



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

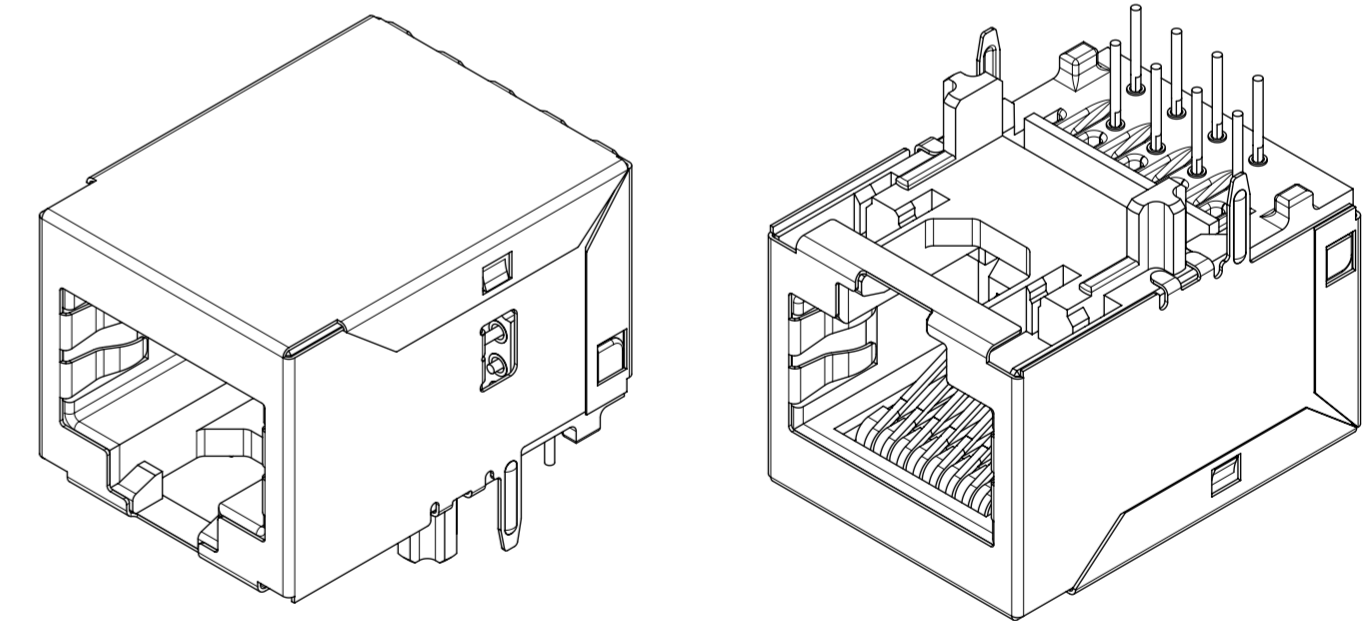
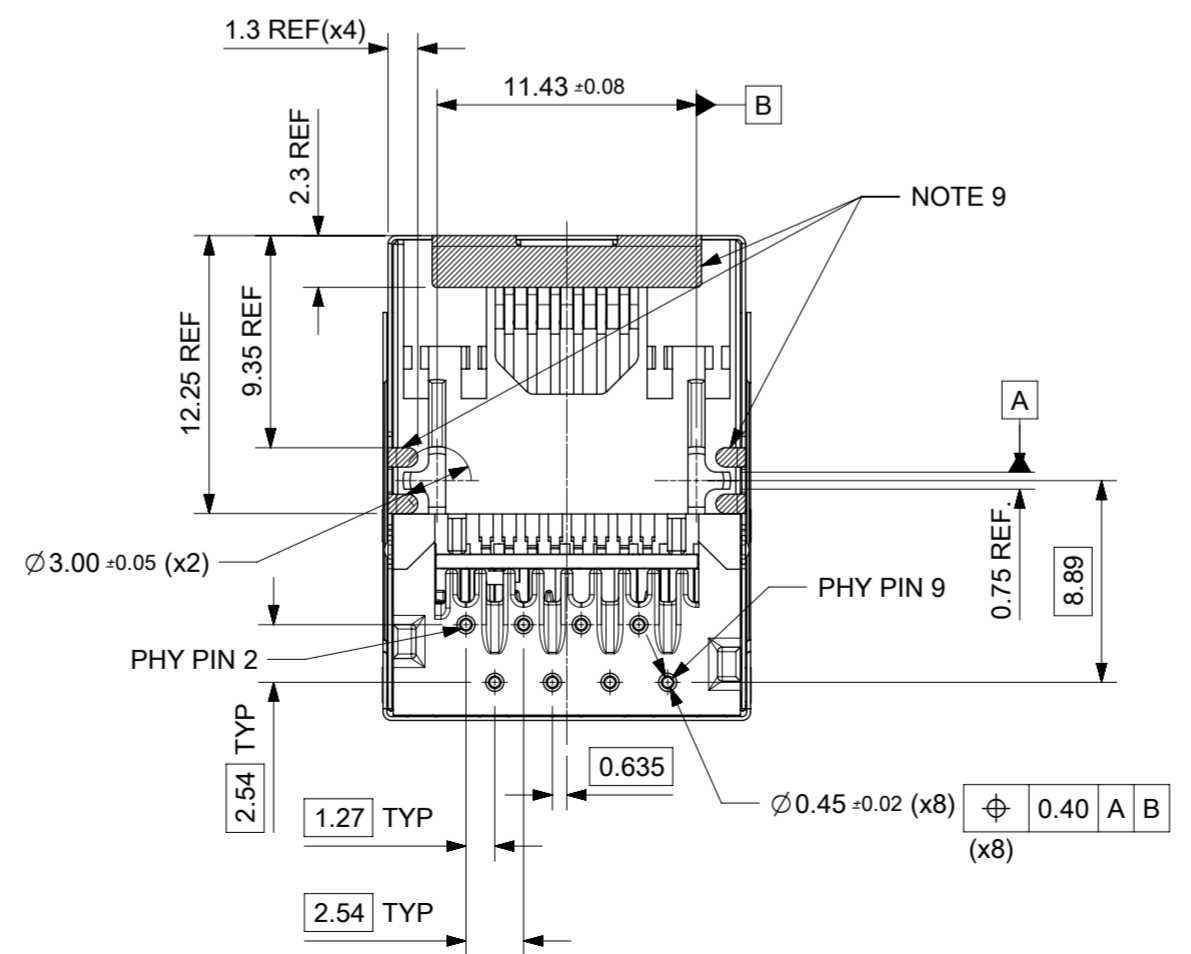
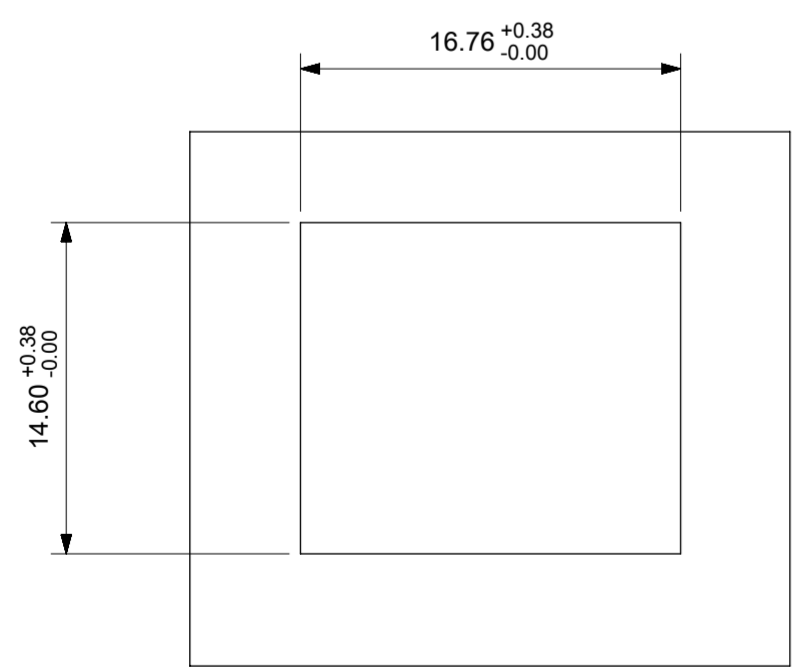
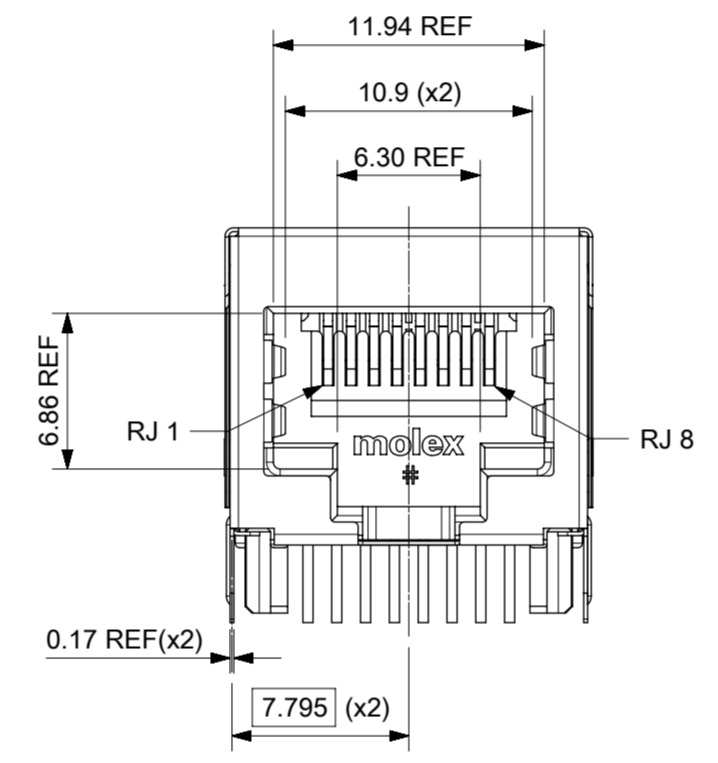
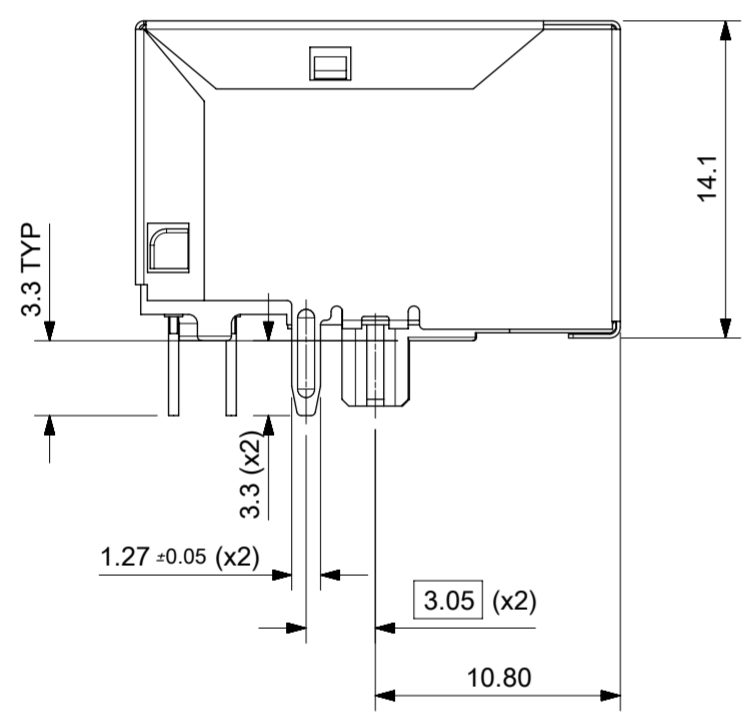
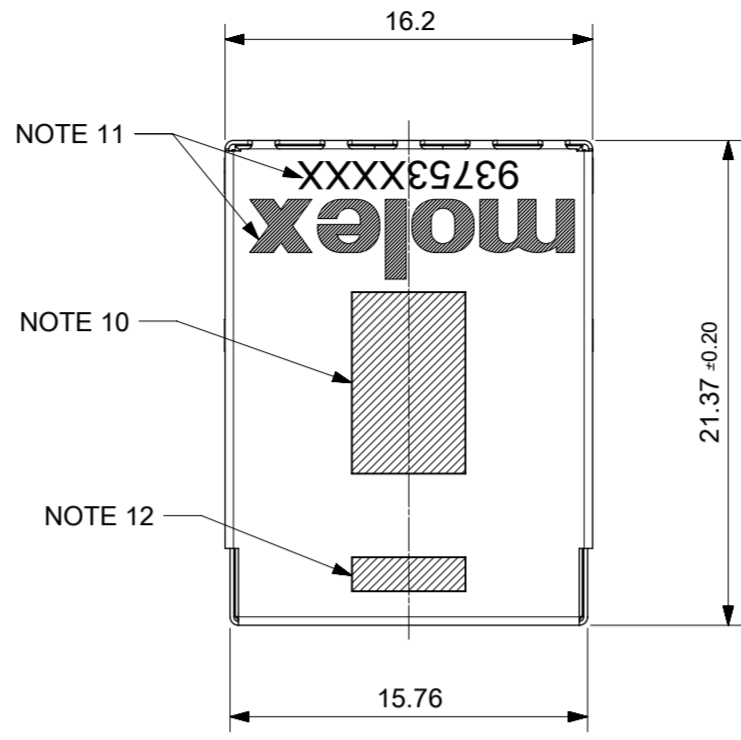
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

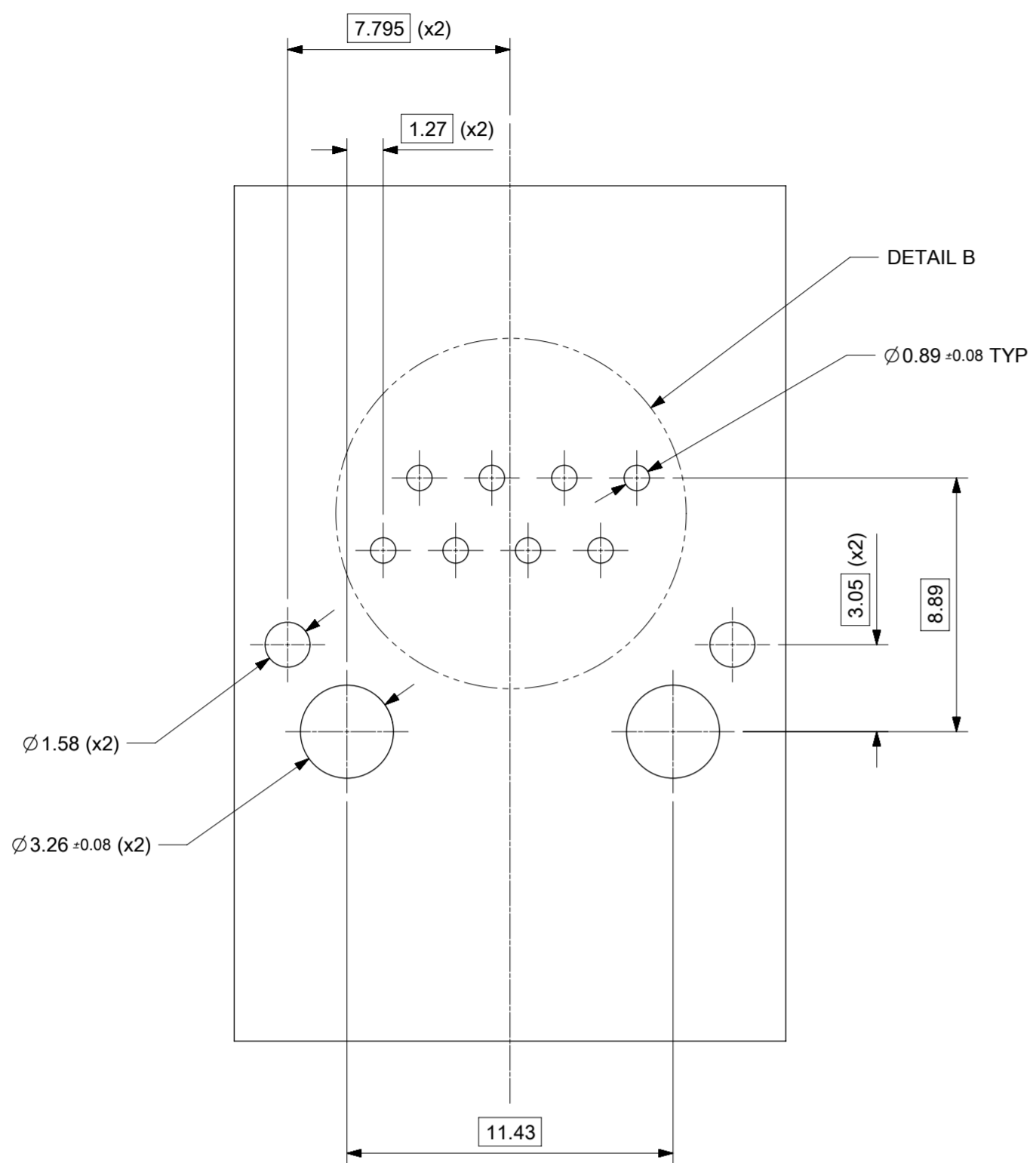


STANDARD PROFILE MAGNETIC JACK  
FAST ETHERNET W/O LEDS  
AND W/O SHIELD TABS TOP AND SIDE

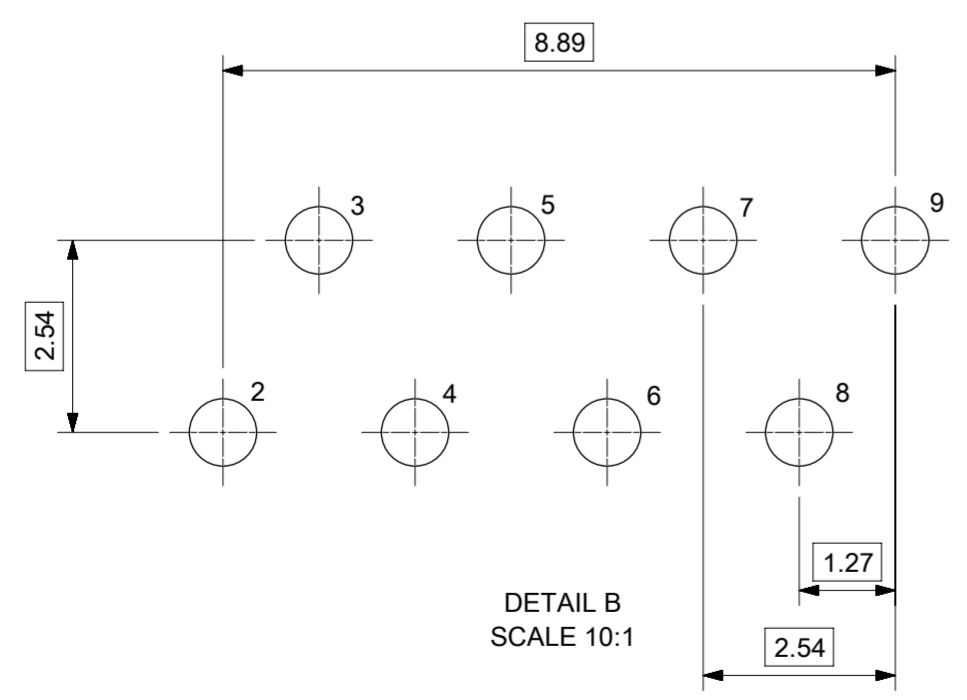
- NOTES:
- 1 - SHIELD MATERIAL: 0.17 mm THICK BRASS PRE-PLATED WITH NICKEL  
SOLDER TABS POST DIPPED WITH MIN. 1.27 μm TIN
  - 2 - HOUSING MATERIAL: LCP, BLACK, UL 94V-0
  - 3 - TERMINAL MATERIAL: PHOSPHOR BRONZE  
RJ45 CONTACTS PLATING: BASE NICKEL PLATED WITH GOLD  
FLASH OVER PALLADIUM NICKEL. REFER 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
  - 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
  - 11 - INSCRIPTION MARKED BY LASER:  
1st : MOLEX  
2nd : P/N (SEE BOM)
  - 12 - DATE CODE(DAY/WEEK/YEAR)
  - 13 - MATERIAL COMPLIANT TO RoHS DIRECTIVE 2002/95/EC



THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
REVISED	EC NO: 168420	2017/05/09	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS	SCALE						
	DRWN: DBYRNES	2016/01/15	ANGULAR TOL ± 2.0 °		mm	3:1						
	CHKD: DBYRNES	2018/01/15	4 PLACES ±	DRWN BY	DATE		KREILLY 2015/10/01					
	APPR: DBYRNES		3 PLACES ±	CHK'D BY	DATE		DBYRNES 2016/09/19					
			2 PLACES ± 0.1	APPR BY	DATE		STGRIFFIN 2016/10/07					
		1 PLACE ± 0.2	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE	THIRD ANGLE PROJECTION	SERIES		MATERIAL NUMBER	CUSTOMER		
		0 PLACES ±			A2		93753	SEE CHART	GENERAL MARKET			
							DOCUMENT NUMBER	937530001	DOC TYPE	PSD	DOC PART	SHEET NUMBER
												1 OF 3



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



PIN CONFIGURATION  
FOR FAST ETHERNET VERSION

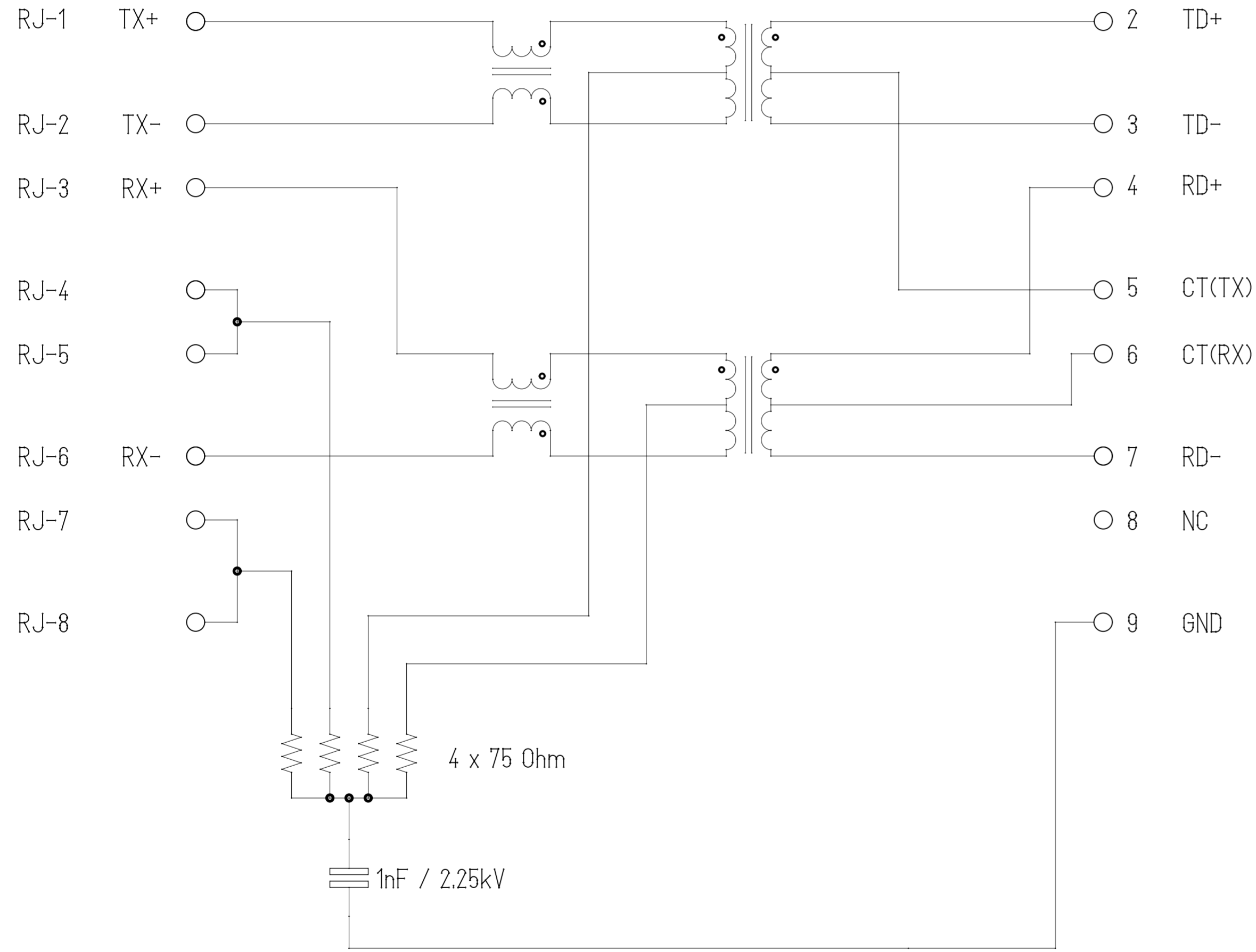
PART NUMBER 93753-5320

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REVISED	EC NO: 168420	2017/05/09	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION UNITS	SCALE	<b>molex</b> <sup>®</sup>						
	DRWN: DBYRNES	2016/01/15	ANGULAR TOL ± 2.0 °	mm	5:1							
	CHKD: DBYRNES	2018/01/15	4 PLACES ±	DRWN BY	DATE	STD MXMAG 4 CORE FE						
	REV / APPR: DBYRNES		3 PLACES ±	KREILLY	2015/10/01	PRODUCT CUSTOMER DRAWING						
			2 PLACES ± 0.1	CHK'D BY	DATE	SERIES MATERIAL NUMBER CUSTOMER						
			1 PLACE ± 0.2	DBYRNES	2016/09/19	93753 SEE CHART GENERAL MARKET						
		0 PLACES ±	APPR BY	DATE	DOCUMENT NUMBER DOC TYPE DOC PART SHEET NUMBER							
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	STGRIFFIN	2016/10/07	937530001 PSD 000 2 OF 3							
C			DRAWING SIZE	THIRD ANGLE PROJECTION								
			A2									

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/60sec	

ETHERNET TERMINALS

Shield

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REVISED EC NO: 168420 DRWN: DBYRNES CHK'D: DBYRNES REV APPR: DBYRNES	2017/05/09	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION UNITS	SCALE		
	2016/01/15	(UNLESS SPECIFIED)	mm	1:1		
	2018/01/15	ANGULAR TOL ± 2.0 °	DRWN BY	DATE		STD MXMAG 4 CORE FE
		4 PLACES ±	KREILLY	2015/10/01		
		3 PLACES ±	CHK'D BY	DATE		
	2 PLACES ± 0.1	DBYRNES	2016/09/19			
	1 PLACE ± 0.2	APPR BY	DATE			
	0 PLACES ±	STGRIFFIN	2016/10/07	PRODUCT CUSTOMER DRAWING		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE	THIRD ANGLE PROJECTION	SERIES	MATERIAL NUMBER	CUSTOMER
		A2		93753	SEE CHART	GENERAL MARKET
				DOCUMENT NUMBER	DOC TYPE	DOC PART SHEET NUMBER
				937530001	PSD	000 3 OF 3