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Part Number:

0480252090

Status:

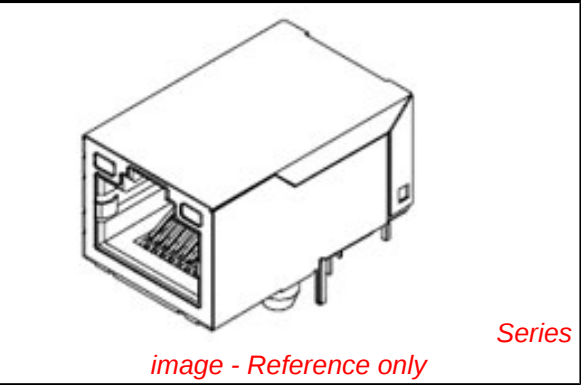
Active

Overview:

magnetic_modular_jacks

Description:

Modular Jack, Right Angle, 10/100, with Integrated Magnetic and LED, 8/8, without Ground Shield, 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 Without Ground Shield
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	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

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

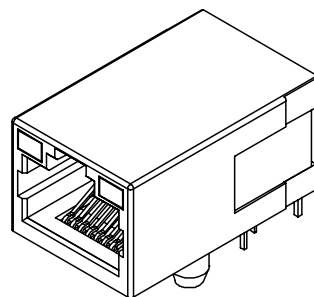
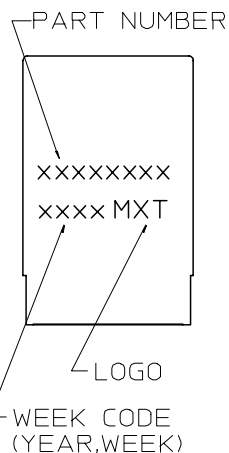
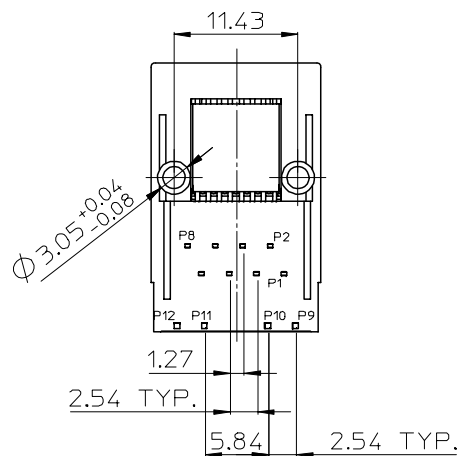
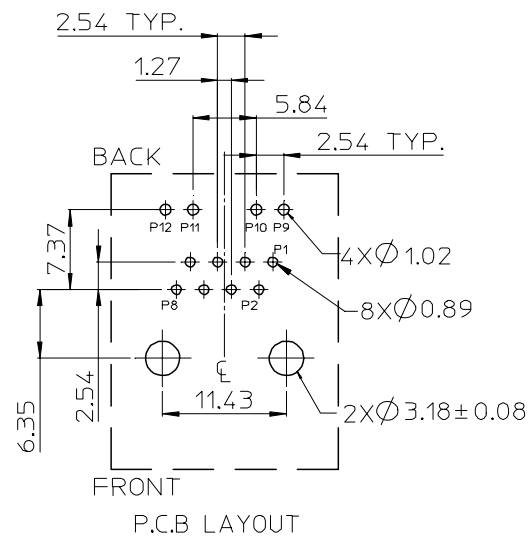
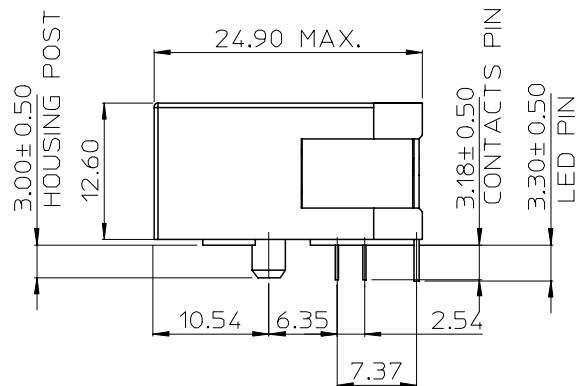
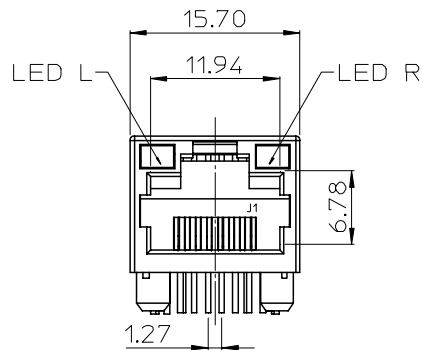
Current - Maximum per Contact	1.5A
Grounding to PCB	Yes
Grounding to Panel	No Panel Ground Tabs
Shielded	Yes
Voltage - Maximum	150V AC (RMS)

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-48025-001
Product Specification	PS-48025-005
Sales Drawing	SD-48025-010
Test Summary	TS-48025-010

This document was generated on 05/26/2010
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NOTES:

1.MATERIAL:

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).

3.RECOMMENDED PCB THICKNESS: 1.60±0.05

4.PRODUCT SPECIFICATION REFER TO PS-48025-005

5.TEST SUMMARY REFER TO TS-48025-010

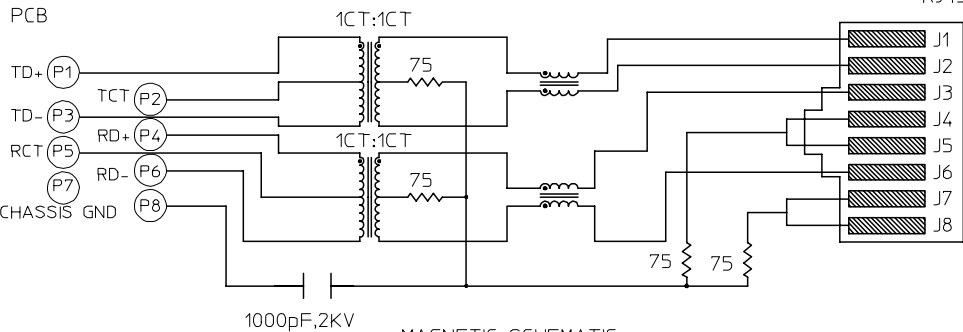
6.PACKAGING SPECIFICATION REFER TO PK-48025-001

7.LEAD FREE AND RoHS COMPLIANT PRODUCT.

ROHS FOR 48025-2000			QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
EC NO: SH2007-0129 DRWN:ALLIN CHKD: APPR:WWSCHANG	DESCRIPTION REV	mm		INCH		DRAWN BY		DATE		TITLE MODULAR JACK WITH LED, INTEGRATED MAGNETICS WITHOUT GROUND SHIELD			
		4 PLACES		± ---		± ---		LINDA			2006/08/08		
		3 PLACES		± ---		± ---		CHECKED BY			DATE		
		2 PLACES		± 0.25		± ---		ALLEN LIN			2006/08/10		
		1 PLACE		± 0.25		± ---		APPROVED BY			DATE		
		ANGULAR ± 3 °						ERICK LAN			2006/08/10		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO. 48025-2090		DOCUMENT NO. SD-48025-010		SHEET NO. 1 OF 2					
				SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

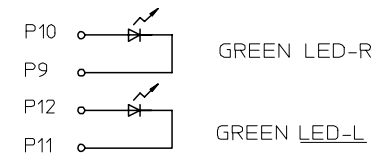
MAGNETIC ELECTRICAL SPECIFICATIONS:

- 1.0 TURNS RATIO:(P4-P5-P6):(J3-J6):1CT:1CT
(P3-P2-P1):(J1-J2):1CT:1CT
 - 2.0 INDUCTANCE:(P4-P6):350uH MIN. @0.1V,100KHz,8mA DC Bias.
(P3-P1):350uH MIN. @0.1V,100KHz,8mA DC Bias.
 - 3.0 LEAKAGE INDUCTANCE:P6-P5-P4(WITH J6 AND J3 SHORT):0.3 MAX.@1MHZ.
P3-P2-P1(WITH J2 AND J1 SHORT):0.3 MAX.@1MHZ.
 - 4.0 INTERWINDING CAPACITANCE:(P6,P5,P4) TO (J6,J3):30pf MAX @1MHZ.
(P3,P2,P1) TO (J2,J1):30pf MAX @1MHZ.
 - 5.0 DC RESISTANCE:(J6-J3)=(J2-J1):1.3 ohms Max.
 - 6.0 RETURN LOSS:(P4-P6)(P1-P3)
1MHz TO 30MHz:18dB min.
30MHz TO 80MHz:12dB min.
- NOTE:100 OHMS CONNECTED TO (J2-J1) OR (J3-J6).
- 7.0 HI-POT:(J1,J2) TO (P1,P3):1500 VAC OR 2250 VDC.
(J3,J6) TO (P4,P6):1500 VAC OR 2250 VDC.
 - 8.0 INSERTION LOSS:1.1 dB MAX.
100KHz TO 100MHz.
 - 9.0 CROSS TALK:1-100 MHz:30 dB MIN.
 - 10.0 COMMON TO COMMON MODE REJECTION:1MHz TO 100MHz:35 dB MIN.



LED ELECTRICAL SPECIFICATION

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



LED SCHEMATIC

SEE SHEET 1 EC NO: SH2007-0129 DRWN:ALLIN CHKD: APPR:WMSCHANG REV	DESCRIPTION 2006/10/04 2006/10/04 2006/10/04	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
					DRAWN BY LINDA		DATE 2006/08/08			TITLE MODULAR JACK WITH LED, INTEGRATED MAGNETICS WITHOUT GROUND SHIELD	
					CHECKED BY ALLEN LIN		DATE 2006/08/10				
					APPROVED BY ERICK LAN		DATE 2006/08/10				
					MATERIAL NO. 48025-2090		DOCUMENT NO. SD-48025-010				SHEET NO. 2 OF 2
					SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
			4 PLACES ± --- ± ---								
			3 PLACES ± --- ± ---								
			2 PLACES ± 0.25 ± ---								
			1 PLACE ± 0.25 ± ---								
ANGULAR ± 3 °											
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS											