

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0857891003](#)
Status: **Active**
Description: PoE PLUS ENABLED ICM 1x1 LEDs: GREEN - GREEN/ORANGE

Documents:

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	Modular Jacks/Plugs
Series	85789
Component Type	PCB Jack
Magnetic	Yes
Performance Category	5
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-85789-001
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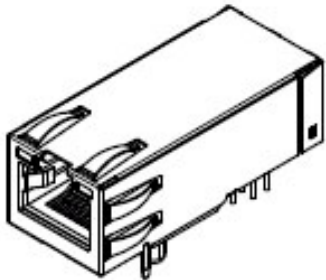


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**
**REACH SVHC
Not Reviewed**
**Halogen-Free
Status**

China RoHS



**Need more information on product
environmental compliance?**

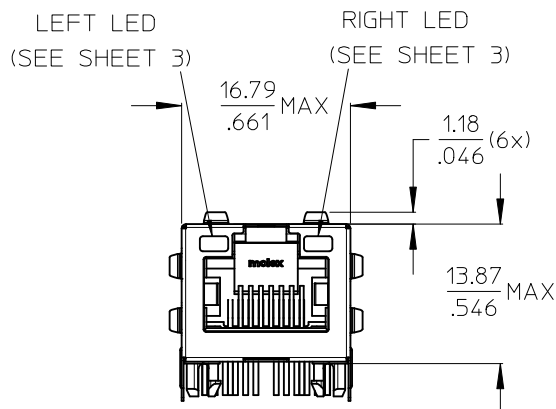
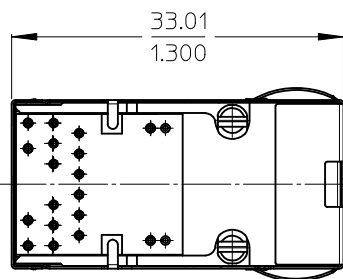
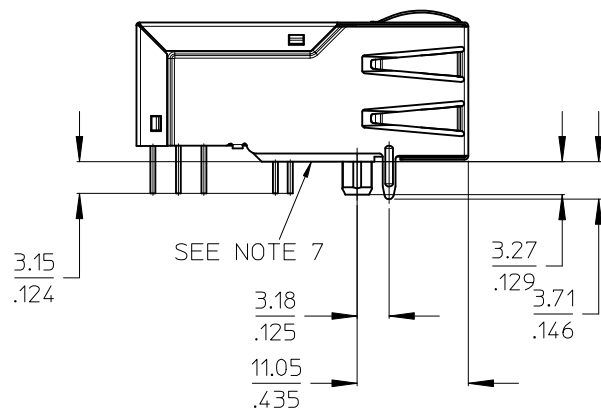
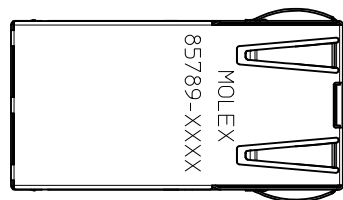
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of
Compliance, [click here](#)

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

Search Parts in this Series
[85789Series](#)

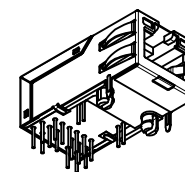
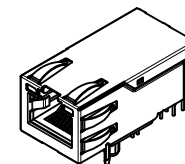
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

GIGABIT SINGLE PORT MAGNETIC JACK WITH LEDs
PoE+ MAGNETICS ACC. TO IEEE802.3at FOR PSE OR PD APPLICATIONS



NOTES:

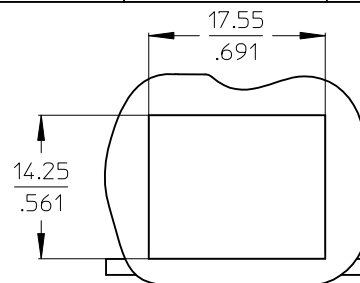
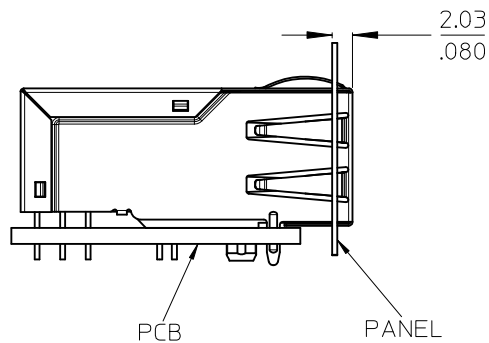
- 1 - SHIELD MATERIAL: STAINLESS STEEL
(GROUND PINS ARE SOLDER DIPPED)
- 2 - PLASTIC MATERIAL: PBT, BLACK, UL 94V-0
- 3 - TERMINALS MATERIAL: PHOSPOR BRONZE CuSn8
RJ45 CONTACTS PLATING: 1.27μm GOLD OVER
1.9μm Ni ON MATING AREA
SOLDER TERMINALS: 3μm Sn
- 4 - JACK TO BE MATED WITH FCC 68.5 PLUGS /
IEC 60603-7 PLUGS
- 5 - PRODUCT SPECIFICATION: PS-85789-001
- 6 - PACKAGING SPECIFICATION: PK-85759-001
- 7 - STAND OFF TO SYSTEM BOARD



SCALE 1:1

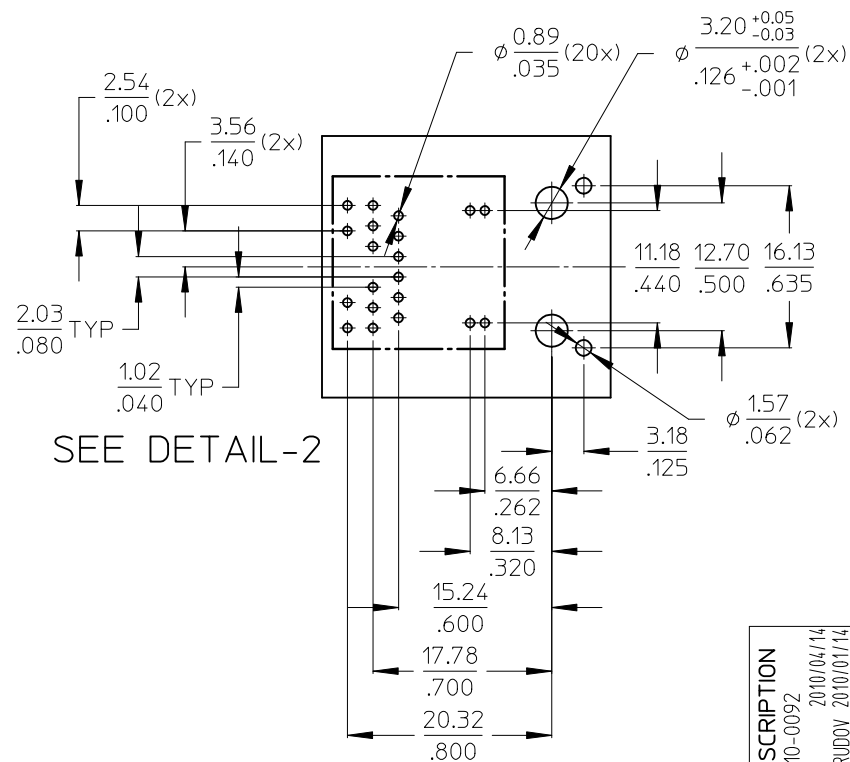
ENTER DESCRIPTION EC NO: MG2010-0092 DRWN:JBADER 2010/04/14 CHKD:MMANGARUDOV 2010/01/14 APPR:SSSTE INKE 2010/05/25		DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION				
				mmINCH		DRAWN BYDATE		TITLE HYPERJACK POE PLUS ENABLED 1X1 4P						
				4 PLACES± --- ± ---		JBADER2010/01/14								
				3 PLACES± --- ± ---		CHECKED BYDATE								
				2 PLACES± 0.05 ± ---		MMANGARUDOV2010/01/14								
				1 PLACE± 0.10 ± ---		APPROVED BYDATE								
				ANGULAR ± .5 °		SSTEINKE2010/03/09		 MOLEX INCORPORATED						
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.					DOCUMENT NO.			
								SEE SHEET 3			SD-85789-001		SHEET NO. 1 OF 3	

2	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
		SIZE A3	

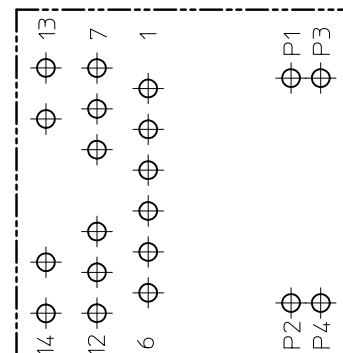


SUGGESTED PANEL CUTOUT

SUGGESTED BOARD LAYOUT - COMPONENT SIDE



PIN CONFIGURATION



DETAIL-2
SCALE 4:1

ENTER DESCRIPTION
EC NO: MG2010-0092
DRWN: JBADER 2010/04/14
CHKD: MMANGARUDOV 2010/01/14
APPR: SSTE INKE 2010/05/25
REV
2

QUALITY SYMBOLS
▽=0
▽=0

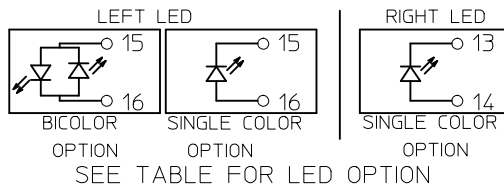
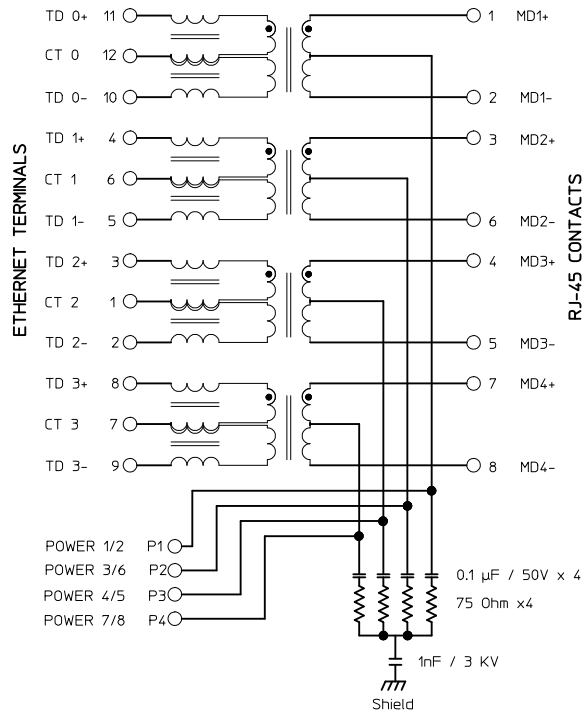
GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.05	± ---
1 PLACE	± 0.10	± ---
ANGULAR ± .5 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	SCALE	DESIGN UNITS
MM ONLY	2:1	METRIC
DRAWN BY	DATE	TITLE
JBADER	2010/01/14	HYPERJACK POE PLUS
CHECKED BY	DATE	ENABLED 1X1 4P
MMANGARUDOV	2010/01/14	
APPROVED BY	DATE	
SSTE INKE	2010/03/09	
MATERIAL NO.		
SEE SHEET 3		

MOLEX INCORPORATED	SHEET NO.
SD-85789-001	2 OF 3
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

Electrical Specifications @25°C		
Operating temperature (0°C to +70°C)		
Description	Value	
OCL POE+TRANSF. 24mA 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	

PHY SIDE / PCB SIDE ETHERNET MAGNETICS WIRE SIDE / RJ45

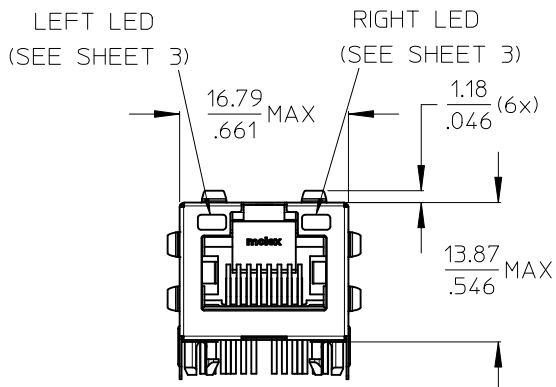
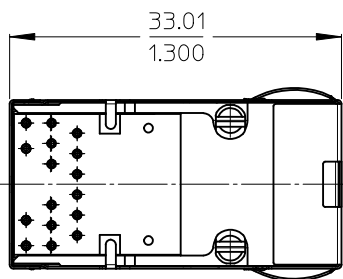
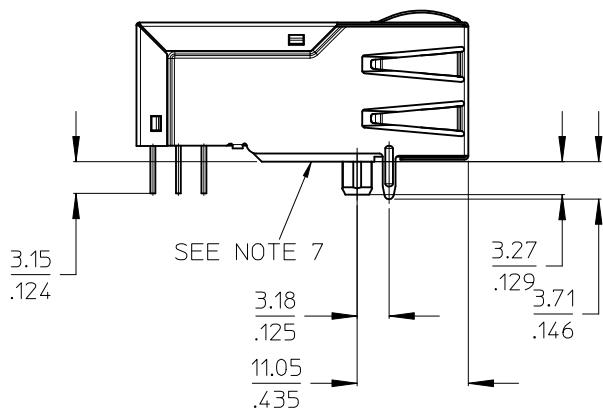
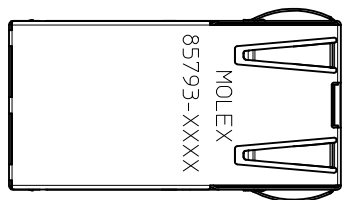


PART NUMBER	LED1 POLARITY			LED2 POLARITY		
	LEFT LED			RIGHT LED		
	PIN15	PIN16	COLOUR	PIN13	PIN14	COLOUR
85789-1001	-	+	GREEN	-	+	GREEN
85789-1003	-	+	GREEN	-	+	GREEN
85789-1006	-	+	GREEN	-	+	YELLOW

ADDITIONAL LED COLORS AND CONFIGURATIONS AVAILABLE ON REQUEST

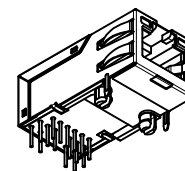
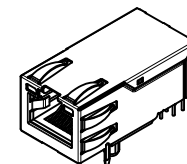
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				mm	INCH	DRAWN BY JBADER	DATE 2010/01/14	TITLE HYPERJACK POE PLUS ENABLED 1X1 4P			
			4 PLACES	± ---	± ---	CHECKED BY MMANGARUDOV	DATE 2010/01/14				
			3 PLACES	± ---	± ---	APPROVED BY SSTE INKE	DATE 2010/03/09	MOLEX INCORPORATED			
			2 PLACES	± 0.05	± ---	MATERIAL NO.					
			1 PLACE	± 0.10	± ---	SEE BOM		SD-85789-001	3 OF 3		
			ANGULAR ± .5 °								
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								

GIGABIT SINGLE PORT MAGNETIC JACK WITH LEDs



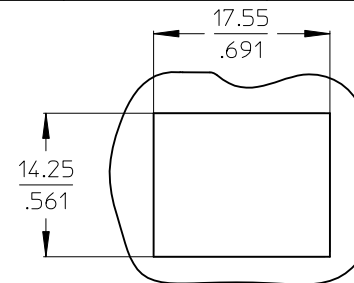
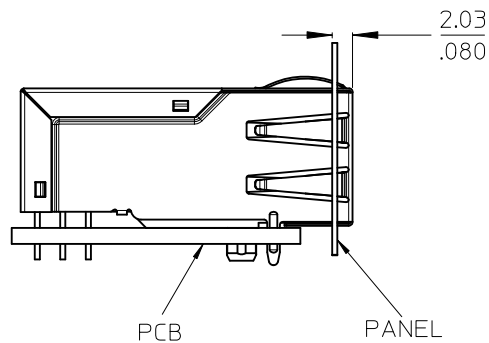
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- 6 - PACKAGING SPECIFICATION: PK-85759-001
- 7 - STAND OFF TO SYSTEM BOARD



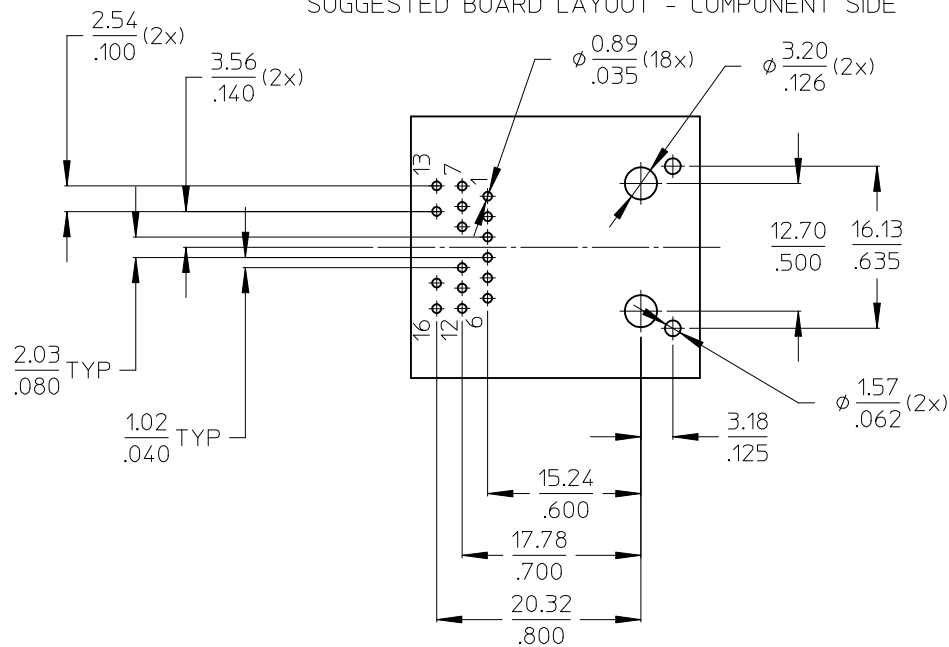
SCALE 1:1

ENTER DESCRIPTION EC NO: MG2010-0092 DRWN:JBADER 2010/04/16 CHKD:MMANGARUDOV 2010/04/16 APPR:SSSTEINKE 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		
				mm	INCH	DRAWN BY JBADER	DATE 2010/04/16	TITLE HYPERJACK 1000 BASE-T 1X1				
1	REV			4 PLACES	± ---	± ---	CHECKED BY MMANGARUDOV			DATE 2010/04/16	MOLEX INCORPORATED	
				3 PLACES	± ---	± ---	APPROVED BY SSTEINKE	DATE 2010/05/21				
				2 PLACES	± 0.05	± ---	MATERIAL NO. SEE SHEET 3		DOCUMENT NO. SD-85793-101	SHEET NO. 1 OF 3		
				1 PLACE	± 0.10	± ---						
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ± .5 °						
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												



SUGGESTED PANEL CUTOUT

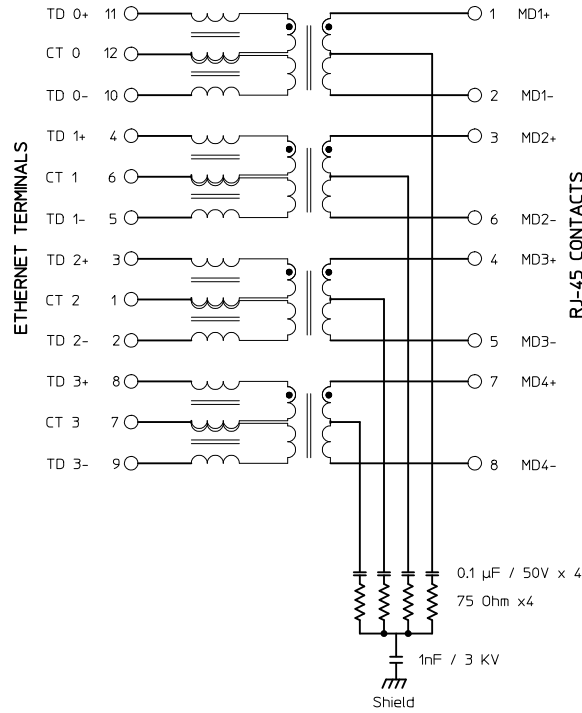
SUGGESTED BOARD LAYOUT - COMPONENT SIDE



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			▽=0 ◁=0				DRAWN BY DATE		TITLE HYPERJACK 1000 BASE-T 1X1			
							JBADER 2010/04/16					
							CHECKED BY DATE		MOLEX INCORPORATED			
							MMANGARUDOV 2010/04/16					
							APPROVED BY DATE		DOCUMENT NO. SD-85793-101			
							SSTE INKE 2010/05/21					
							MATERIAL NO.		SHEET NO. 2 OF 3			
							DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
1		REV										

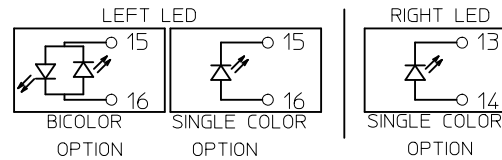
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PHY SIDE / PCB SIDE ETHERNET MAGNETICS WIRE SIDE / RJ45



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85793-1003	-	+	GREEN	-	+	GREEN
85793-1006	-	+	GREEN	-	+	YELLOW

ADDITIONAL LED COLORS AND CONFIGURATIONS AVAILABLE ON REQUEST



SEE TABLE FOR LED OPTION

ENTER DESCRIPTION		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
EC NO: MG2010-0092		DRWN: JBADER		mm		MM ONLY		5:1	METRIC	DRAWN BY DATE	
1		CHKD: MMANGARUDOV		INCH		4 PLACES ± --- ± ---		JBADER 2010/04/16		CHECKED BY DATE	
		APPR: SSTE INKE		2 PLACES ± 0.05 ± ---		3 PLACES ± --- ± ---		MMANGARUDOV 2010/04/16		APPROVED BY DATE	
				1 PLACE ± 0.10 ± ---		ANGULAR ± .5 °		SSTE INKE 2010/05/21		MATERIAL NO.	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE BOM		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		TITLE	
										HYPERJACK 1000 BASE-T 1X1	
										MOLEX INCORPORATED	
										SD-85793-101	
										SHEET NO. 3 OF 3	

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru

www.lifeelectronics.ru