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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](#) [Product Specification PS-48025-005 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
UL E107635

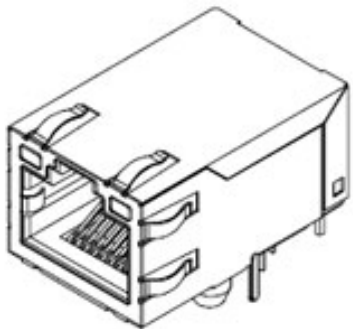
General

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

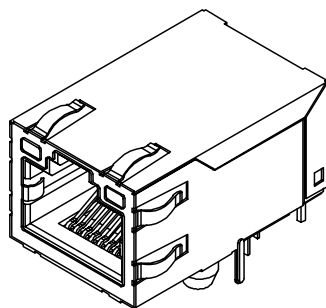
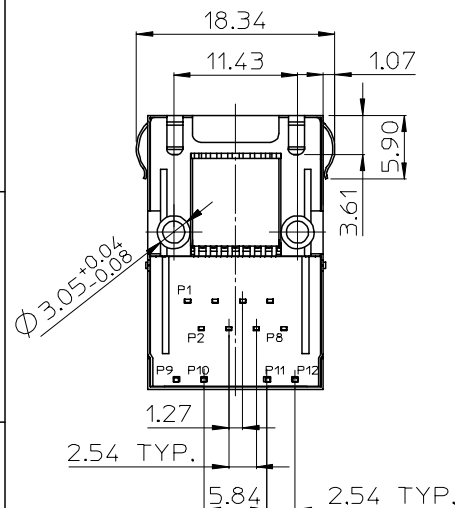
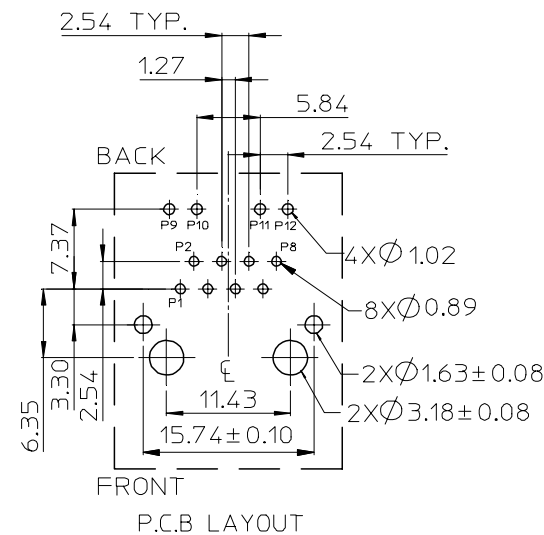
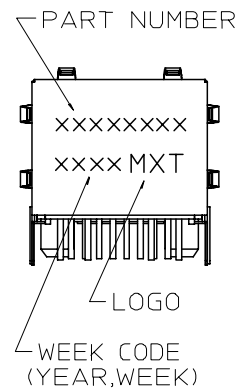
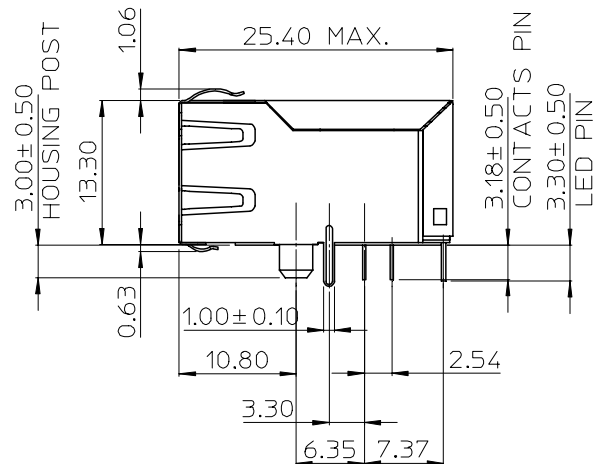
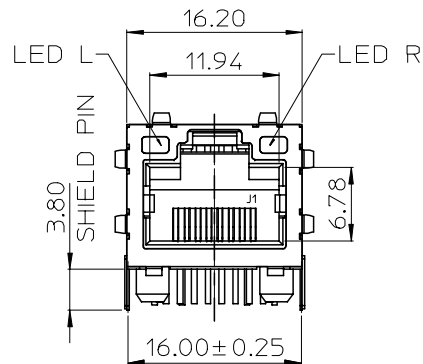
Current - Maximum per Contact	1.5A
Grounding to PCB	Yes
Grounding to Panel	Panel Ground Tab
Shielded	Yes
Voltage - Maximum	150V AC (RMS)

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
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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.

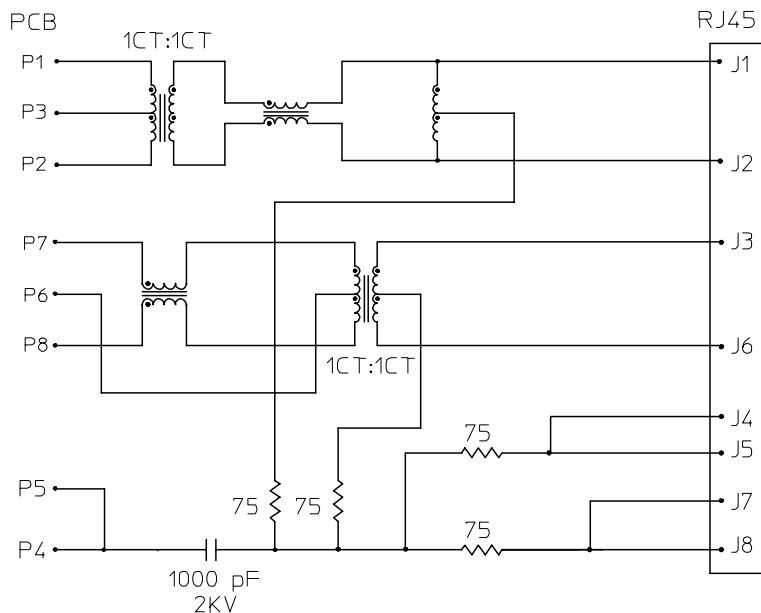
RoHS FOR 48025-0001	2006/10/04
EC NO: SH2007-0129	2006/10/04
DRWN:ALLIN	2006/10/04
CHKD:	2006/10/04
APPR:WWSCHANG	2006/10/04
REV	

QUALITY SYMBOLS
▽=0
▽=0

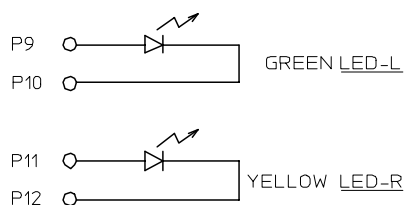
GENERAL TOLERANCES (UNLESS SPECIFIED)	
4 PLACES	± ---
3 PLACES	± ---
2 PLACES	± 0.25
1 PLACE	± 0.25
ANGULAR ± 3 °	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

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	



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 ▽C=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 MOLEX INCORPORATED		
								DRAWN BY DATE LINDA 2006/08/08				TITLE	
								CHECKED BY DATE ALLEN LIN 2006/08/10					
								APPROVED BY DATE ERICK LAN 2006/08/10					
								MATERIAL NO. 48025-0091				DOCUMENT NO. SD-48025-007	
								SIZE A3				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
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Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru

www.lifeelectronics.ru