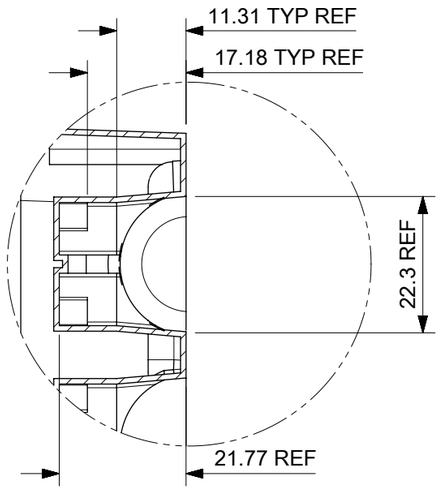
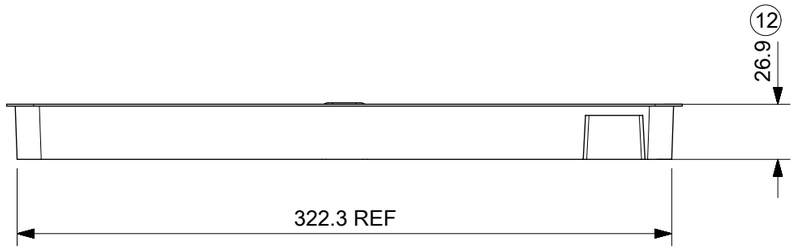
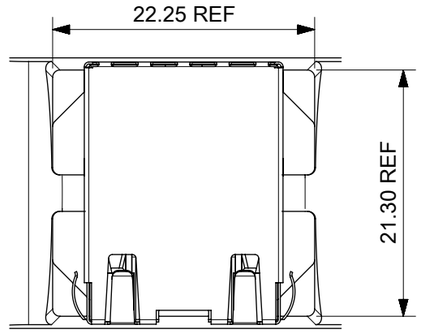
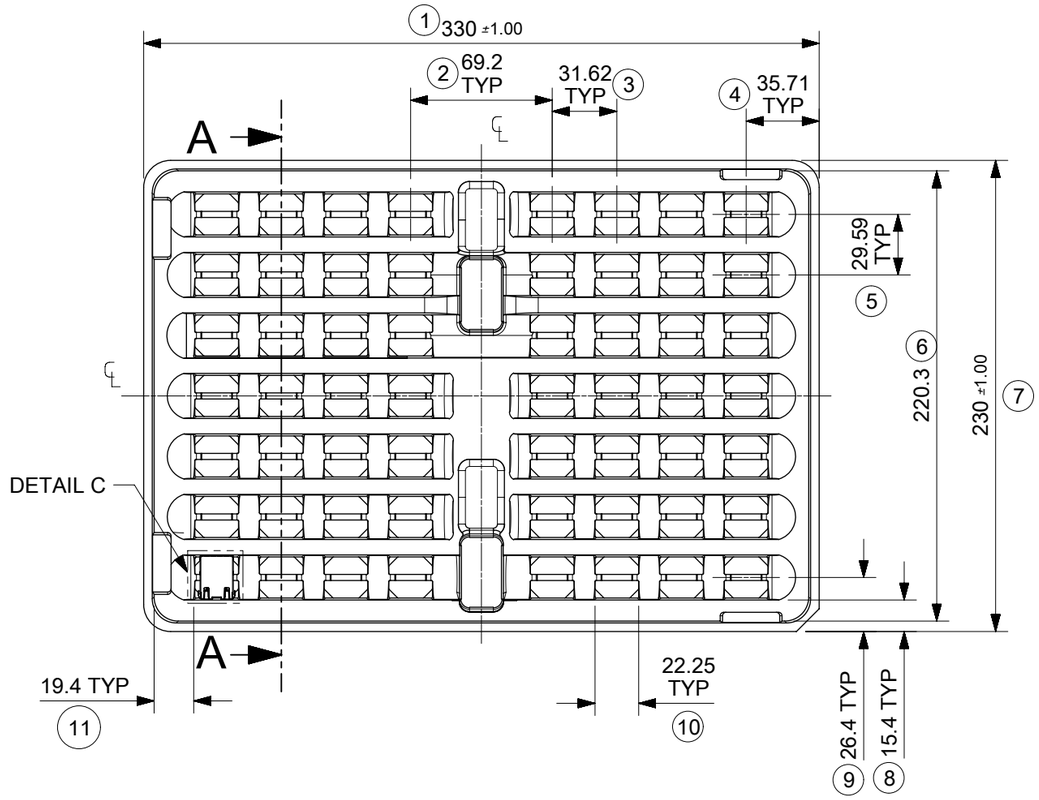


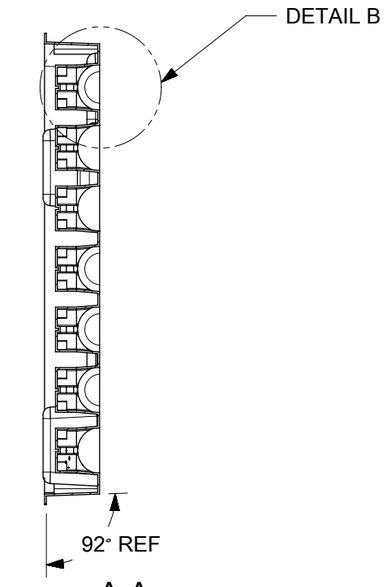
DETAIL B





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

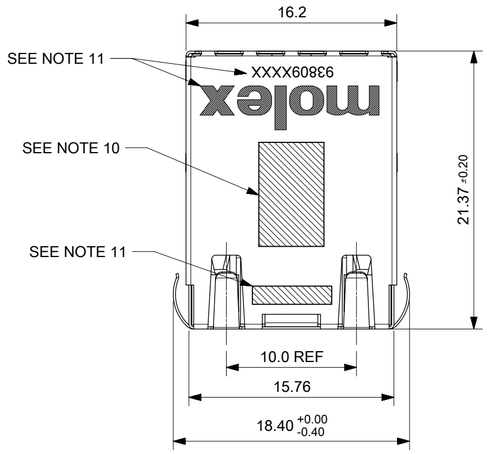
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
990250150	GENERAL MARKET	1 OF 1

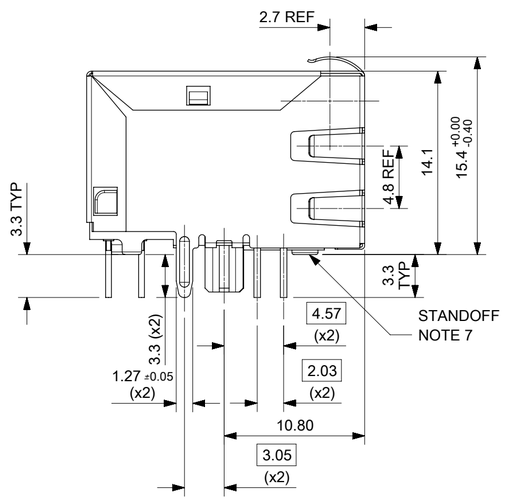
DOCUMENT STATUS	P1	RELEASE DATE	2019/01/25 10:12:55

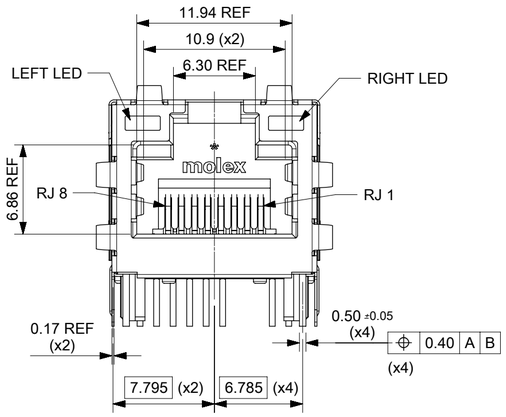
FORMAT: master-tb-prod-A3
REVISION: H
DATE: 2018/01/18

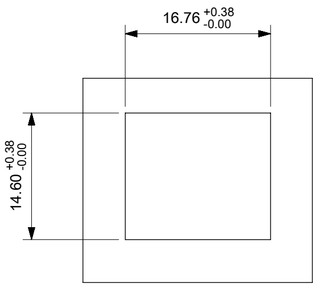
INVERTED PROFILE MAGNETIC JACK
FAST ETHERNET W/LED, W/PoE
& W/SHIELD TABS

NOTES:
1 - SHIELD MATERIAL: 0.17MM THICK BRASS PRE-PLATED WITH NICKEL
SOLDER TABS POST DIPPED WITH 1.27µm SOLDER.
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: 5.0mm X 8.0mm
11 - INSCRIPTION MARKED BY LASER:
1st : MOLEX
2st : P/N (SEE BOM)
3rd : DATE CODE(DAY/WEEK/YEAR)
12 - MATERIAL COMPLIANT TO RoHS DIRECTIVE 2002/95/EC

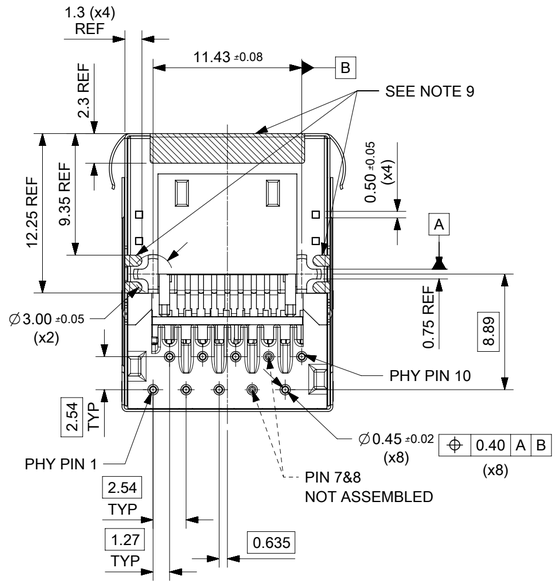


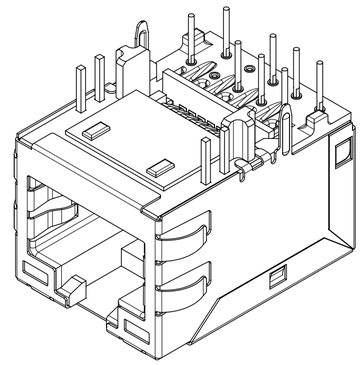


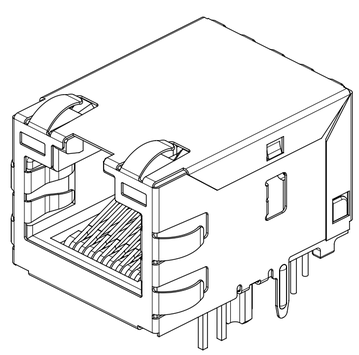




SUGGESTED PANEL CUT-OUT







QUALITY SYMBOLS	
▽ = 0	
▽ = 0	
▽ = 0	
▼ = 0	
▽ = 0	
☒ = 0	
■ = 0	
▽ = 0	

ORIGINAL RELEASE
EC NO: 114183 2017/03/14
DRWN: DBYRNES 2017/03/14
CHK'D: DSHEA 2017/03/24
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: DSHEA DATE: 2017/03/14
APPR BY: STGRIFFIN DATE: 2017/03/24
DRAWING SIZE: A2
THIRD ANGLE PROJECTION

molex®

MXMAG POE 10/100 INV PRO IND TEMP

PRODUCT CUSTOMER DRAWING

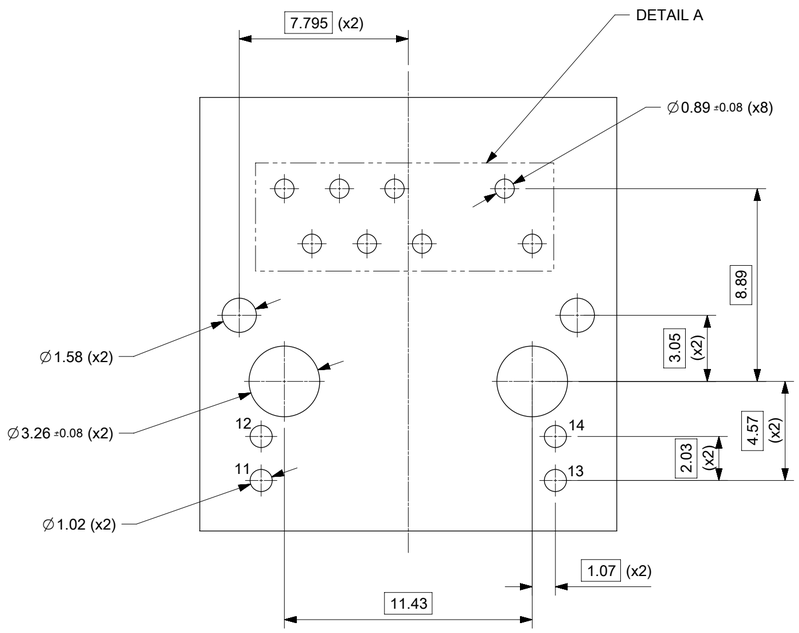
SERIES	MATERIAL NUMBER	CUSTOMER
93809	SEE CHART	

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
938098046	PSD	001	1 OF 3

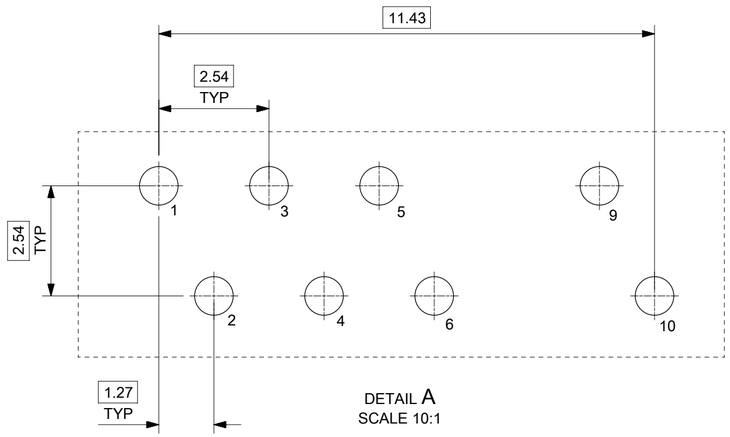
RELEASE STATUS	P1	RELEASE DATE	24.03.2017 08:58:30

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

PART NUMBER	LEFT LED		RIGHT LED	
93809-8046	COLOR GREEN	WITH 250 Ohm Resistor	COLOR YELLOW	WITH 250 Ohm Resistor



SUGGESTED BOARD LAYOUT
COMPONENT SIDE
ALL DIMS REFERENCE DIMS



DETAIL A
SCALE 10:1

PIN CONFIGURATION FOR
FAST ETHERNET VERSION

RELEASE STATUS	P1	RELEASE DATE	24.03.2017	08:58:30

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

QUALITY SYMBOLS
= 0
= 0
= 0
= 0
= 0
= 0
= 0
= 0

ORIGINAL RELEASE
EC NO: 114183 2017/03/14
DRWN: DBYRNES 2017/03/14
CHK'D: DSHEA 2017/03/24
APPR: STGRIFFIN
REV A

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

DIMENSION UNITS: MM
SCALE: 5:1
DRWN BY: DBYRNES DATE: 2017/03/14
CHK'D BY: DSHEA DATE: 2017/03/14
APPR BY: STGRIFFIN DATE: 2017/03/24
DRAWING SIZE: A2
THIRD ANGLE PROJECTION

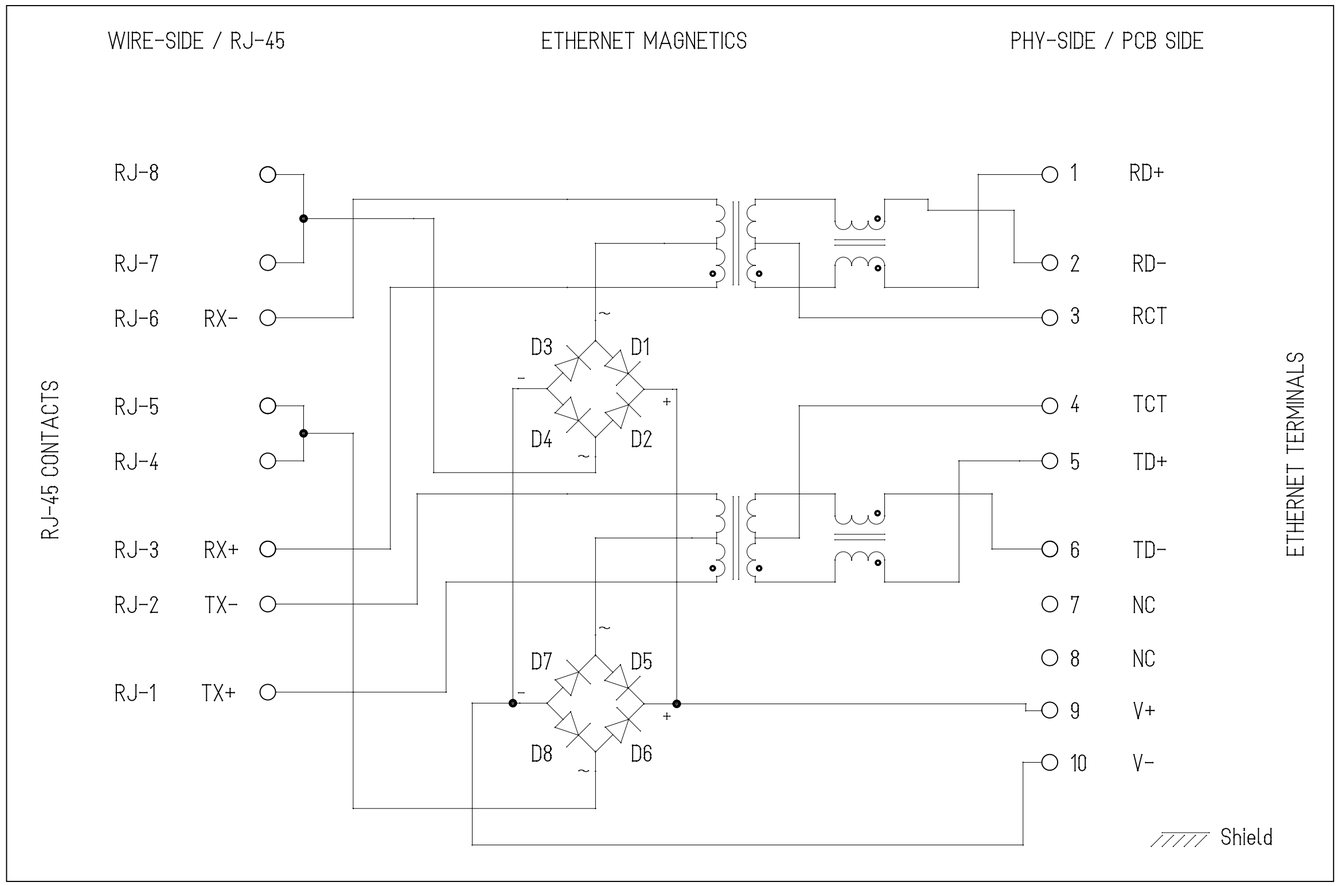
molex®

MXMAG POE 10/100 INV PRO IND TEMP

PRODUCT CUSTOMER DRAWING

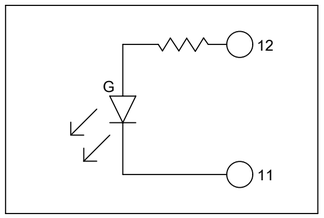
SERIES	MATERIAL NUMBER	CUSTOMER
93809	SEE CHART	

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
938098046	PSD	001	2 OF 3

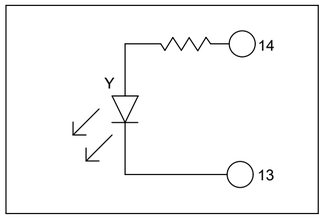


Description	Value	
OCL @100kHz,0.1V 8mA DC bias (-40°C to +85°C)	350µH min.	
Turns ratio	1CT:1CT	
PoE Current	350mA DC max.	
Transmission characteristics @ 25°C, all four pairs		
Insertion Loss		
Frequency (MHz)	Limits (dB max.)	Typical Values (dB max.)
1.0-9.9 MHz	0.4+0.1*log(F)	0.5 @ 10MHz
10-49.9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

LEFT LED



RIGHT LED



QUALITY SYMBOLS

E =	0
E =	0
E =	0
▼ =	0
▽ =	0
☒ =	0
■ =	0
▽ =	0

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.

ORIGINAL RELEASE
EC NO: 114183 2017/03/14
DRWN: DBYRNES 2017/03/14
CHK'D: DSHEA 2017/03/24
APPR: STGRIFFIN

REV: A

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

DIMENSION UNITS: MM
SCALE: 1:1
DRWN BY: DBYRNES DATE: 2017/03/14
CHK'D BY: DSHEA DATE: 2017/03/14
APPR BY: STGRIFFIN DATE: 2017/03/24
DRAWING SIZE: A2
THIRD ANGLE PROJECTION

molex®

MXMAG POE 10/100 INV PRO IND TEMP

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
93809	SEE CHART	

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
938098046	PSD	001	3 OF 3

RELEASE STATUS	P1	RELEASE DATE	24.03.2017 08:58:30

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