

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0480250091

Status:

Active

Overview:

magnetic_modular_jacks

Description:

Modular Jack, Right Angle, 10/100, with Integrated Magnetic and LED, 8/8, Tail Length 3.18mm (.125") for IR Reflow, Lead free

Documents:

3D Model

Drawing (PDF)

Product Specification PS-48025-005 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

CSA

LR19980

UL

E107635

General

Product Family

Modular Jacks/Plugs

Series

48025

Comments

With LED

Component Type

PCB Jack

Magnetic

Yes

Overview

magnetic_modular_jacks

Performance Category

5

Power over Ethernet (PoE)

Non-PoE

Product Name

Magnetic Jack

Physical

Boot Color

N/A

Color - Resin

Black

Durability (mating cycles max)

750

Flammability

94V-0

Inverted / Top Latch

Yes

Keying to Mating Part

Yes

Lightpipes/LEDs

LEDs

Material - Metal

Brass, Phosphor Bronze

Material - Plating Mating

Gold

Material - Plating Termination

Tin

Material - Resin

Nylon

Orientation

Right Angle (Side Entry)

PCB Locator

Yes

PCB Retention

Yes

PCB Thickness Recommended (in)

0.063 In

PCB Thickness Recommended (mm)

1.60 mm

Packaging Type

Tray

Pitch - Mating Interface (in)

0.050 In

Pitch - Mating Interface (mm)

1.27 mm

Pitch - Term. Interface (in)

0.050 In

Pitch - Term. Interface (mm)

1.27 mm

Ports

1

Positions / Loaded Contacts

8/8

Surface Mount Compatible (SMC)

No

Temperature Range - Operating

-40°C to +70°C

Termination Interface: Style

Through Hole

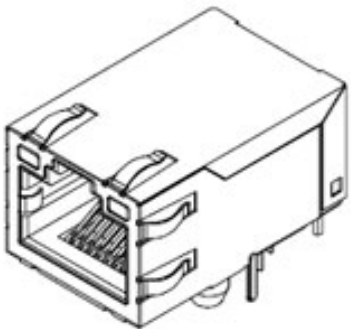
Waterproof / Dustproof

No

Wire/Cable Type

N/A

Electrical



Series

image - Reference only

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

48025Series

Mates With

FCC 68 Plugs

Current - Maximum per Contact	1.5A
Grounding to PCB	Yes
Grounding to Panel	Panel Ground Tab
Shielded	Yes
Voltage - Maximum	150V AC (RMS)

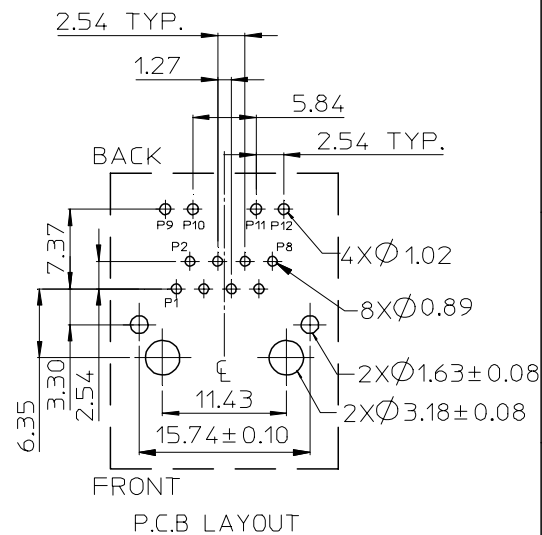
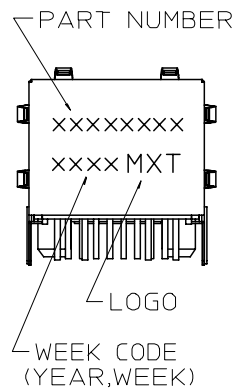
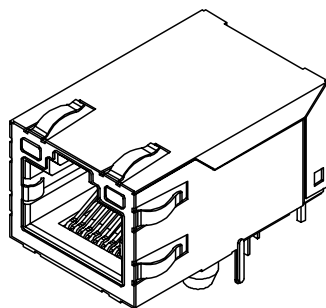
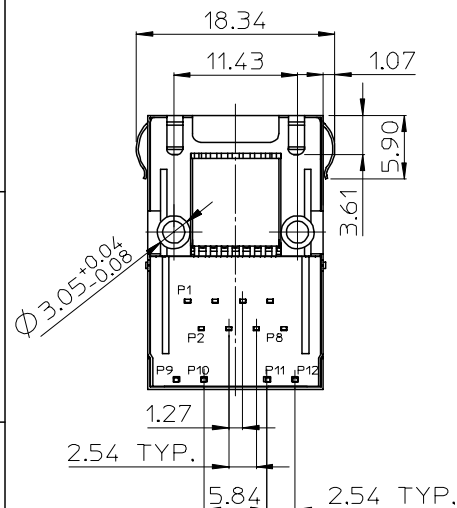
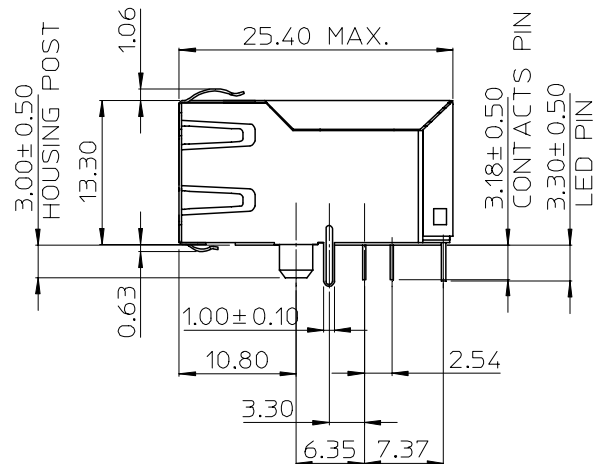
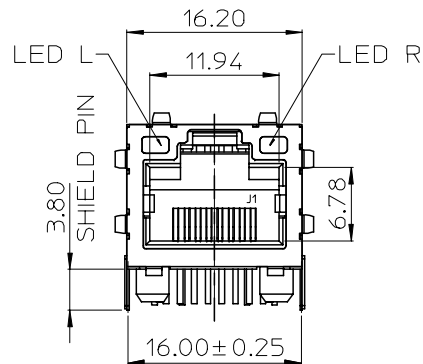
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-48025-001
Product Specification	PS-48025-005
Sales Drawing	SD-48025-007
Test Summary	TS-48025-007

This document was generated on 05/26/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



NOTES:

1.MATERIAL:

METAL SHELL: BRASS
HOUSING: POLYAMIDE, GLASS FIBER FILLED, UL94-0,COLOR BLACK
INSERT: POLYAMIDE, GLASS FIBER FILLED, UL94-0,COLOR BLACK
TERMINAL: PHOSPHOR BRONZE

2.PLATING:

TERMINAL:
CONTACT AREA: GOLD(Au),THICKNESS=50 MICROINCH/1.27 MICROMETER
SOLDER TAIL: TIN(Sn),THICKNESS=100 MICROINCH MINIMUM
UNDER PLATE: NICKEL (Ni).
METAL SHELL:
SOLDER TAIL: TIN(Sn),THICKNESS=100 MICROINCH MINIMUM
UNDER PLATE: NICKEL (Ni),(SOLDERING AVAILABLE)
SURFACE APPEARANCE: BRIGHT.

3.RECOMMENDED PCB THICKNESS: 1.60±0.05
4.PRODUCT SPECIFICATION REFER TO PS-48025-005
5.TEST SUMMARY REFER TO TS-48025-007
6.PACKAGING SPECIFICATION REFER TO PK-48025-001
7.LEAD FREE AND RoHS COMPLIANT PRODUCT.

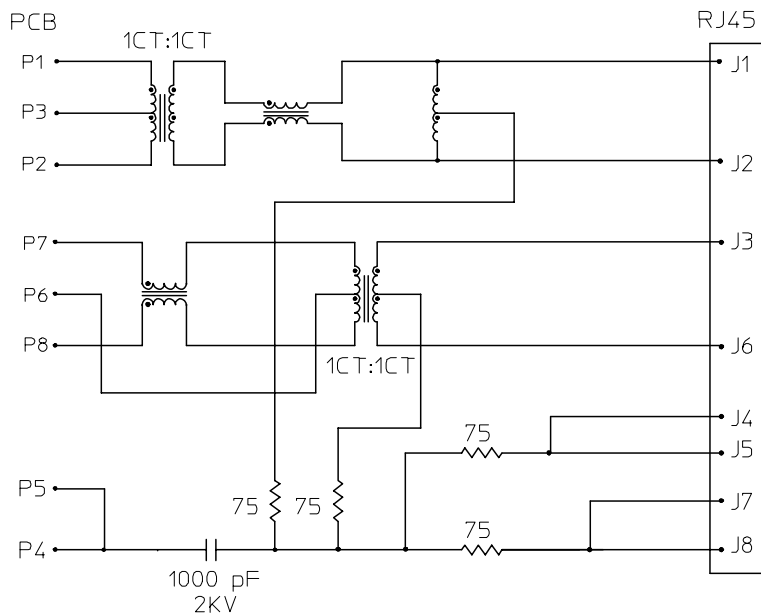
RoHS FOR 48025-0001	2006/10/04
EC NO: SH2007-0129	2006/10/04
DRW:ALLIN	2006/10/04
CHKD:	2006/10/04
APPR:WWSCHANG	2006/10/04
REV	

QUALITY SYMBOLS
▽=0
▽C=0

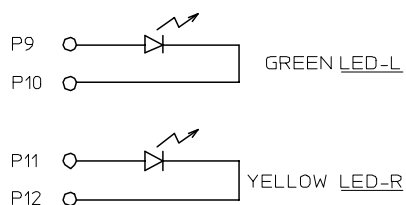
GENERAL TOLERANCES (UNLESS SPECIFIED)	
4 PLACES	± ---
3 PLACES	± ---
2 PLACES	± 0.25
1 PLACE	± 0.25
ANGULAR ± 3 °	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE MM ONLY	
DRAWN BY	DATE
LINDA	2006/08/08
CHECKED BY	DATE
ALLEN LIN	2006/08/10
APPROVED BY	DATE
ERICK LAN	2006/08/10
MATERIAL NO.	
48025-0091	
SIZE	
A3	

SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		MODULAR JACK WITH INTEGRATED MAGNETICS WITH LED	
		MOLEX INCORPORATED	
		DOCUMENT NO.	SHEET NO.
		SD-48025-007	1 OF 2
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			



MAGNETIC SCHEMATIC



LED SCHEMATIC

MAGNETIC ELECTRICAL SPECIFICATION

PARAMETER	SPECIFICATIONS		
INSERTION LOSS	100 KHz	1-125 MHz	
	1.2 dB MAX	0.2+0.002*f~1.4 dB MAX	
RETURE LOSS (Z OUT=100 OHM±15%)	.1-30 MHz	30-60 MHz	60-80 MHz
	16 dB MIN	10-20*LOG ₁₀ (f/60 MHz) dB MIN.	10 dB MIN.
INDUCTANCE (OCL) (MEDIA SIDE, 0° +70° C)	350 uH MIN	MEASURED AT 100 KHz, 100 mVRMS) AND WITH 8 mA DC BIAS	
CROSSTALK, ADJACENT CHANNELS	1 MHz	10-100 MHz	
	50 dB MIN	50-17*LOG ₁₀ (f/10) dB MIN.	
COMMON MODE REJECTION RATIO	2 MHz	30-200 MHz	
	50 dB MIN	15-20*LOG ₁₀ (f/200) dB MIN.	
DC RESISTANCE 1/2 WINDING	0.60 OHMS MAX.		
DC RESISTANCE IMBALANCE	±0.065 OHMS MAX (CENTER TAP SYMMETRY)		
HI-POT ISOLATION	1500 VRMS AC		

NOTE: f IS FREQUENCY IN MHz.

LED ELECTRICAL SPECIFICATION

PARAMETER	YELLOW (TYP.)		GREEN (TYP.)		UNITS	TEST CONDITIONS
POWER DISSIPATION	105		105		mW	
REVERSE VOLTAGE	5		5		V	
PEAK WAVELENGTH	590		565		nm	I _F =20mA
FORWARD VOLTAGE	2.1	MAX.=2.5	2.2	MAX.=2.5	V	I _F =20mA

SEE SHEET 1 EC NO: SH2007-0129 DRWN:ALLIN CHKD: APPR:WWSCHANG	2006/10/04 2006/10/04 2006/10/04	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	MODULAR JACK WITH INTEGRATED MAGNETICS WITH LED				
					mm	INCH	DRAWN BY LINDA	DATE 2006/08/08	MOLEX INCORPORATED						
				4 PLACES	± ---	± ---	CHECKED BY	DATE							
				3 PLACES	± ---	± ---	ALLEN LIN	2006/08/10							
				2 PLACES	± 0.25	± ---	APPROVED BY	DATE							
				1 PLACE	± 0.25	± ---	ERICK LAN	2006/08/10	DOCUMENT NO. SD-48025-007			SHEET NO. 2 OF 2			
				ANGULAR ± 3 °			MATERIAL NO. 48025-0091								
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS											
							SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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