



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

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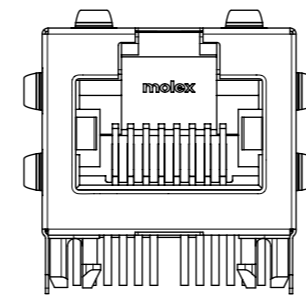
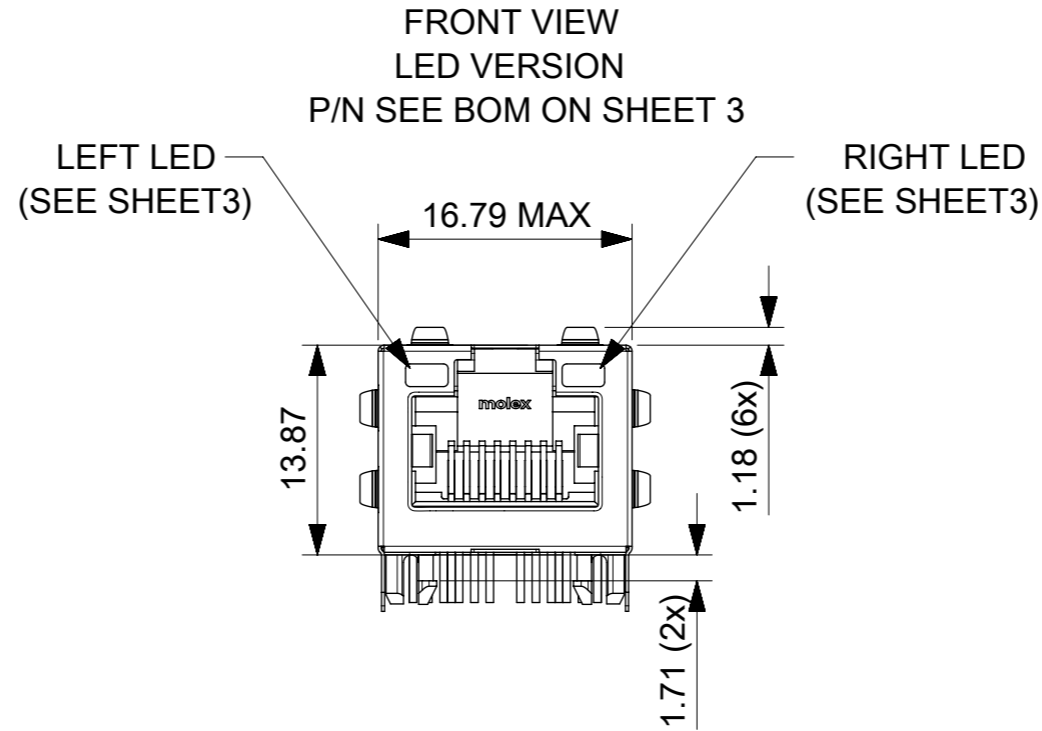
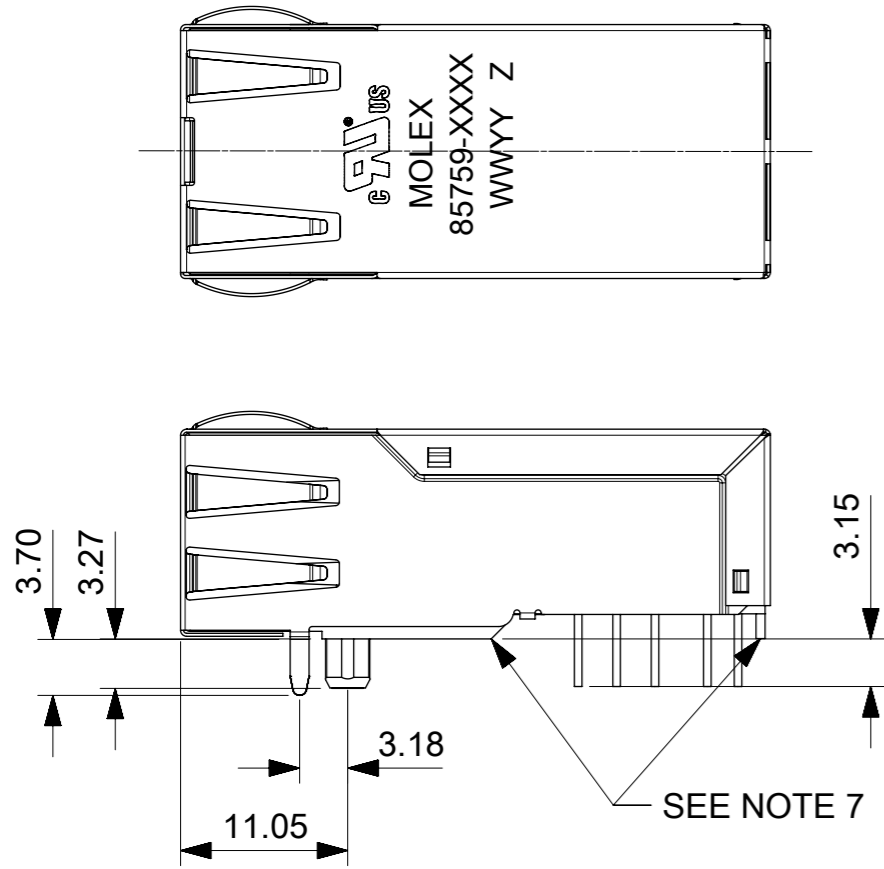
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



GIGABIT SINGLE PORT MAGNETIC JACK WITH OR WITHOUT LEDs AND INTEGRATED POWER OVER ETHERNET PLUS CONTROL CIRCUITRY ACCORDING TO IEEE802.3at

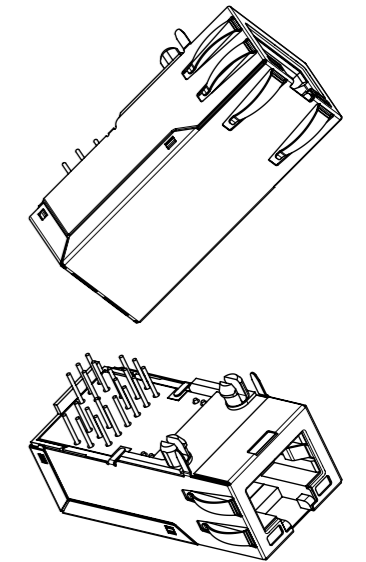
NOTES:

- 1 - SHIELD MATERIAL: STAINLESS STEEL
(GROUND PINS ARE SOLDER DIPPED)
- 2 - PLASTIC MATERIAL: PBT, BLACK, UL 94V-0
- 3 - RJ45 TERMINALS MATERIAL: COPPER ALLOY
CONTACT PLATING: 0.76 MICROMETER GOLD OVER 1.9 MICROMETER NICKEL
PHY TERMINALS: TIN PLATED
- 4 - MATING INTERFACE ACCORDING TO IEC 60603-7
- 5 - PRODUCT SPECIFICATION: PS-85759-001
- 6 - PACKAGING SPECIFICATION: PK-85759-001
- 7 - STAND OFF TO SYSTEM BOARD
- 8 - STUB PINS, SHIELD AND SHIELD LATCHES:
AVOID TO ROUTE TRACES OR TO PLACE ANY VIAS OR PADS IN THIS AREA
- 9 - INSCRIPTION MARKED BY LASER
UL LOGO
1st: MOLEX
2nd: PART NUMBER
3rd: DATE CODE (WEEK / YEAR)
Z=> MANUFACTURER CODE
- 10 - RECOMMENDED PCB THICKNESS: 1.6mm / 0.067inch
1st : MOLEX
2st : P/N (SEE BOM)
3rd : DATE CODE(WEEK/YEAR)

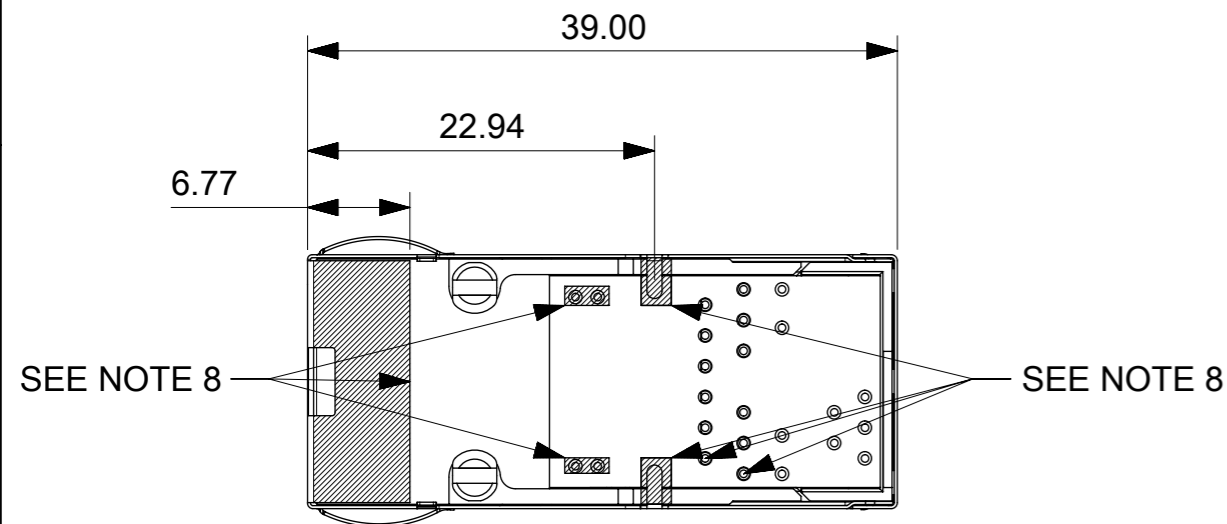


NOTE
PRE-RELEASE
REFERENCE
USE ONLY

FRONT VIEW
NON-LED VERSION
P/N 857591020

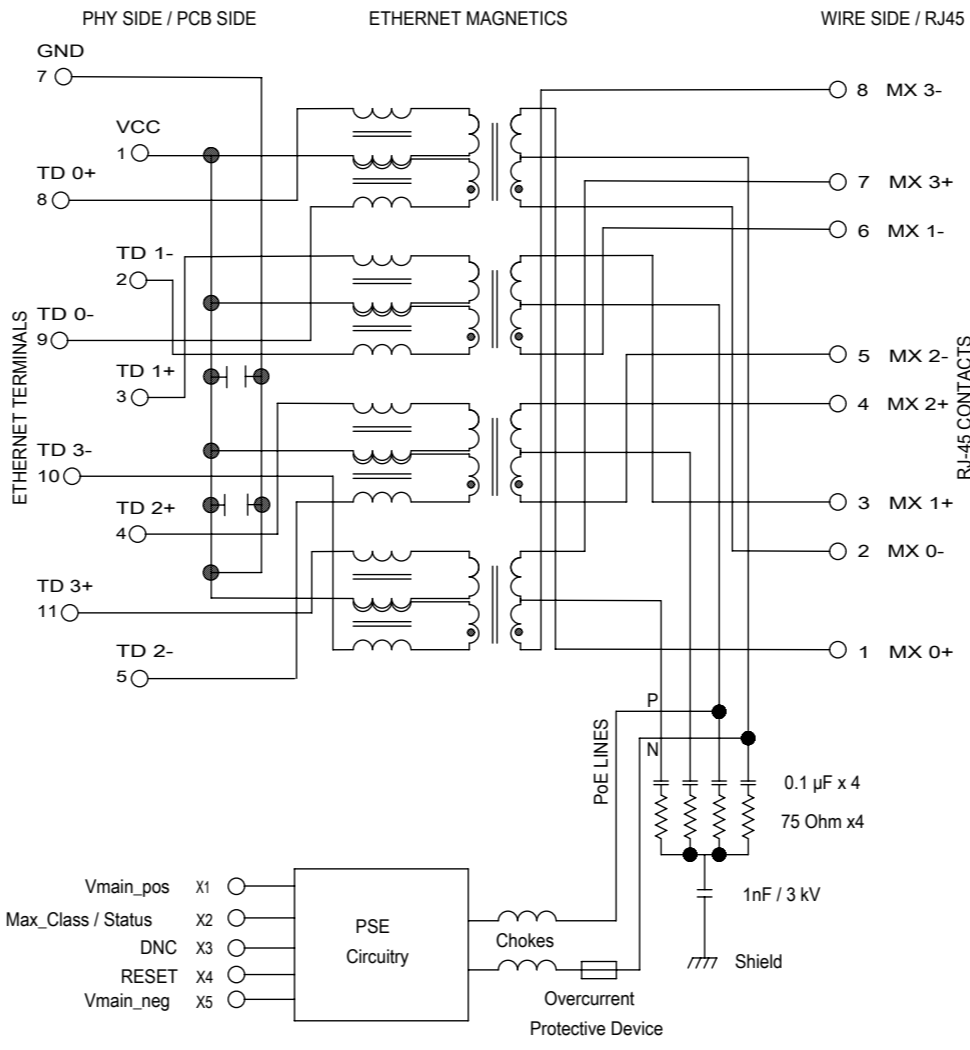


SCALE 1:1



THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
EC DESCRIPTION EC NO: 102949 DRWN: MFURKEL CHK'D: REV: C	2015/10/14	2016/03/14	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE	
			▽ = 0	ANGULAR TOL ± 0.5 °		MM	2:1		
			∇ = 0	4 PLACES ±	DRWN BY	DATE			
			∇ = 0	3 PLACES ±	MFURKEL	2015/06/11			
∇ = 0	2 PLACES ± 0.25	CHK'D BY	DATE						
∇ = 0	1 PLACE ± 0.2	APPR BY	DATE						GIGABIT MAGNETIC JACK POE PLUS ICM 1X1
∇ = 0	0 PLACES ±	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE		THIRD ANGLE PROJECTION		PRODUCT CUSTOMER DRAWING	
A3		A3		SERIES	MATERIAL NUMBER	CUSTOMER		GIGABIT MAGNETIC JACK POE PLUS ICM 1X1	
A3		A3		85759	SEE BOM / SHEET 3			PRODUCT CUSTOMER DRAWING	
REV				DOC TYPE		DOC PART		SHEET NUMBER	
C				PSD		000		1 OF 3	
REV				857591001					

Electrical Specifications @25°C		
Operating temperature (0°C to +70°C)		
Description	VALUE	
OCL POE+TRANSF. 20mA bias (0°C to +70°C)	350µH min.	
OCL NONPOE TRANSF. 8mA bias (0°C to +70°C)	350µH min.	
Turns Ratio	1CT:1CT	
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.)
1-9.9 MHz	27dB min.	27 @ 10MHz
10-100 MHz	27-17*log(F/10)	10 @ 100MHz
CMR		
Frequency (MHz)	Limits (dB min.)	TYPICAL Values (dB min.)
1-9.9 MHz	34dB min.	34 @ 10MHz
10-79.9 MHz	27dB min.	27 @ 80MHz
80-199.9 MHz	27-14.5*log(F/80)	21.5 @ 200MHz
200-399.9 MHz	21.5-39*log(F/200)	10 @ 400MHz
400-1000 MHz	10	10 @ 1000MHz
NEXT		
Frequency (MHz)	Limits (dB min.)	TYPICAL Values (dB min.)
1-5.9 MHz	50	50 @ 6MHz
6-49.9 MHz	45-16*log(F/10)	34 @ 50MHz
50-100 MHz	25-30*log(F/100)	25 @ 100MHz
Isolation PHY to Wire side	2.25kVDC/60sec	

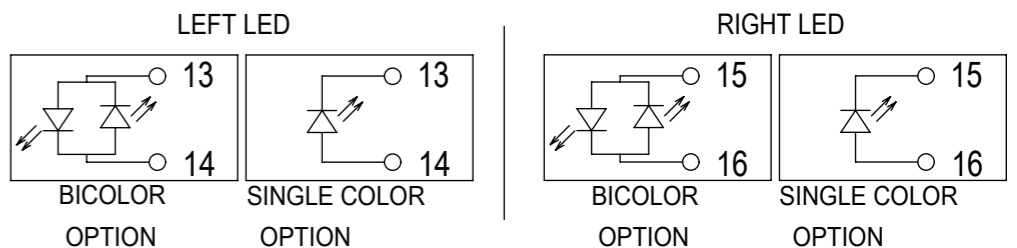


PART NUMBER AND LED OPTIONS

PART NUMBER	RIGHT LED			LEFT LED			COLOR 1
	PIN15	PIN16	COLOR	PIN13	PIN14	COLOR	
857591001	-	+	GRN	-	+	GRN	COLOR 1
857591003	-	+	GRN	-	+	GRN	COLOR 1
857591006	+	-	ORG				COLOR 2
857591006	-	+	GRN	-	+	YW	COLOR 1
857591020	NON LED						COLOR 2

CONTROL PINS

PIN	NAME	FUNCTION	PARAMETERS
X1	Vmain_pos	Vmain 51 to 56V DC IN	min. 470mA (Class0-3), min. 850mA (Class 4)
X2	Max_Class / Port Status	INPUT (power up): Set Max Class	To be set by resistors to Vmain_neg
		Class 1 only	10k
		Class 1 or 2 only	20k
		All except class 4	30k
		All classes including class 4	Open
		OUTPUT (powered): Power indication	high if PD is powered up by 1x1 PSE
X3	DNC	reserved	remain floating
X4	Reset	Reset	Reset or to disable PSE
X5	Vmain_neg	Vmain Reference	



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	DRWN BY	DATE	MFURKEL	2015/06/11	GIGABIT MAGNETIC JACK POE PLUS ICM 1X1	
	CHK'D BY	DATE				
	APPR BY	DATE			PRODUCT CUSTOMER DRAWING	
DRAWING SIZE		THIRD ANGLE PROJECTION		A3		SERIES: 85759 MATERIAL NUMBER: SEE BOM / SHEET 3 CUSTOMER:
DOCUMENT NUMBER: 857591001			DOC TYPE: PSD	DOC PART: 000	SHEET NUMBER: 3 OF 3	