

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

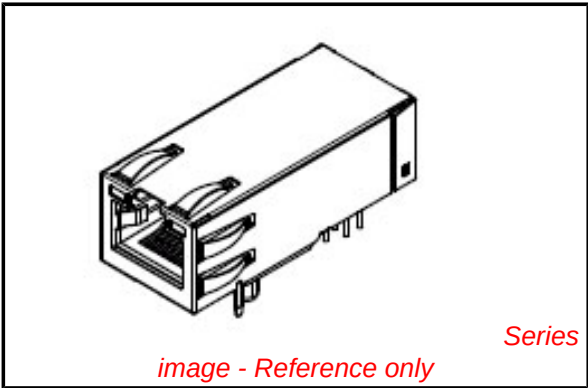
0857591003

Status:

Active

Description:

PoE PLUS PSE ICM 1x1 LEDs: GREEN - GREEN/ ORANGE



Documents:

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

General	
Product Family	Modular Jacks/Plugs
Series	85759
Component Type	PCB Jack
Magnetic	Yes
Performance Category	5e
Power over Ethernet (PoE)	PoE+
Product Name	HyperJack™PoE
Physical	
Durability (mating cycles max)	750
Inverted / Top Latch	Yes
Keying to Mating Part	Yes
Lightpipes/LEDs	LEDs
Orientation	Right Angle (Side Entry)
PCB Retention	None
Packaging Type	Tray
Panel Mount	No
Ports	1
Positions / Loaded Contacts	8/8
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-40°C to +80°C
Termination Interface: Style	Through Hole
Wire/Cable Type	N/A
Electrical	
Current - Maximum per Contact	1.5A
Grounding to PCB	Yes
Shielded	Yes
Voltage - Maximum	57V
Material Info	
Reference - Drawing Numbers	
Sales Drawing	SD-85759-001

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email productcompliance@molex.com

For a multiple part number RoHS Certificate of Compliance, [click here](#)

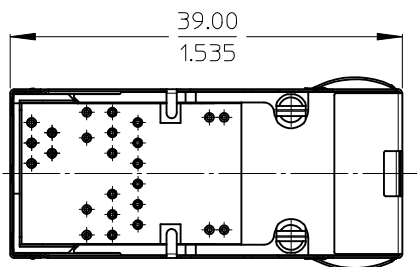
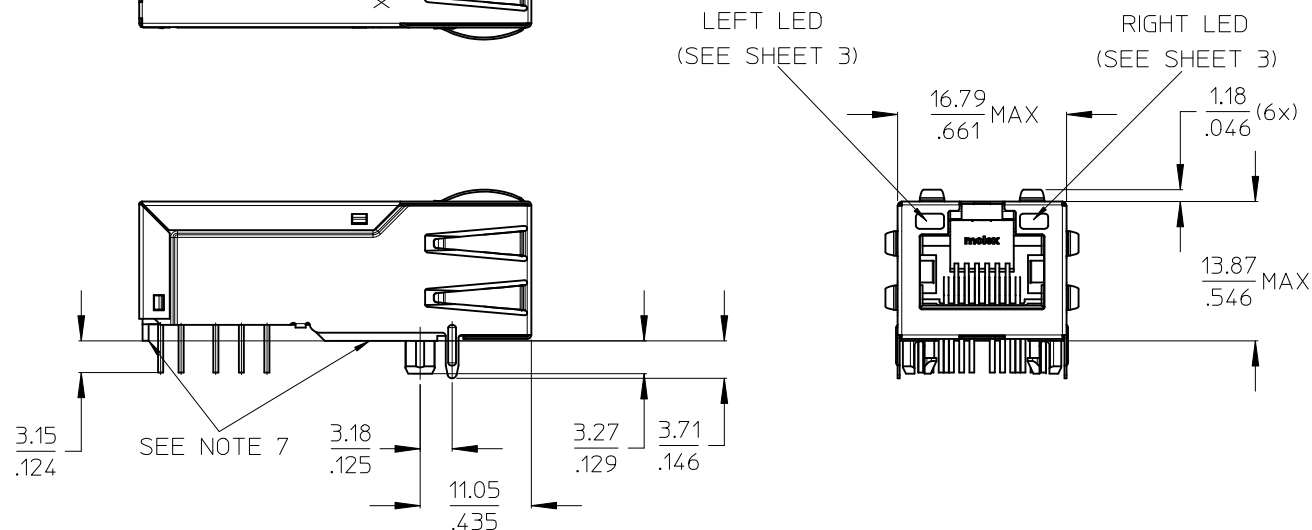
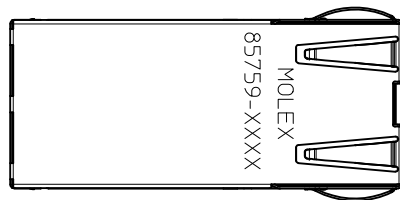
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

85759Series

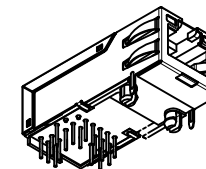
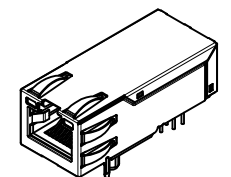
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GIGABIT SINGLE PORT MAGNETIC JACK WITH LEDS AND
INTEGRATED POWER OVER ETHERNET PLUS CONTROL CIRCUITRY
ACCORDING TO IEEE802.3at



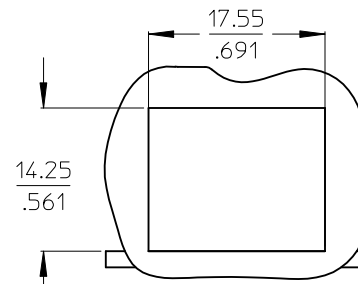
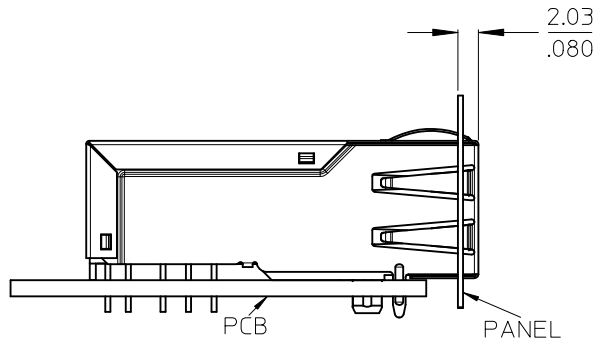
NOTES:

- 1 - SHIELD MATERIAL: STAINLESS STEEL
(GROUND PINS ARE SOLDER DIPPED)
- 2 - PLASTIC MATERIAL: PBT, BLACK, UL 94V-0
- 3 - TERMINALS MATERIAL: PHOSPHOR BRONZE CuSn8
RJ45 CONTACT PLATING: 1.27μm GOLD
OVER 1.9μm Ni ON MATING AREA
SOLDER TERMINALS: 3μm Sn
- 4 - JACK TO BE MATED WITH FCC 68.5 PLUGS /
IEC 60603-7 PLUGS
- 5 - PRODUCT SPECIFICATION: PS-85759-001
- 6 - PACKAGING SPECIFICATION: PK-85759-001
- 7 - STAND OFF TO SYSTEM BOARD



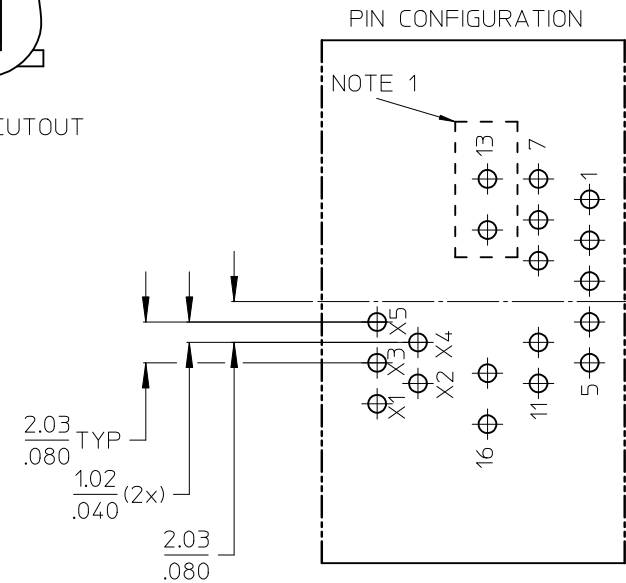
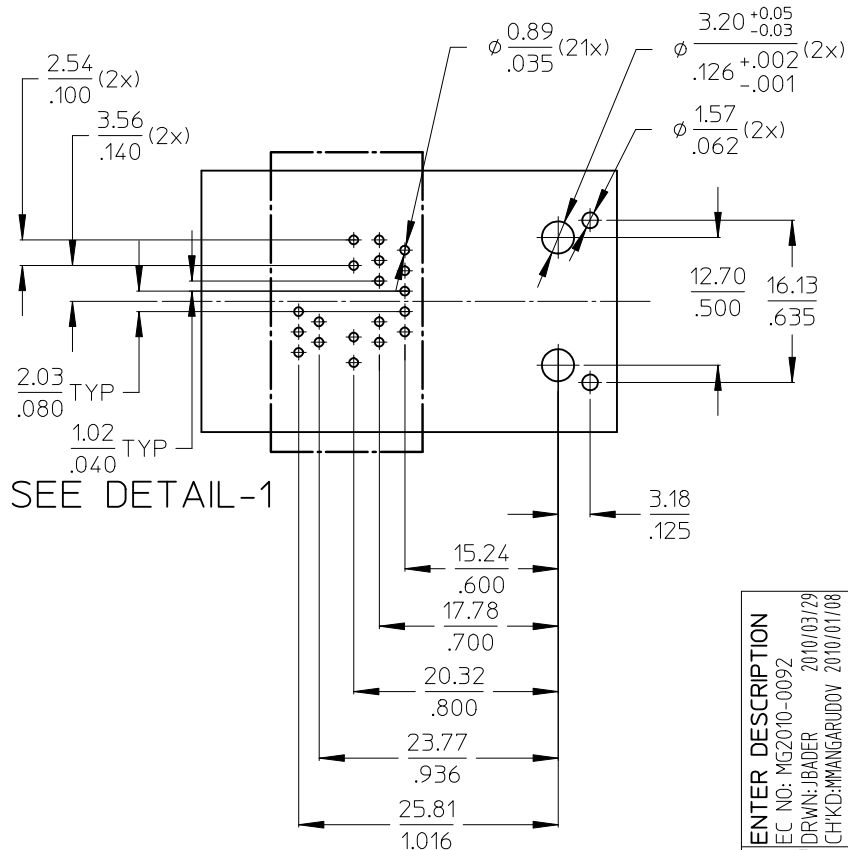
SCALE 1:1

ENTER DESCRIPTION EC NO: MG2010-0092 DRWN:JBADER 2010/03/29 CHKD:MMANGARUDOV 2010/01/08 APPR:SSTEINKE 2010/05/25		DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
						MM ONLY		2:1	METRIC				
						DRAWN BY DATE		TITLE HYPERJACK POE PLUS PSE ICM 1X1					
						JBADER 2009/11/13							
						CHECKED BY DATE		MOLEX INCORPORATED					
						MMANGARUDOV 2010/01/08							
						APPROVED BY DATE		SD-85759-001					
						SSTEINKE 2010/03/09							
						MATERIAL NO.		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
						SEE SHEET 3							
		SIZE A3											
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS											



SUGGESTED PANEL CUTOUT

SUGGESTED BOARD LAYOUT - COMPONENT SIDE

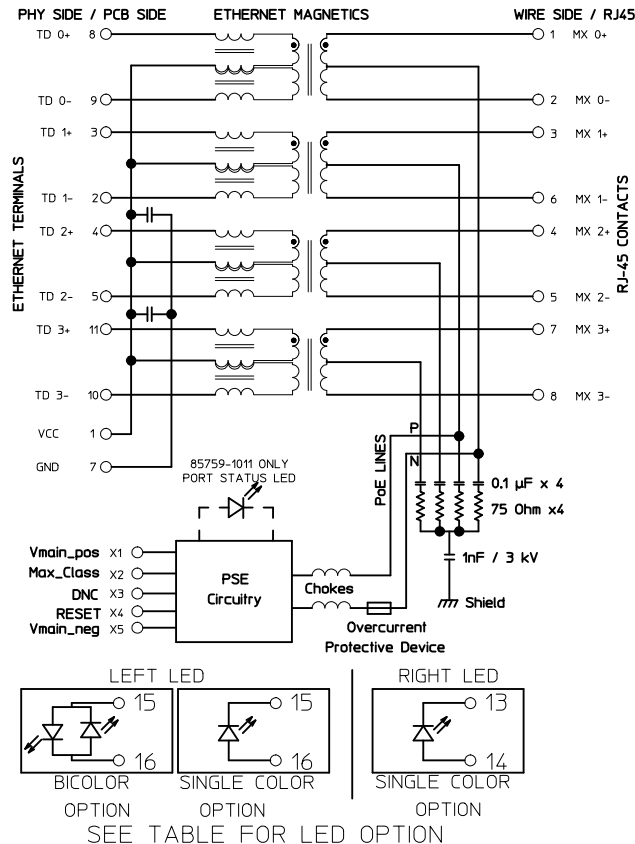


DETAIL-1
SCALE 4:1

NOTE:
1 - PINS 13 AND 14 NOT PRESENT ON VERSION
WITH INTEGRATED POWER INDICATION LED

ENTER DESCRIPTION EC NO: MG2010-0092 DRWN: JBADER 2010/03/29 CHKD: MMANGARUDOV 2010/01/08 APPR: SSTEINKE 2010/05/25	DESCRIPTION	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mmINCH		DRAWN BY JBADER		DATE 2009/11/13	TITLE HYPERJACK POE PLUS PSE ICM 1X1			
			4 PLACES ± --- ± ---		CHECKED BY MMANGARUDOV		DATE 2010/01/08				
			3 PLACES ± --- ± ---		APPROVED BY SSTEINKE		DATE 2010/03/09	MOLEX INCORPORATED			
			2 PLACES ± 0.05 ± ---		MATERIAL NO. SEE SHEET 3		DOCUMENT NO. SD-85759-001				
			1 PLACE ± 0.10 ± ---		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
			ANGULAR ± .5 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						

Electrical Specifications @25°C		
Operating temperature (0°C to +70°C)		
Description	Value	
OCL POE+TRANSF. 24mA bias (0°C to +70°C)	350mH min.	
OCL NONPOE TRANSF. 8mA bias (0°C to +70°C)	350mH 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	LEFT LED			RIGHT LED			COLOR 1
	PIN15	PIN16	COLOR	PIN13	PIN14	COLOR	
85759-1001	-	+	GREEN	-	+	GREEN	COLOR 1
85759-1003	-	+	GREEN	-	+	GREEN	COLOR 2
85759-1006	-	+	GREEN	-	+	YELLOW	COLOR 2

VERSION WITH INTEGRATED PoE POWER INDICATION LED

PART NUMBER	LEFT LED			RIGHT LED			COLOR 1
	PIN15	PIN16	COLOR	PIN13	PIN14	COLOR	
85759-1011	-	+	GREEN	NOT PRESENT		ORANGE	

ADDITIONAL LED COLORS AND CONFIGURATIONS AVAILABLE ON REQUEST

PIN	NAME	FUNCTION	PARAMETERS
X1	Vmain_pos	Vmain 51 to 56V DC IN	min. 470mA (Class0-3), min. 1000mA (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
X3	DNC	OUTPUT (powered): Power indication	high if PD is powered up by 1x1 PSE
		reserved	remain floating
X4	Reset	Reset	Reset or to disable PSE
X5	Vmain_neg	Vmain Reference	

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				mm	INCH	DRAWN BY JBADER	DATE 2009/11/13	TITLE HYPERJACK POE PLUS PSE ICM 1X1		
			4 PLACES	± ---	± ---	CHECKED BY	DATE			
			3 PLACES	± ---	± ---	MMANGARUDOV	2010/01/08			
			2 PLACES	± 0.05	± ---	APPROVED BY	DATE			
			1 PLACE	± 0.10	± ---	SSTEINKE	2010/03/09			
			ANGULAR ± .5 °		MATERIAL NO.		DOCUMENT NO.	MOLEX INCORPORATED 		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE BOM		SD-85759-001			SHEET NO. 3 OF 3
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
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