This document was generated on 05/26/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0857891003

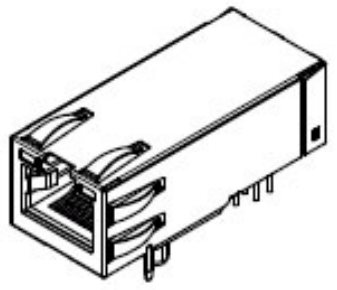
Status: Active

Description: PoE PLUS ENABLED ICM 1x1 LEDs: GREEN - GREEN/ORANGE

Documents:

Drawing (PDF)

RoHS Certificate of Compliance (PDF)



Series image - Reference only

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

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.

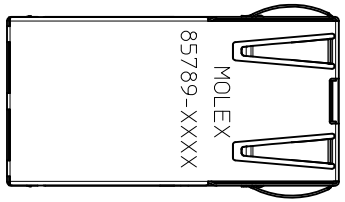
Search Parts in this Series
85789Series

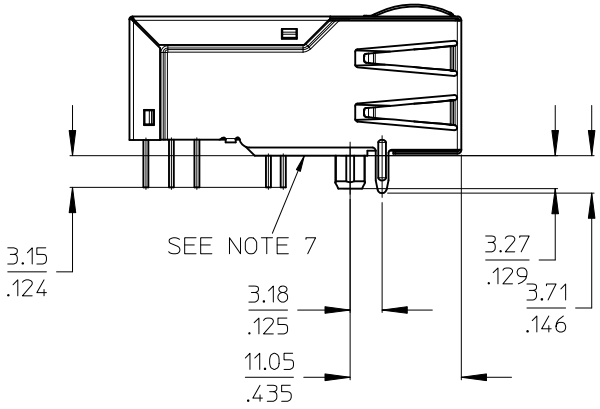
This document was generated on 05/26/2010

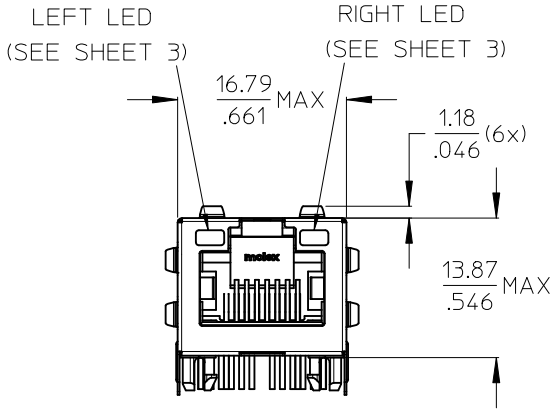
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

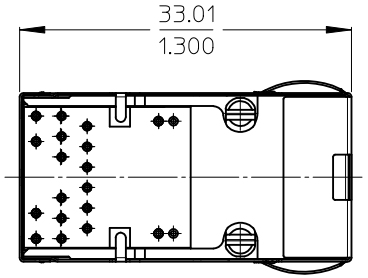
GIGABIT SINGLE PORT MAGNETIC JACK WITH LEDs

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

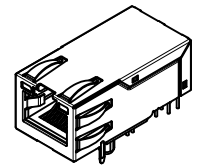
3 - TERMINALS MATERIAL: PHOSPOR BRONZE CuSn8
RJ45 CONTACTS PLATING: 1.27µm GOLD OVER
1.9µm Ni ON MATING AREA
SOLDER TERMINALS: 3µm Sn

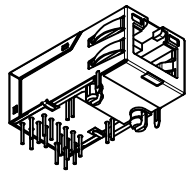
4 - JACK TO BE MATED WITH FCC 68.5 PLUGS /
IEC 60603-7 PLUGS

5 - PRODUCT SPECIFICATION: PS-85789-001

6 - PACKAGING SPECIFICATION: PK-85759-001

7 - STAND OFF TO SYSTEM BOARD





SCALE 1:1

ENTER DESCRIPTION	DESCRIPTION
EC NO: MG2010-0092	2010/04/14
DRWN: JBADER	2010/01/14
CH'KD: MMANGARUDOV	2010/01/14
APPR: SSTEINKE	2010/05/25
2	REV

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

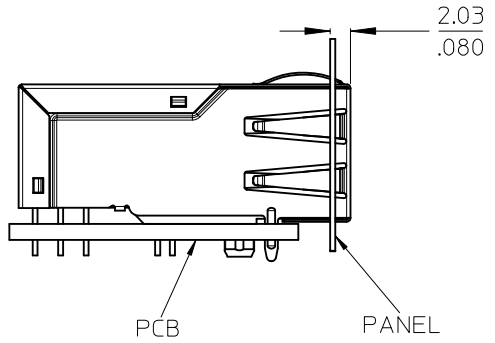
DIMENSION STYLE: MM ONLY	SCALE: 2:1	DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION		
DRAWN BY: JBADER	DATE: 2010/01/14	
CHECKED BY: MMANGARUDOV	DATE: 2010/01/14	
APPROVED BY: SSTEINKE	DATE: 2010/03/09	
MATERIAL NO.: SEE SHEET 3		
SIZE: A3		

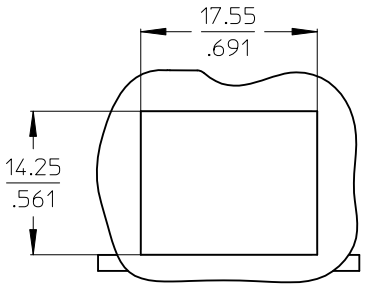
TITLE: HYPERJACK POE PLUS ENABLED 1X1 4P

MOLEX INCORPORATED

DOCUMENT NO.: SD-85789-001

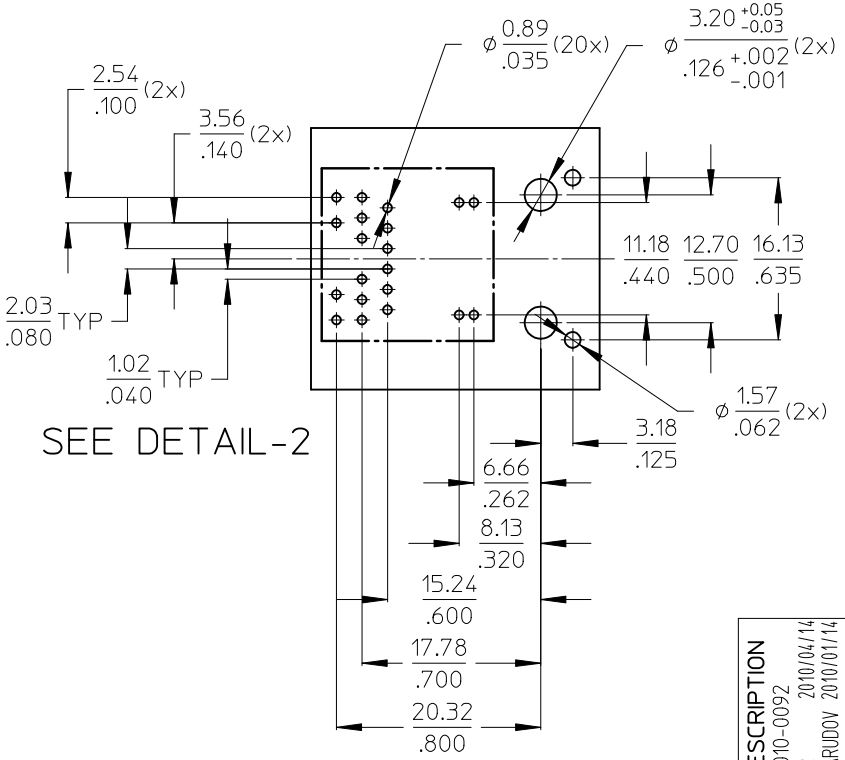
SHEET NO.: 1 OF 3



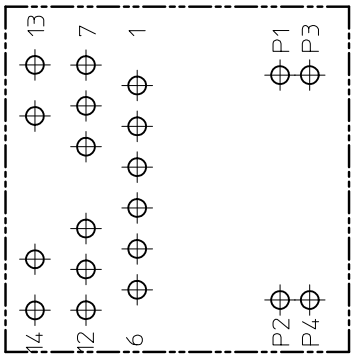


SUGGESTED PANEL CUTOUT

SUGGESTED BOARD LAYOUT - COMPONENT SIDE



PIN CONFIGUARTION

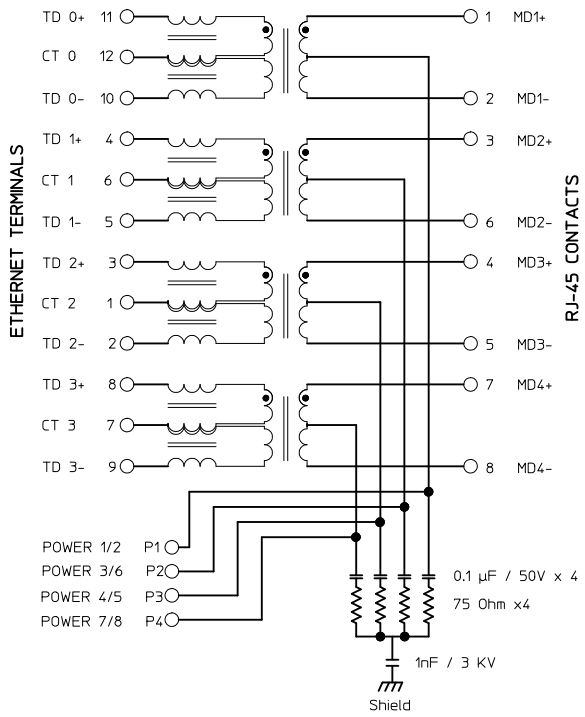


DETAIL-2
SCALE 4:1

ENTER DESCRIPTION EC NO: MG2010-0092 2010/04/14 DRWN:JBADER 2010/01/14 CH'KD:MMANGARUDOV 2010/01/14 APPR:SSTEINKE 2010/05/25	DESCRIPTION	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: MM ONLY	SCALE: 2:1	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
				DRAWN BY: JBADER DATE: 2010/01/14 CHECKED BY: MMANGARUDOV DATE: 2010/01/14 APPROVED BY: SSTEINKE DATE: 2010/03/09 MATERIAL NO.: SEE SHEET 3	TITLE: HYPERJACK POE PLUS ENABLED 1X1 4P molex MOLEX INCORPORATED DOCUMENT NO.: SD-85789-001 SHEET NO.: 2 OF 3		
2	REV			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

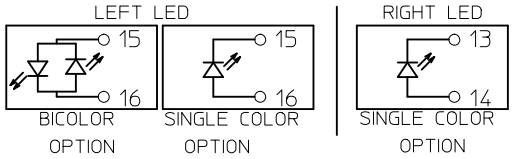
Electrical Specifications @25°C		
Operating temperature (0°C to +70°C)		
Description	Value	
OCL POE+TRANSF. 24mA bias (0°C to +70°C)	350µH min.	
OCL NONPOE TRANSF. 8mA bias (0°C to +70°C)	350µH min.	
Turns Ratio	1CT:1CT	
Insertion Loss		
Frequency (MHz)	Limits (dB max.)	Typical Values (dB max.)
1.0-9.9 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
	+	-	ORANGE			
85789-1006	-	+	GREEN	-	+	YELLOW

ADDITIONAL LED COLORS AND CONFIGURATIONS AVAILABLE ON REQUEST



SEE TABLE FOR LED OPTION

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

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: MM ONLY
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JBADER DATE: 2010/01/14
CHECKED BY: MMANGARUDOV DATE: 2010/01/14
APPROVED BY: SSTEINKE DATE: 2010/03/09
MATERIAL NO.: SEE BOM

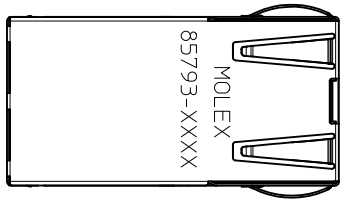
TITLE: HYPERJACK POE PLUS ENABLED 1X1 4P

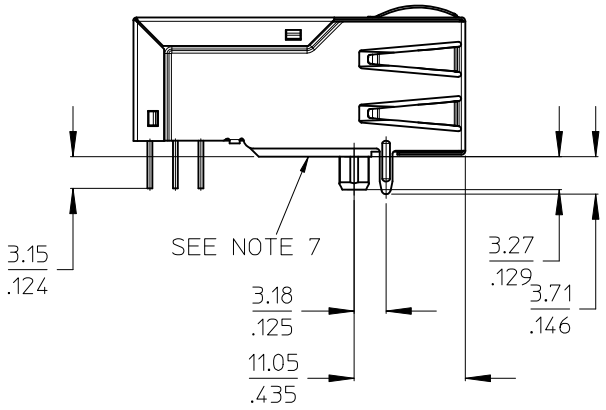
molex MOLEX INCORPORATED

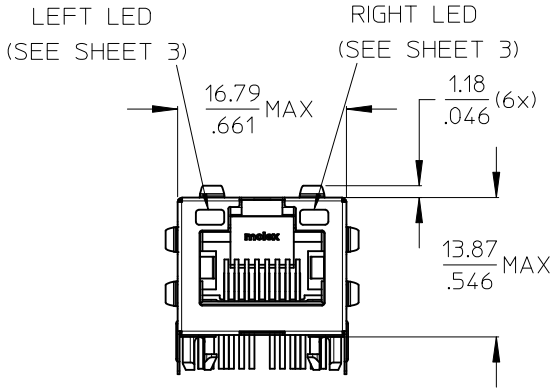
DOCUMENT NO.: SD-85789-001
SHEET NO.: 3 OF 3

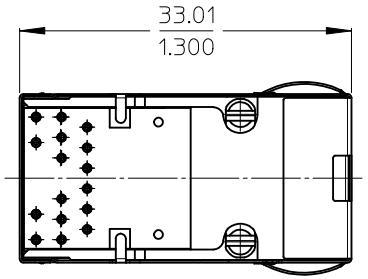
SIZE A3

GIGABIT SINGLE PORT MAGNETIC JACK WITH LEDs



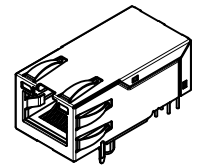


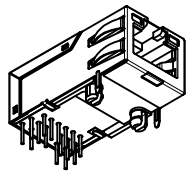




NOTES:

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-85793-001
6 - PACKAGING SPECIFICATION: PK-85759-001
7 - STAND OFF TO SYSTEM BOARD





SCALE 1:1

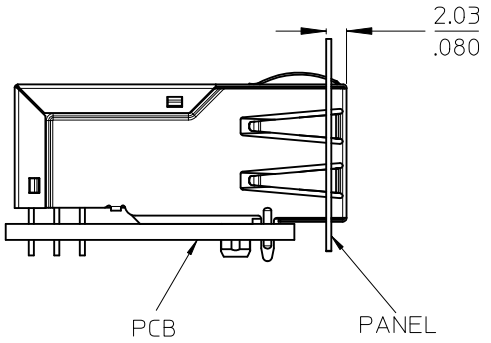
ENTER DESCRIPTION			
EC NO: MG2010-0092	2010/04/16		
DRWN: JBADER	2010/04/16		
CH'KD: MMANGARUDOV	2010/05/25		
APPR: SSTEINKE		DESCRIPTION	
1		REV	

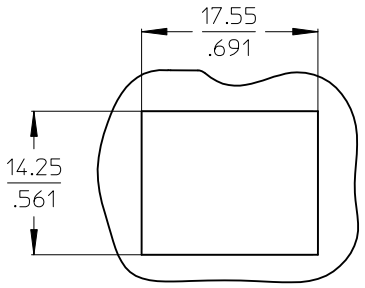
QUALITY SYMBOLS
▼=0
▽=0

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

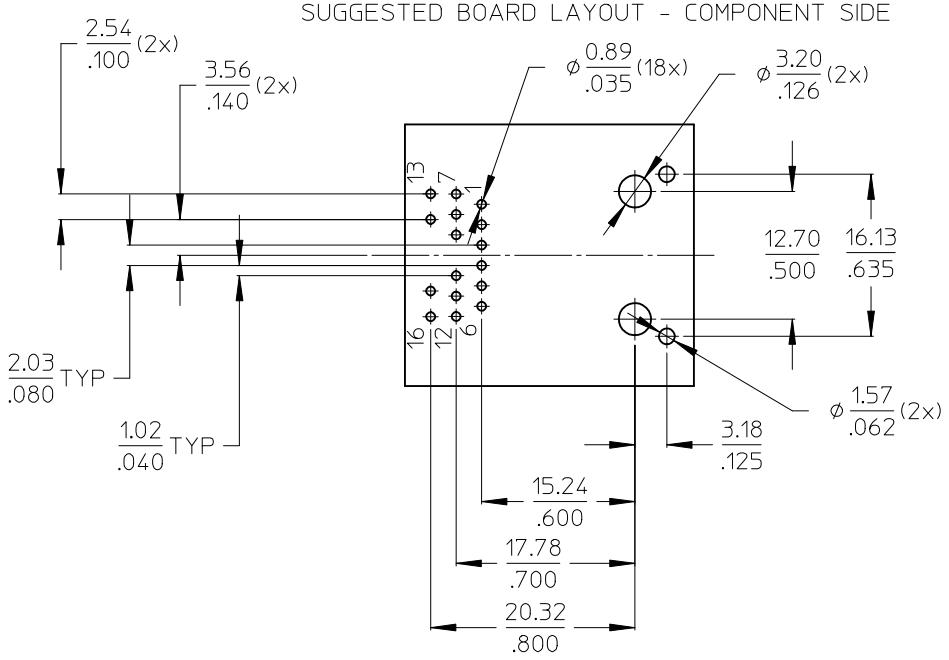
DIMENSION STYLE: MM ONLY	SCALE: 2:1	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION		
DRAWN BY: JBADER	DATE: 2010/04/16	TITLE: HYPERJACK 1000 BASE-T 1X1			
CHECKED BY: MMANGARUDOV	DATE: 2010/04/16				
APPROVED BY: SSTEINKE	DATE: 2010/05/21	MOLEX INCORPORATED			
MATERIAL NO.: SEE SHEET 3		DOCUMENT NO.: SD-85793-101		SHEET NO.: 1 OF 3	
SIZE: A3					





SUGGESTED PANEL CUTOUT

SUGGESTED BOARD LAYOUT - COMPONENT SIDE



ENTER DESCRIPTION			
EC NO: MG2010-0092	2010/04/16		
DRWN: JBADER	2010/04/16		
CH'KD: MMANGARUDOV	2010/04/16		
APPR: SSTEINKE	2010/05/25		
DESCRIPTION			
1	REV		

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

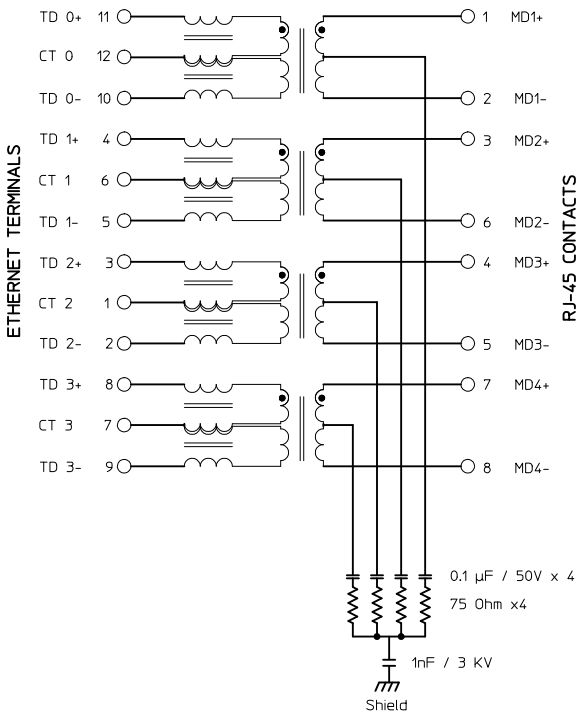
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.05	± ---
1 PLACE	± 0.10	± ---
ANGULAR ± .5 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	2:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY / DATE	JBADER 2010/04/16
CHECKED BY / DATE	MMANGARUDOV 2010/04/16
APPROVED BY / DATE	SSTEINKE 2010/05/21
MATERIAL NO.	SEE SHEET 3
TITLE	HYPERJACK 1000 BASE-T 1X1
	MOLEX INCORPORATED
DOCUMENT NO.	SD-85793-101
SHEET NO.	2 OF 3
SIZE	A3

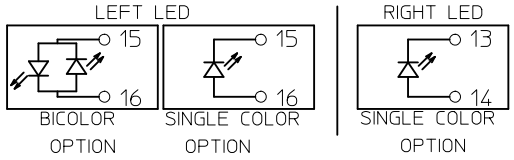
Electrical Specifications @25°C		
Operating temperature (0°C to +70°C)		
Description	Value	
OCL POE+TRANSF. 24mA bias (0°C to +70°C)	350µH min.	
OCL NONPOE TRANSF. 8mA bias (0°C to +70°C)	350µH min.	
Turns Ratio	1CT:1CT	
Insertion Loss		
Frequency (MHz)	Limits (dB max.)	Typical Values (dB max.)
1.0-9.9 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
85793-1001	-	+	GREEN	-	+	GREEN
85793-1003	-	+	GREEN	-	+	GREEN
	+	-	ORANGE			
85793-1006	-	+	GREEN	-	+	YELLOW

ADDITIONAL LED COLORS AND CONFIGURATIONS AVAILABLE ON REQUEST



SEE TABLE FOR LED OPTION

ENTER DESCRIPTION
EC NO: MG2010-0092 2010/04/16
DRWN: JBADER 2010/04/16
CHKD: MMANGARUDOV 2010/04/16
APPR: SSTEINKE 2010/05/25
DESCRIPTION
1
REV

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: MM ONLY
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JBADER DATE: 2010/04/16
CHECKED BY: MMANGARUDOV DATE: 2010/04/16
APPROVED BY: SSTEINKE DATE: 2010/05/21

TITLE: HYPERJACK 1000 BASE-T 1X1

MOLEX INCORPORATED

MATERIAL NO.: SEE BOM
DOCUMENT NO.: SD-85793-101
SHEET NO.: 3 OF 3
SIZE: A3

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:
moschip.ru
moschip.ru_4
moschip.ru_6
moschip.ru_9