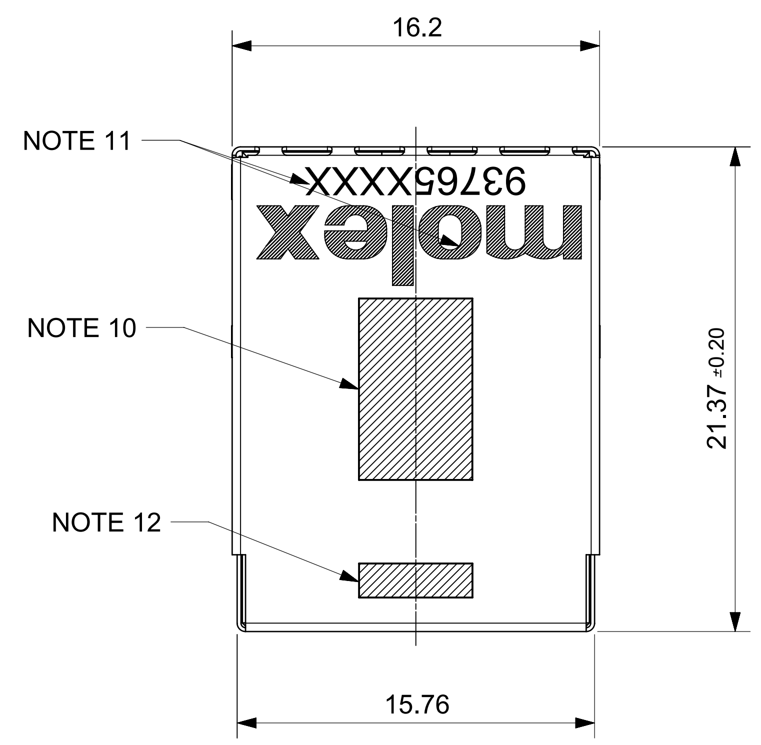
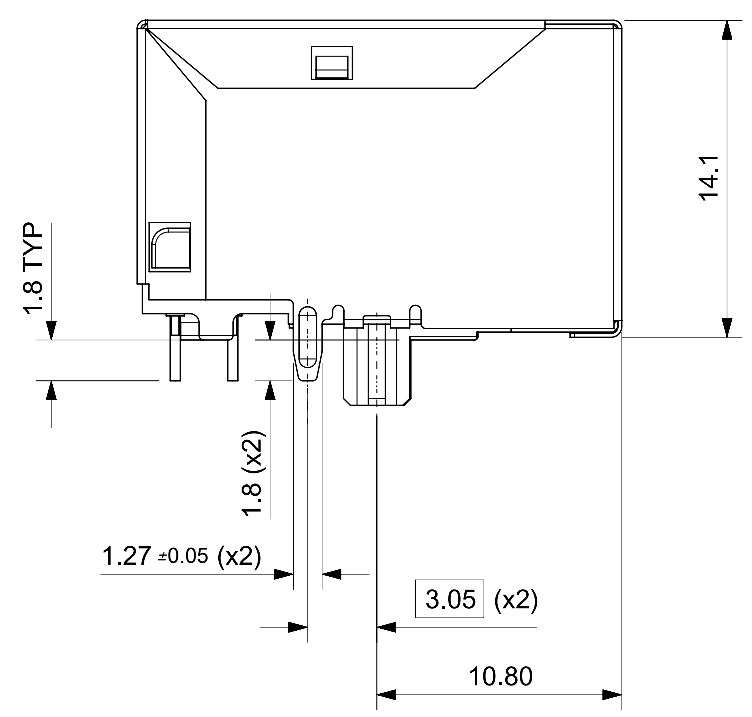
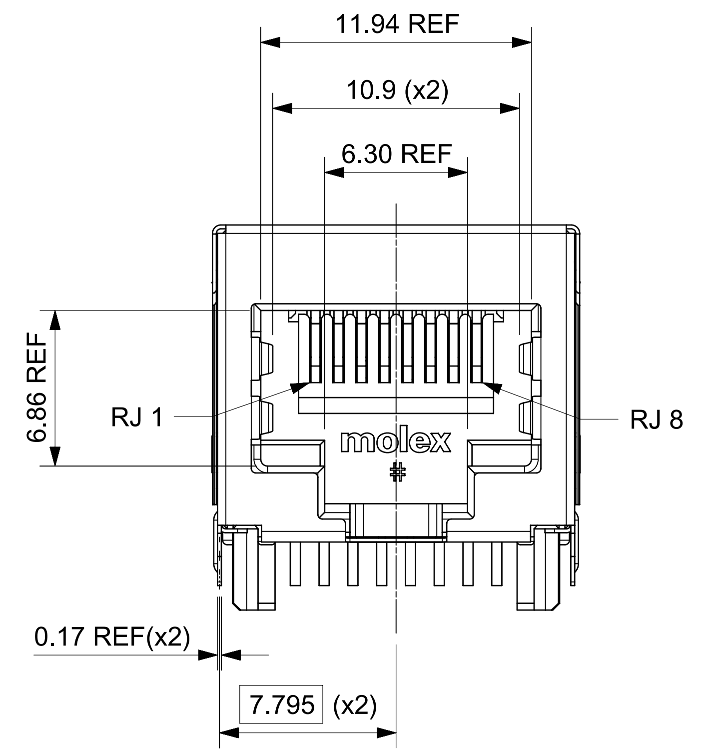
STANDARD PROFILE MAGNETIC JACK
FAST ETHERNET W/O LEDS
AND W/O SHIELD TABS TOP AND SIDE
PIN IN PASTE CAPABLE

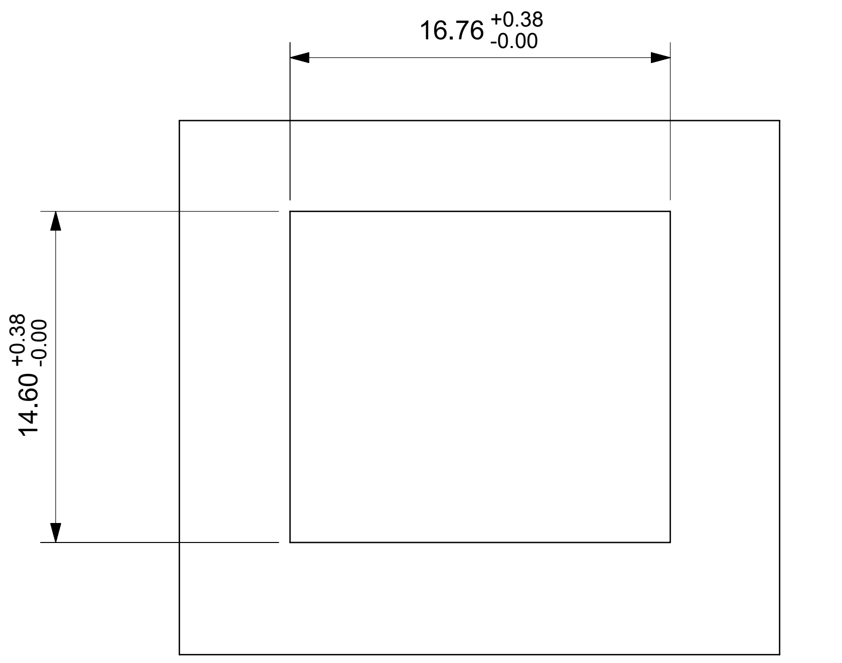


NOTES:

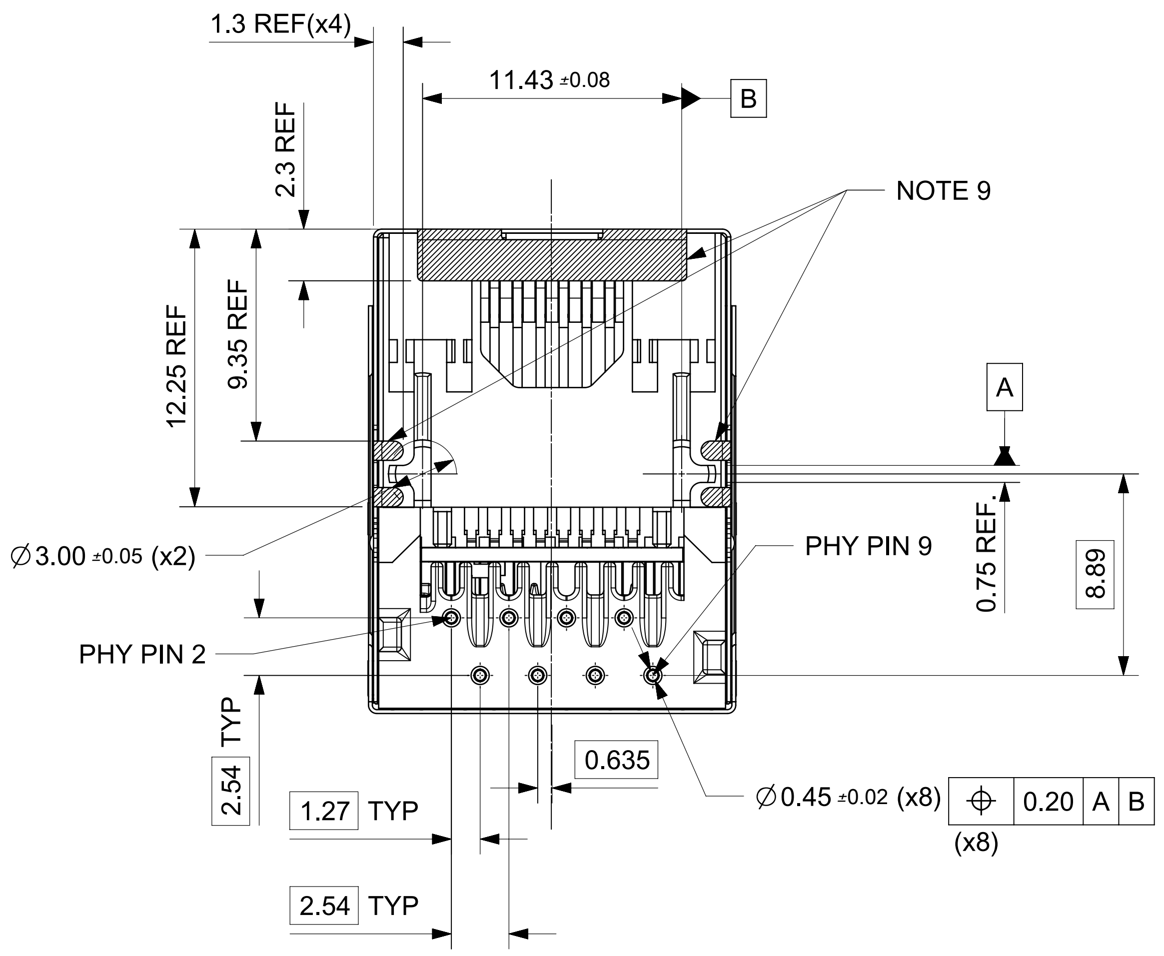
1 - SHIELD MATERIAL: 0.17 mm THICK BRASS PRE-PLATED WITH NICKEL
    SOLDER TABS POST DIPPED WITH MIN. 1.27 µm TIN
2 - HOUSING MATERIAL: LCP, BLACK, UL 94V-0
3 - TERMINAL MATERIAL: PHOSPHOR BRONZE
    RJ45 CONTACTS PLATING: BASE NICKEL PLATED WITH GOLD
    FLASH OVER PALLADIUM NICKEL. REFER TO 934620001 PSP
    PHY SOLDER TAILS: COPPER ALLOY
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 PACKAGING DRAWING: 934629001 PSD.
7 - STAND OFF TO SYSTEM BOARD 0.30 mm MINIMUM
8 - RECOMMENDED PCB THICKNESS: 1.57 mm
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 MINIMUM.
11 - INSCRIPTION MARKED BY LASER:
    1st : MOLEX
    2nd : P/N (SEE BOM)
12 - DATE CODE(DAY/WEEK/YEAR)

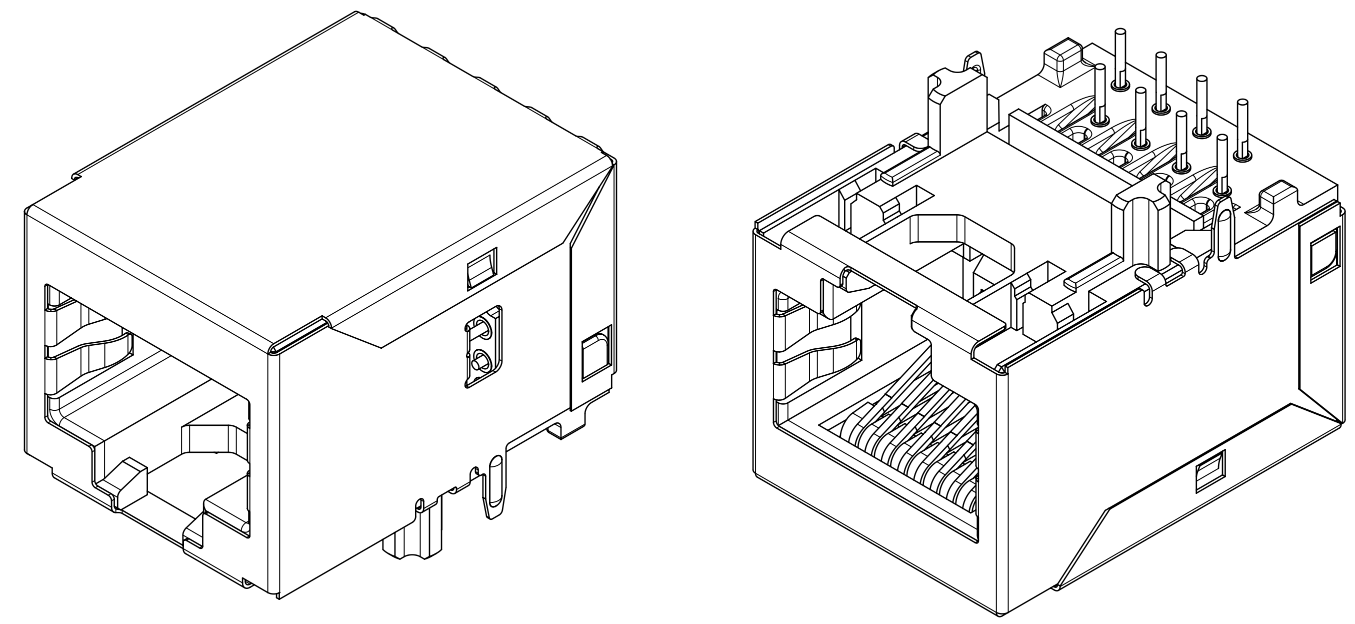






SUGGESTED PANEL CUT-OUT





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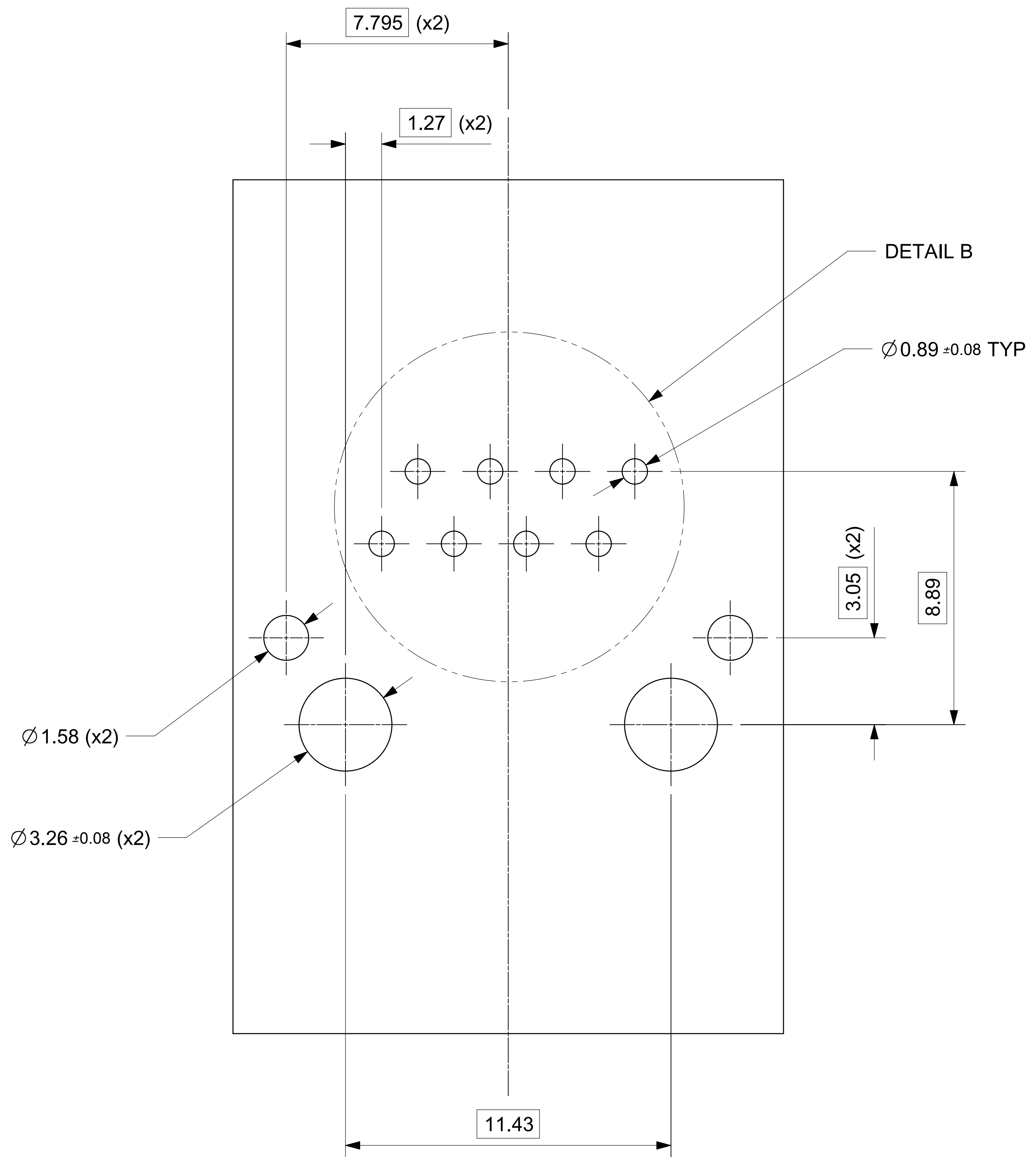
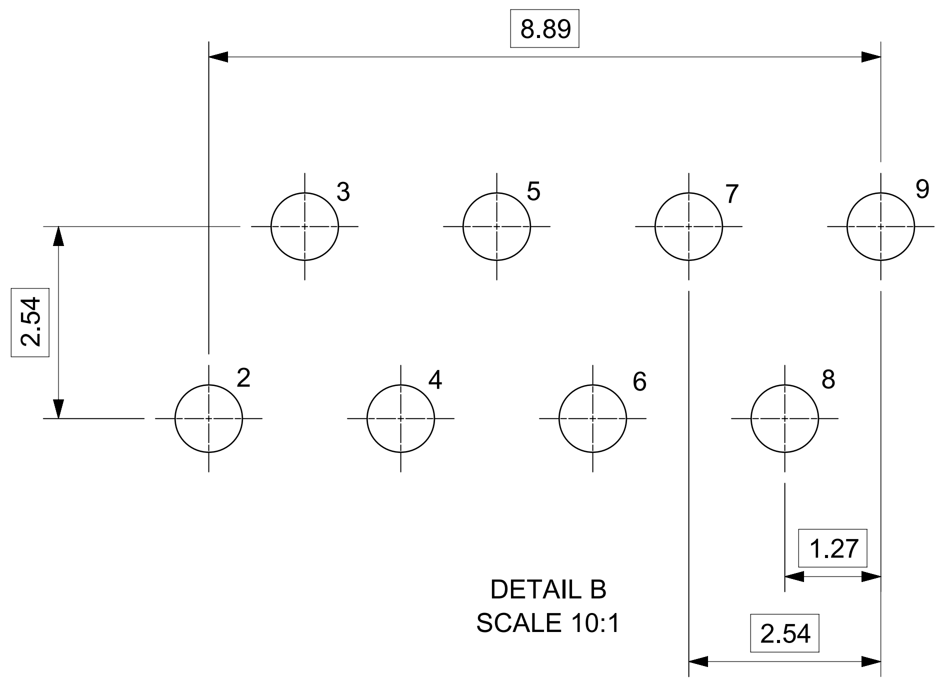
DIMENSION UNITS: mm	SCALE: 3:1	CURRENT REV DESC: ORIGINAL RELEASE.	molex
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 624196	STD PRO MXMAG P.I.P. 4 CORE FE
ANGULAR TOL ± 2.0 °		DRWN: DBYRNES 2019/09/17	
4 PLACES ±		CHK'D: BODEA 2019/10/02	
3 PLACES ±		APPR: DSHEA 2019/10/08	PRODUCT CUSTOMER DRAWING
2 PLACES ± 0.1		INITIAL REVISION:	DOCUMENT NUMBER: 937655320 — DOC TYPE: PSD — DOC PART: 000 — REVISION: A
1 PLACE ± 0.2		DRWN: DBYRNES 2019/09/17	
0 PLACES ±		APPR: DSHEA 2019/10/08	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION — DRAWING: A2-SIZE — SERIES: 93765	MATERIAL NUMBER: SEE SHEET 2 — CUSTOMER: GENERAL MARKET — SHEET NUMBER: 1 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2019/10/08 09:08:15

PART NUMBER	93765-5320



SUGGESTED BOARD LAYOUT
FAST ETHERNET VERSION
COMPONENT SIDE
ALL DIMENSIONS ARE REFERENCE DIMENSIONS



DETAIL B
SCALE 10:1

PIN CONFIGURATION
FOR FAST ETHERNET VERSION

DIMENSION UNITS	SCALE
mm	5:1

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

CURRENT REV DESC: ORIGINAL RELEASE.

EC NO: 624196
DRWN: DBYRNES 2019/09/17
CHK'D: BODEA 2019/10/02
APPR: DSHEA 2019/10/08

INITIAL REVISION:
DRWN: DBYRNES 2019/09/17
APPR: DSHEA 2019/10/08

THIRD ANGLE PROJECTION	DRAWING	SERIES
	A2-SIZE	93765

molex

STD PRO MXMAG P.I.P. 4 CORE FE

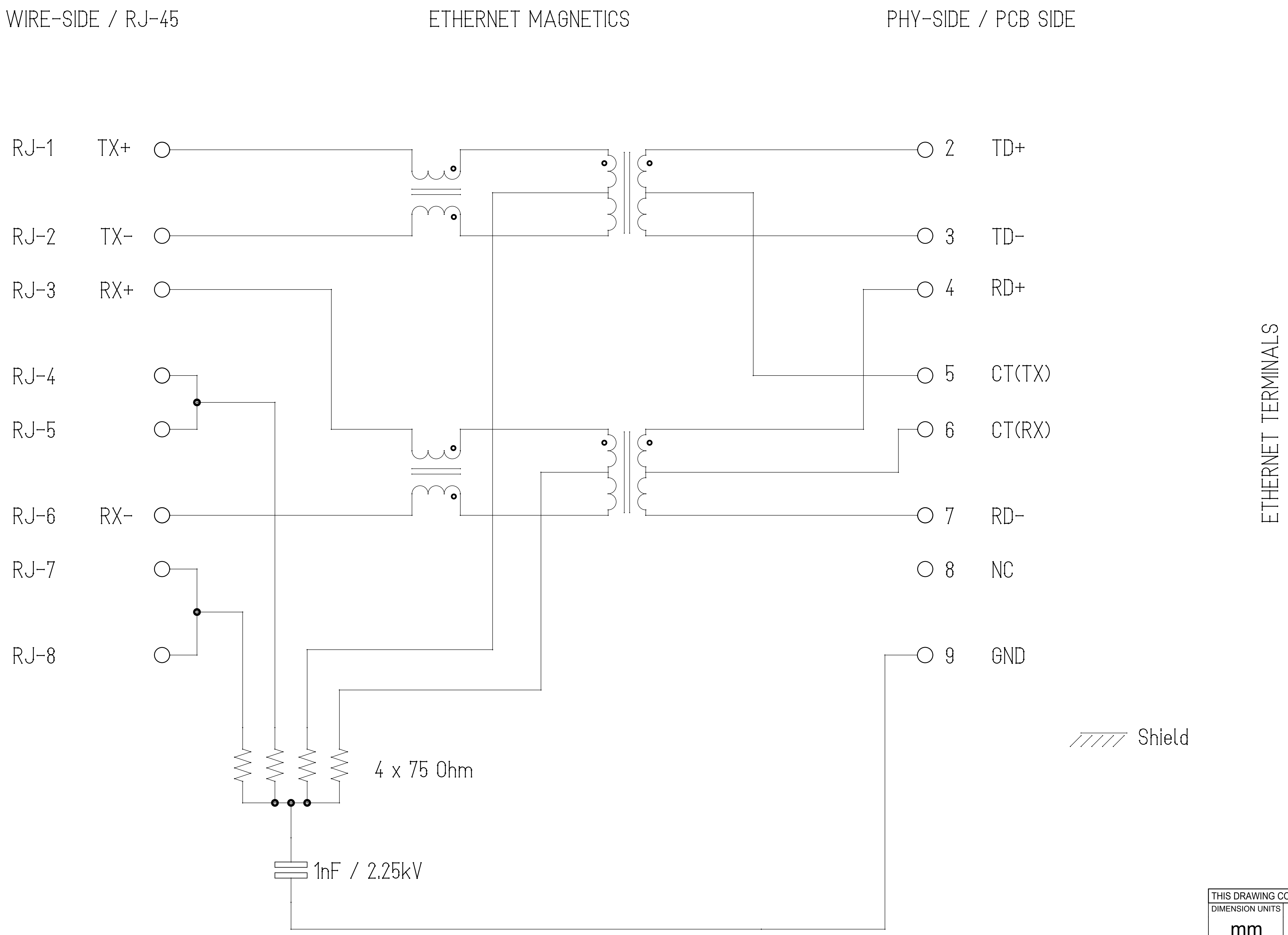
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
937655320	PSD	000	A

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE SHEET 2	GENERAL MARKET	2 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2019/10/08 09:08:15

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/60sec	



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DIMENSION UNITS	mm
SCALE	1:1
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

CURRENT REV DESC: ORIGINAL RELEASE.

EC NO: 624196
DRWN: DBYRNES 2019/09/17
CHK'D: BODEA 2019/10/02
APPR: DSHEA 2019/10/08

INITIAL REVISION:
DRWN: DBYRNES 2019/09/17
APPR: DSHEA 2019/10/08

THIRD ANGLE PROJECTION | DRAWING: A2-SIZE | SERIES: 93765

molex

STD PRO MXMAG P.I.P. 4 CORE FE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
937655320	PSD	000	A

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE SHEET 2	GENERAL MARKET	3 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2019/10/08 09:08:15