHK'D: SMCGREEVY 2018/08/15		DOCUMENT NUMBER			
1 PLACE	± 0.2	APPR: DBYRNES 2019/09/25					
0 PLACES	±	INITIAL REVISION:		937670002			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRWN: DSHEA 2016/07/01					
THIRD ANGLE PROJECTION		APPR: STGRIFFIN 2016/09/23		PSD		000	
DRAWING		SERIES		REVISION		C	
A2-SIZE		93767		MATERIAL NUMBER		SHEET NUMBER	
SEE TABLE ON SHEET 2		GENERAL MARKET		3 OF 3			



DETAIL A
SCALE 10:1



DIRECTION OF UNREELING →



BLISTER TAPE PART NO	PIECES/REEL	PIECES/CARTON	REELS/CARTON
990449058	107	749	7

- NOTES:
- MATERIAL:
CARRIER TAPE: VOLUME CONDUCTIVE POLYSTYRENE, 0.60 mm REF THICK, BLACK.
COVER TAPE: COLD SEAL POLYESTER, 0.06 mm REF THICK TRANSPARENT.
 - PITCH TOLERANCE OVER ANY 10 PITCHES ± 0.2 mm
 - PEEL FORCE OF COVER TAPE IS 0.1 N TO 1.3 N
AT A MAXIMUM SPEED OF 300 mm/min ± 10 mm/min
 - PACKAGING SPECIFICATION: 934620002 PSK.
 - REFERENCE TO IEC 60286-3 EXCEPT WHERE NOTED
 - LABELS SHALL BE PLACED ON THE EACH REEL AND ON THE CARTON
 - THE LABEL ON THE REEL SHALL BE PLACED ON THE OUTSIDE OF THE FLANGE
OPPOSITE THE ROUND SPROCKET HOLES
 - ALL DIMENSIONS ARE REFERENCE ONLY

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DIMENSION UNITS mm	SCALE 1:2	CURRENT REV DESC: ORIGINAL RELEASE		molex		
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 624501				
ANGULAR TOL ± 2.0°	4 PLACES ±	DRWN: DSHEA	2019/09/19	PRODUCT CUSTOMER DRAWING		
3 PLACES ±	2 PLACES ± 0.1	CHK'D: DBYRNES	2019/09/26	DOCUMENT NUMBER		
1 PLACE ± 0.2	0 PLACES ±	APPR: DBYRNES	2019/09/26	990449058		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	INITIAL REVISION: DRWN: DSHEA APPR: DBYRNES	2019/09/19 2019/09/26	MATERIAL NUMBER	CUSTOMER	DOC TYPE DOC PART REVISION
				99044	990449058	PSD K A
		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
		A2-SIZE	99044	990449058	GENERAL MARKET	1 OF 1