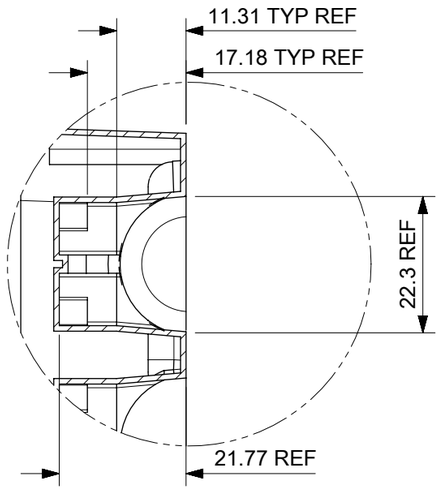
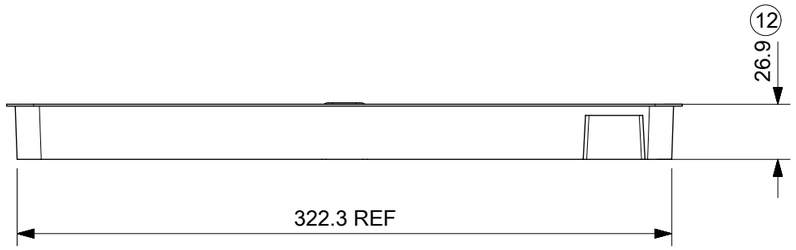
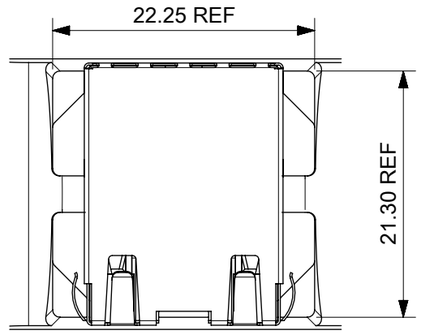
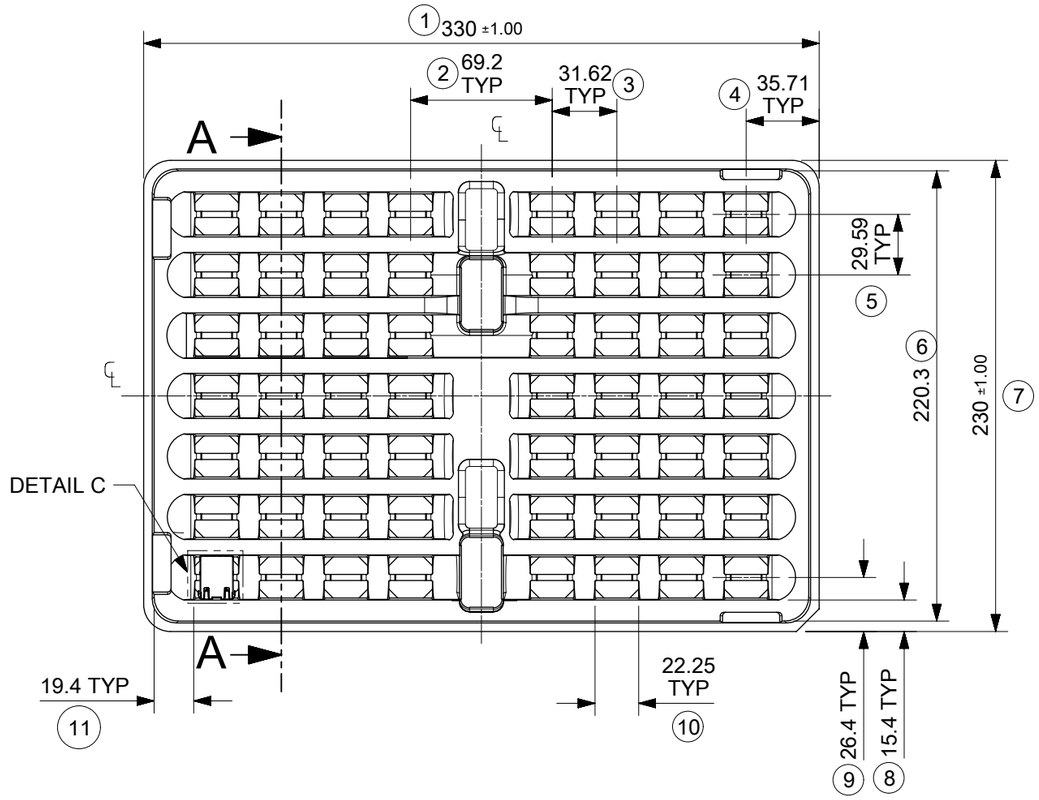


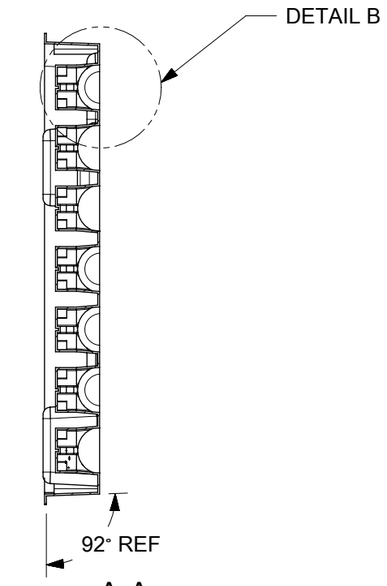
DETAIL B





DETAIL C
SCALE 2:1





SECTION A-A

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 ⌓ 0.40 ON NON DIMENSIONED FEATURES

LAST INSPECTION NUMBER USED: 12

DIMENSION UNITS	SCALE
mm	1:3

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	1.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.2
1 PLACE	±	0.5
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED REFERENCE TO QUANTITY OF TRAYS PER STACK

EC NO:	602124	
DRWN:	DSHEA	2018/09/07
CHK'D:	DBYRNES	2019/01/25
APPR:	DBYRNES	2019/01/25

INITIAL REVISION:

DRWN:	KREILLY	2016/05/06
APPR:	STGRIFFIN	2016/12/07

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 93462

molex

MXMAG STANDARD AND INVERTED TRAY

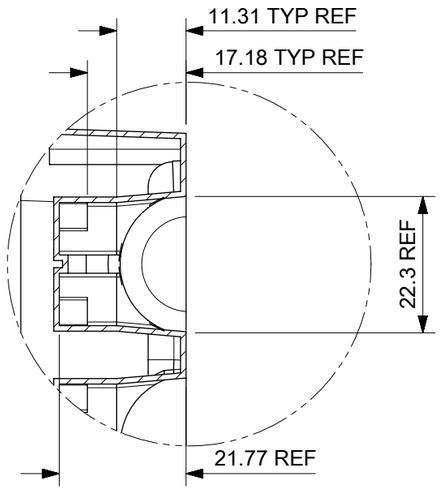
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
934620003	PSD	K	B

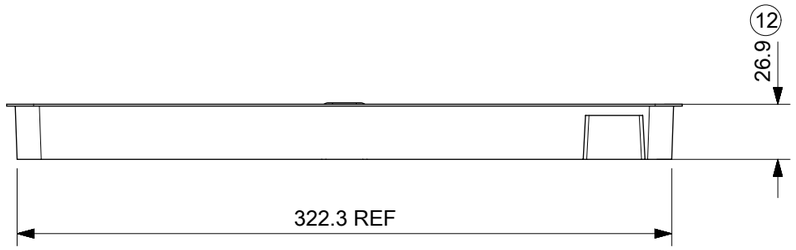
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
990250150	GENERAL MARKET	1 OF 1

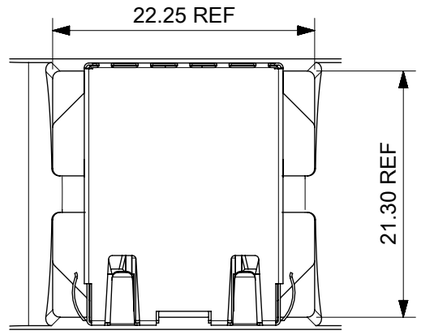
DOCUMENT STATUS	P1	RELEASE DATE	2019/01/25 10:12:55

FORMAT: master-tb-prod-A3
REVISION: H
DATE: 2018/01/18

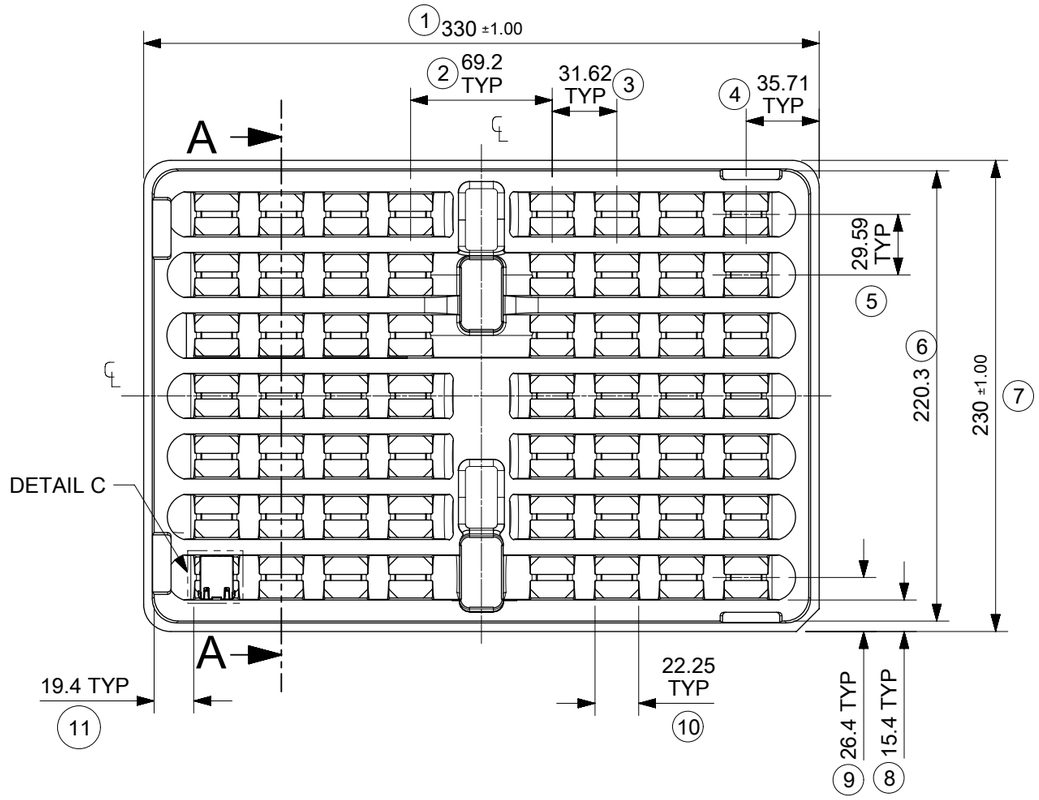


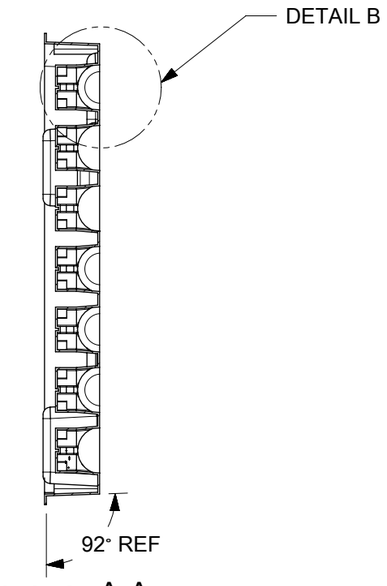
DETAIL B





DETAIL C
SCALE 2:1





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LAST INSPECTION NUMBER USED: 12

DIMENSION UNITS	SCALE
mm	1:3

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	1.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.2
1 PLACE	±	0.5
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED REFERENCE TO QUANTITY OF TRAYS PER STACK

EC NO:	602124	
DRWN:	DSHEA	2018/09/07
CHK'D:	DBYRNES	2019/01/25
APPR:	DBYRNES	2019/01/25

INITIAL REVISION:

DRWN:	KREILLY	2016/05/06
APPR:	STGRIFFIN	2016/12/07

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 93462

molex

MXMAG STANDARD AND INVERTED TRAY

PRODUCT CUSTOMER DRAWING

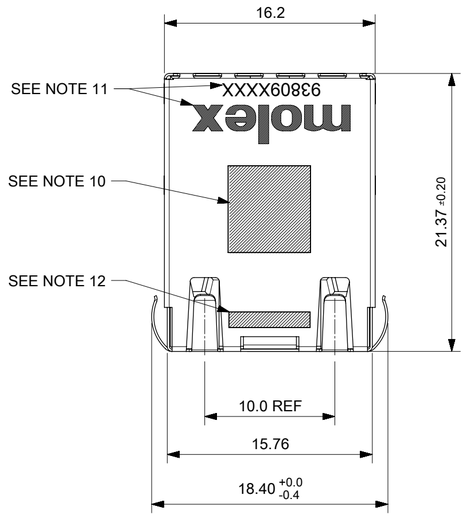
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
934620003	PSD	K	B

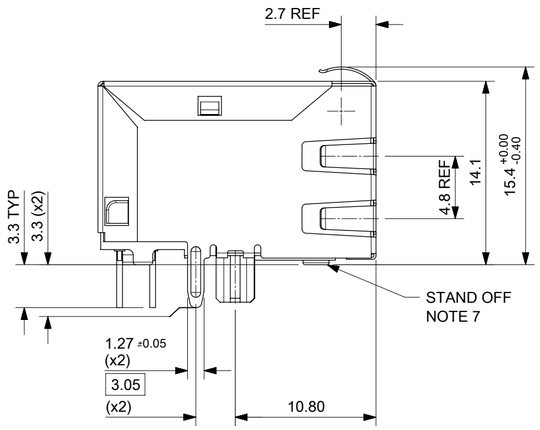
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
990250150	GENERAL MARKET	1 OF 1

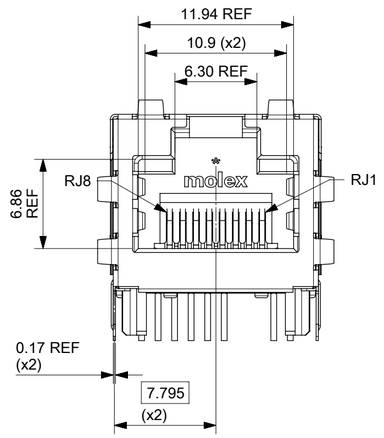
DOCUMENT STATUS	P1	RELEASE DATE	2019/01/25 10:12:55

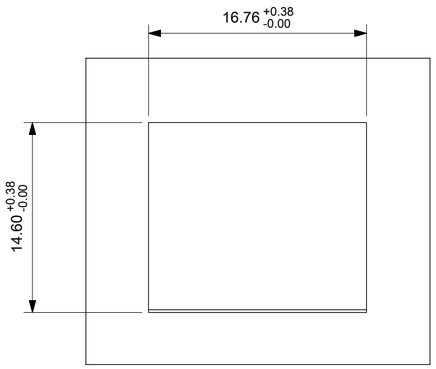
FORMAT: master-tb-prod-A3
REVISION: H
DATE: 2018/01/18

INVERTED PROFILE MAGNETIC JACK
FAST ETHERNET, W/PoE
& W/SHIELD TABS

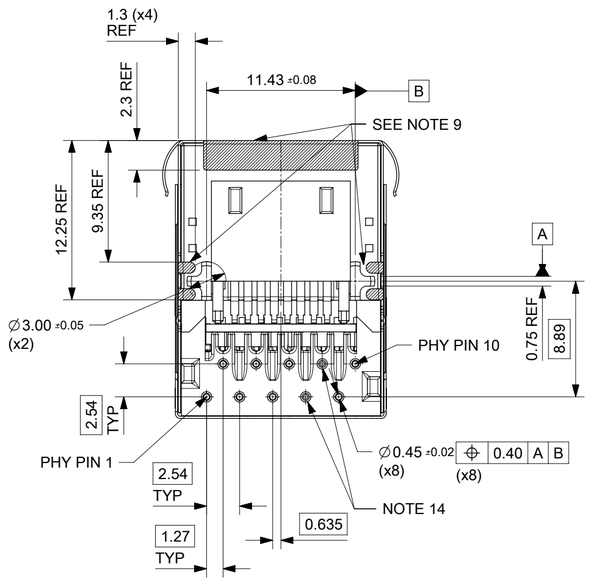


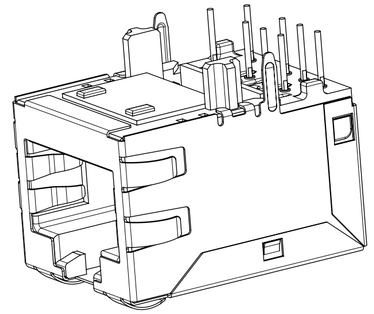


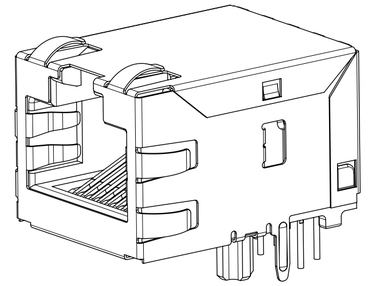




SUGGESTED PANEL CUT-OUT







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 CONTACTS PLATING: BASE NICKEL PLATED WITH GOLD
FLASH OVER PALLADIUM NICKEL. REFER TO 938090001 PSP
PHY SOLDER TAILS: COPPER ALLOY
4 - MATING INTERFACE ACCORDING TO IEC 60603-7 & TIA-1096-A
5 - PRODUCT SPECIFICATION: 938090001 PSP
6 - PACKAGING SPECIFICATION: 934620001 PSK - TRAY
7 - STAND OFF TO SYSTEM BOARD 0.30mm MIN
8 - RECOMMENDED PCB THICKNESS: 1.57mm
9 - SHIELD: AVOID ROUTING TRACES OR PLACING
ANY VIAS BELOW THESE AREAS
10 - AREA FOR PICK AND PLACE: 5.0mmX 8.0mm
11 - INSCRIPTION MARKED BY LASER:
1st : MOLEX
2nd : P/N (SEE BOM)
12 - INSCRIPTION MARKED BY LASER:
DATE CODE (DAY/WEEK/YEAR)
13 - MATERIAL COMPLIANT TO RoHS DIRECTIVE 2002/95/EC
14 - PIN7 & PIN8 NOT ASSEMBLED

ORIGINAL RELEASE
EC NO: 116204 2017/03/14
DRWN: DBYRNES 2017/05/05
CHK'D: DBYRNES 2017/05/15
APPR: STGRIFFIN

GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± 2.0 °
4 PLACES ±
3 PLACES ±
2 PLACES ± 0.1
1 PLACE ± 0.2
0 PLACES ±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REV A

DIMENSION UNITS: MM
SCALE: 3:1
DRWN BY: DBYRNES DATE: 2017/03/14
CHK'D BY: DBYRNES DATE: 2017/05/05
APPR BY: STGRIFFIN DATE: 2017/05/15
DRAWING SIZE: A2
THIRD ANGLE PROJECTION

molex®

MXMAG POE 10/100 INV PRO COMM TEMP

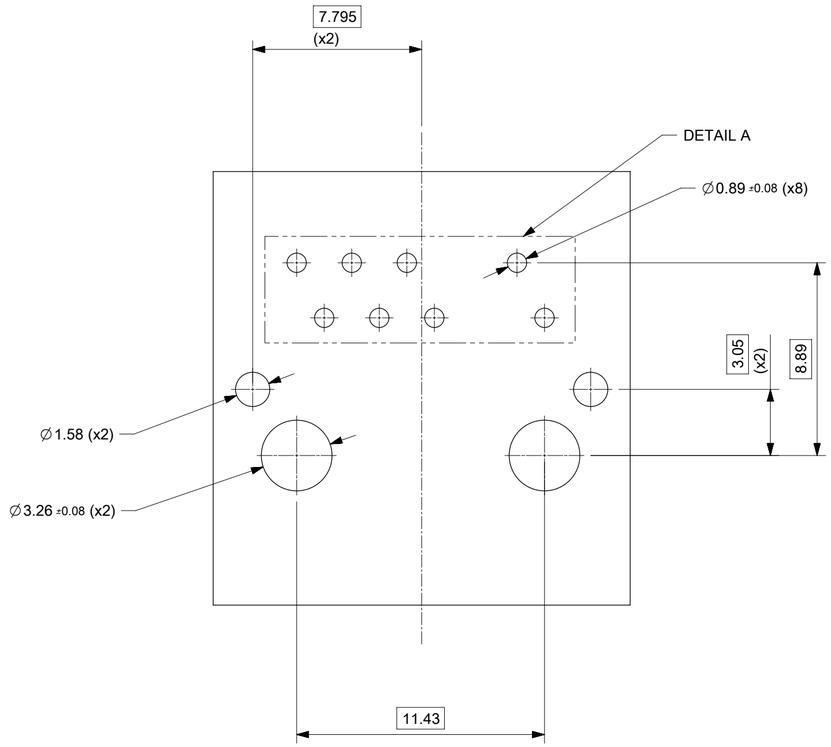
PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
93809	SEE SHEET 2	GENERAL MARKET

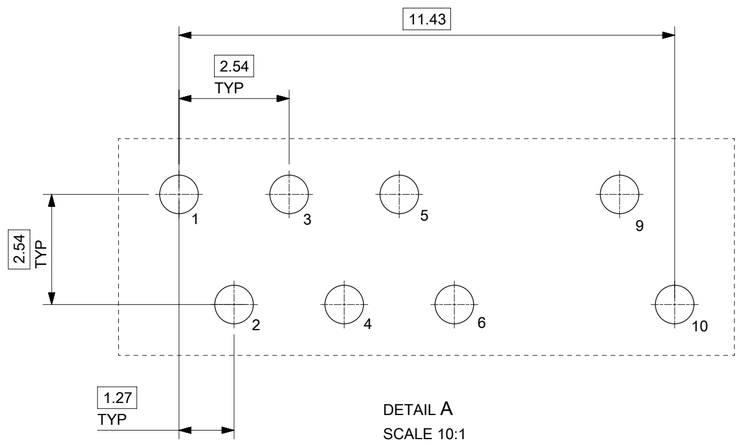
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
938093020	PSD	001	1 OF 3

RELEASE STATUS	P1	RELEASE DATE	15.05.2017 07:47:19

FORMAT: master-tb-prod-A2
REVISION: G
DATE: 2015/12/14



SUGGESTED BOARD LAYOUT
FAST ETHERNET VERSION
COMPONENT SIDE
ALL DIMS REFERENCE DIMS



DETAIL A
SCALE 10:1

PIN CONFIGURATION FOR
FAST ETHERNET VERSION

PART NUMBER	LEFT LED	RIGHT LED
93809-3020	N/A	N/A

ORIGINAL RELEASE
EC NO: 116204 2017/03/14
DRWN: DBYRNES 2017/05/05
CHK'D: DBYRNES 2017/05/15
APPR: STGRIFFIN

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 2.0 °	
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.1
1 PLACE	± 0.2
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REV: A

DIMENSION UNITS: MM
SCALE: 3:1
DRWN BY: DBYRNES DATE: 2017/03/14
CHK'D BY: DBYRNES DATE: 2017/05/05
APPR BY: STGRIFFIN DATE: 2017/05/15
DRAWING SIZE: A2
THIRD ANGLE PROJECTION

molex®

MXMAG POE 10/100 INV PRO COMM TEMP

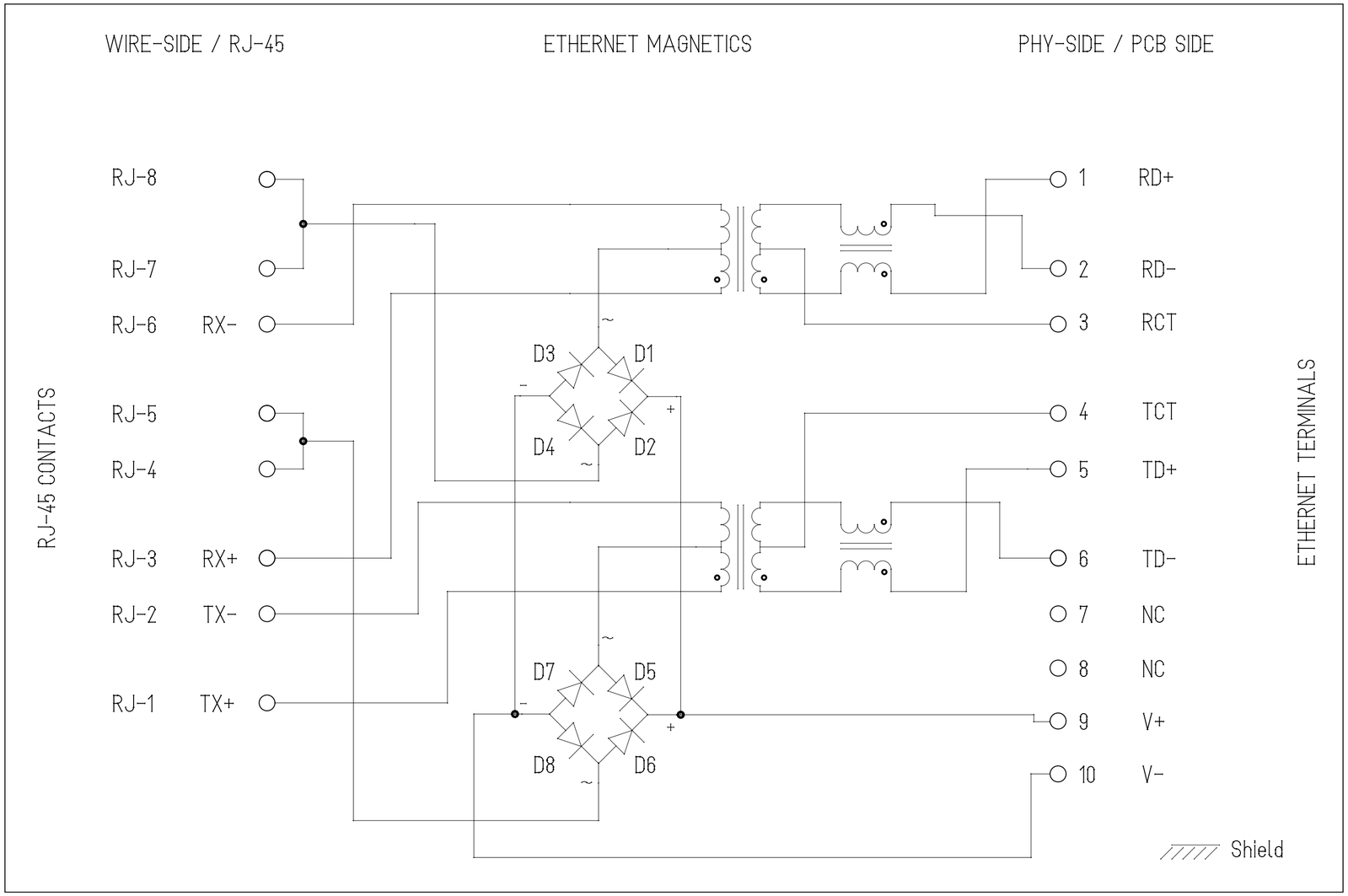
PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
93809	SEE TABLE	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
938093020	PSD	001	2 OF 3

RELEASE STATUS	P1	RELEASE DATE	15.05.2017 07:47:19

FORMAT: master-tb-prod-A2
REVISION: G
DATE: 2015/12/14



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

ORIGINAL RELEASE 2017/03/14
EC NO: 116204 2017/05/05
DRWN: DBYRNES 2017/05/05
CHK'D: DBYRNES 2017/05/15
APPR: STGRIFFIN

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 2.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.1
1 PLACE	± 0.2
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REV: A

DIMENSION UNITS: MM
SCALE: 1:1
DRWN BY: DBYRNES DATE: 2017/03/14
CHK'D BY: DBYRNES DATE: 2017/05/05
APPR BY: STGRIFFIN DATE: 2017/05/15
DRAWING SIZE: A2
THIRD ANGLE PROJECTION

molex®

MXMAG POE 10/100 INV PRO COMM TEMP

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
93809	SEE SHEET 2	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
938093020	PSD	001	3 OF 3

RELEASE STATUS	P1	RELEASE DATE	15.05.2017 07:47:19

FORMAT: molder-b-prod-A2
REVISION: G
DATE: 2015/12/14