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Part Number:

0480334900

Status:

Active

Overview:

magnetic_modular_jacks

Description:

Modular Jack, Right Angle, 10/100 Ethernet, Stacked 2x8, with LED and Magnetics, Lead Free

Documents:

3D Model

Drawing (PDF)

Product Specification PS-48033-002 (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family

Series

Comments

Component Type

Magnetic

Overview

Performance Category

Power over Ethernet (PoE)

Product Name

Modular Jacks/Plugs

48033

With LED|Tail Length: 2.50mm (.098")

PCB Jack

Yes

magnetic_modular_jacks

5

Non-PoE

Magnetic Jack

Physical

Boot Color

Color - Resin

Durability (mating cycles max)

Inverted / Top Latch

Keying to Mating Part

Lightpipes/LEDs

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Orientation

PCB Locator

PCB Retention

PCB Thickness Recommended (in)

PCB Thickness Recommended (mm)

Packaging Type

Ports

Positions / Loaded Contacts

Surface Mount Compatible (SMC)

Temperature Range - Operating

Termination Interface: Style

Waterproof / Dustproof

Wire/Cable Type

N/A

Black

750

Yes

Yes

LEDs

Brass, Phosphor Bronze

Gold

Tin

Nylon

Right Angle (Side Entry)

Yes

Yes

0.079 In

2.00 mm

Tray

16

8/8

No

-40°C to +85°C

Through Hole

No

N/A

Electrical

Current - Maximum per Contact

Grounding to PCB

Grounding to Panel

Shielded

Voltage - Maximum

1.5A

Yes

Panel Ground Tab

Yes

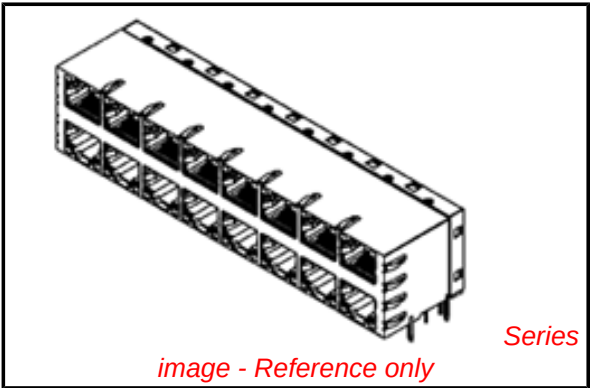
150V AC

Material Info

Reference - Drawing Numbers

Packaging Specification

PK-48033-005



EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed



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

48033Series

Mates With

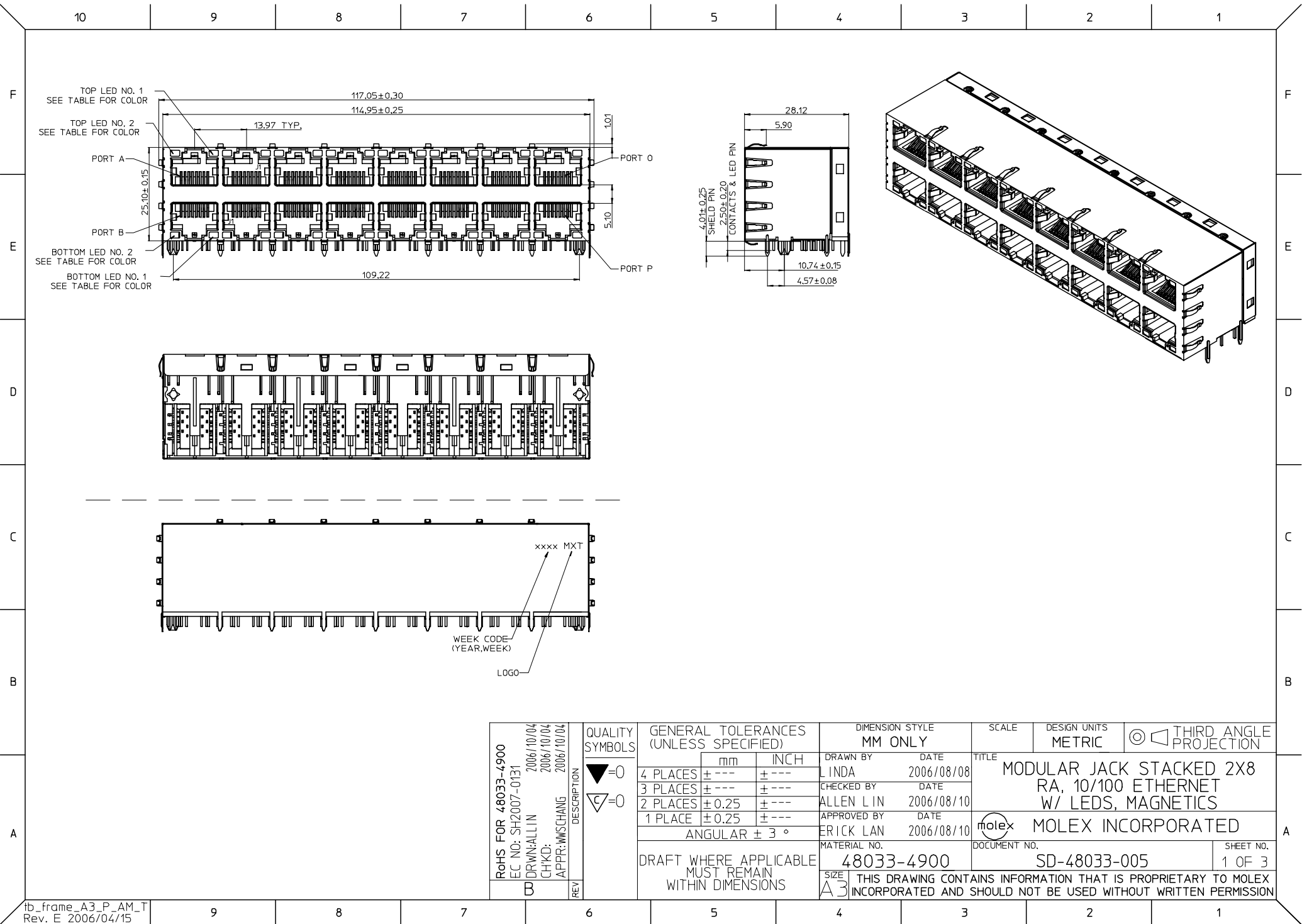
FCC 68 Plugs

Product Specification
Sales Drawing
Test Summary

PS-48033-002
SD-48033-005
TS-48033-005

This document was generated on 05/26/2010

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NOTES:

1.MATERIAL:

PLASTIC HOUSING: POLYAMIDE, GLASS FIBER FILLED,UL94V-0,COLOR:BLACK
SHIELD: BRASS.
BACK SHIELD: BRASS.
CONTACTS: PHOSPHOR BRONZE.
LED: DIFFUSED EPOXY LENS,CARBON STEEL LEAD FRAME

2.PLATING:

SHIELD:SOLDER TAIL:TN(Sn) THICKNESS-100 MICRONCH MINIMUM
UNDER PLATE:NICKEL(Ni) PLATED OVERALL (SOLDERING AVAILABLE).
TERMINAL CONTACT AREA:GOLD(Au) THICKNESS-50 MICRONCH/127 MICROMETER
SOLDER TAIL:TN(Sn) THICKNESS-100 MICRONCH MINIMUM
UNDER PLATE:NICKEL(Ni) PLATED OVERALL.
LED:TN/SILVER/NICKEL/COPPER PLATING

3.MAGNETICS:

IMPEDANCE:100 OHMS
TRANSMIT OPEN CIRCUIT INDUCTANCE (OCL):350uH (MIN)@ 100KHZ,0.1 VRMS WITH 8 mA DC BIAS
TURNS RATIO (CHIP:CABLE):TX:1,RX:1
PERFORMANCE:
TRANSMIT BIDIRECTIONAL J3 AND J6
RECEIVE BIDIRECTIONAL J1 AND J2

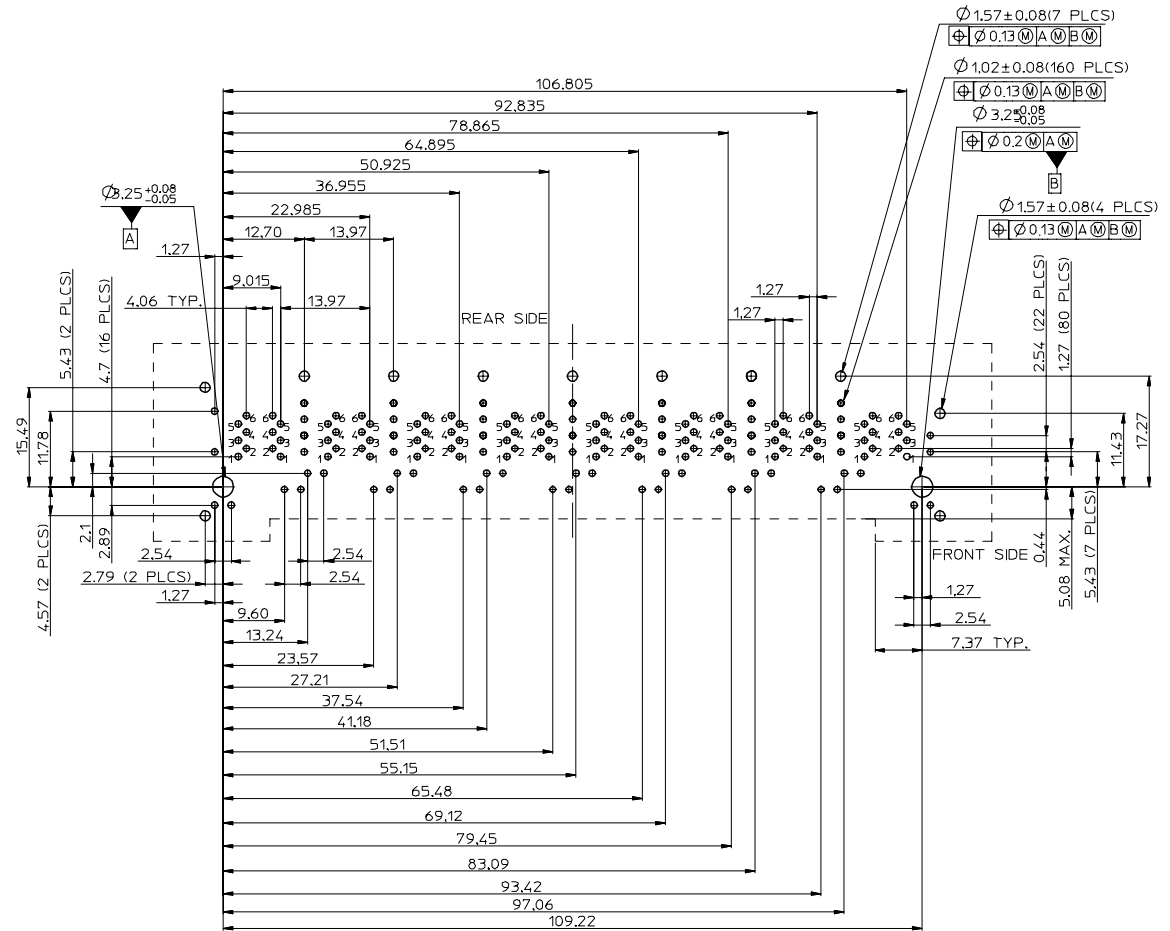
FREQUENCY	INSERTION LOSS	RETURN LOSS	CROSSTALK ATTENUATION	COMMON MODE REJECTION RATIO	
				TX	RX
1.0MHZ-15.0MHZ	0.3dB(MAX)	18.0dB(MIN)	35.0dB(MIN)	46.0dB(MIN)	35.0dB(MIN)
15.1MHZ-60.0MHZ	0.6dB(MAX)	16.0dB(MIN)	26.0dB(MIN)	46.0dB(MIN)	35.0dB(MIN)
60.1MHZ-80.0MHZ	1.1dB(MAX)	15.0dB(MIN)	24.0dB(MIN)	42.0dB(MIN)	33.0dB(MIN)
80.1MHZ-100.0MHZ	1.1dB(MAX)	12.0dB(MIN)	24.0dB(MIN)	42.0dB(MIN)	33.0dB(MIN)

DIELECTRIC (ISOLATION VOLTAGE):
2250 VDC (1mA CUTOFF CURRENT) FOR 60 SECONDS DURATION
WITH DECOUPLING CAP
ALL BRIDGED ON EITHER SIDE OF MAGNETICS PACKAGE FOR
RJ-45 CONTACT

4.RECOMMENDED PCB THICKNESS 2.00mm(.079")
5.SUGGESTED OPERATING CURRENT FOR THE LED IS 20mA
6.PRODUCT SPECIFICATION REFER TO PS-48033-002
7.TEST SUMMARY REFER TO TS-48033-005
8.PACKAGING SPECIFICATION REFER TO PK-48033-005
9.LEAD FREE AND RoHS COMPLIANT PRODUCT

LED ELECTRICAL SPECIFICATION

PARAMETER	YELLOW (TYP.)	GREEN (TYP.)	UNITS	TEST CONDITIONS
POWER DISSIPATION	100	100	mW	
REVERSE VOLTAGE	5	5	V	
PEAK WAVELENGTH	585	565	nm	IF=20mA
FORWARD VOLTAGE	2.1 MAX.=2.5	2.1 MAX.=2.5	V	IF=20mA



SEE SHEET 1 EC NO: SH2007-0131 DRWN:ALLIN CHKD: APPR:WWSCHANG 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		
				mm	INCH	DRAWN BY LINDA	DATE 2006/08/08	TITLE MODULAR JACK STACKED 2X8 RA, 10/100 ETHERNET W/ LEDS, MAGNETICS			
			4 PLACES	± ---	± ---	CHECKED BY ALLEN LIN	DATE 2006/08/10				
			3 PLACES	± ---	± ---	APPROVED BY ERICK LAN	DATE 2006/08/10				
			2 PLACES	± 0.25	± ---	MATERIAL NO. 48033-4900		DOCUMENT NO. SD-48033-005		SHEET NO. 2 OF 3	
			1 PLACE	± 0.25	± ---						
			ANGULAR ± 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				

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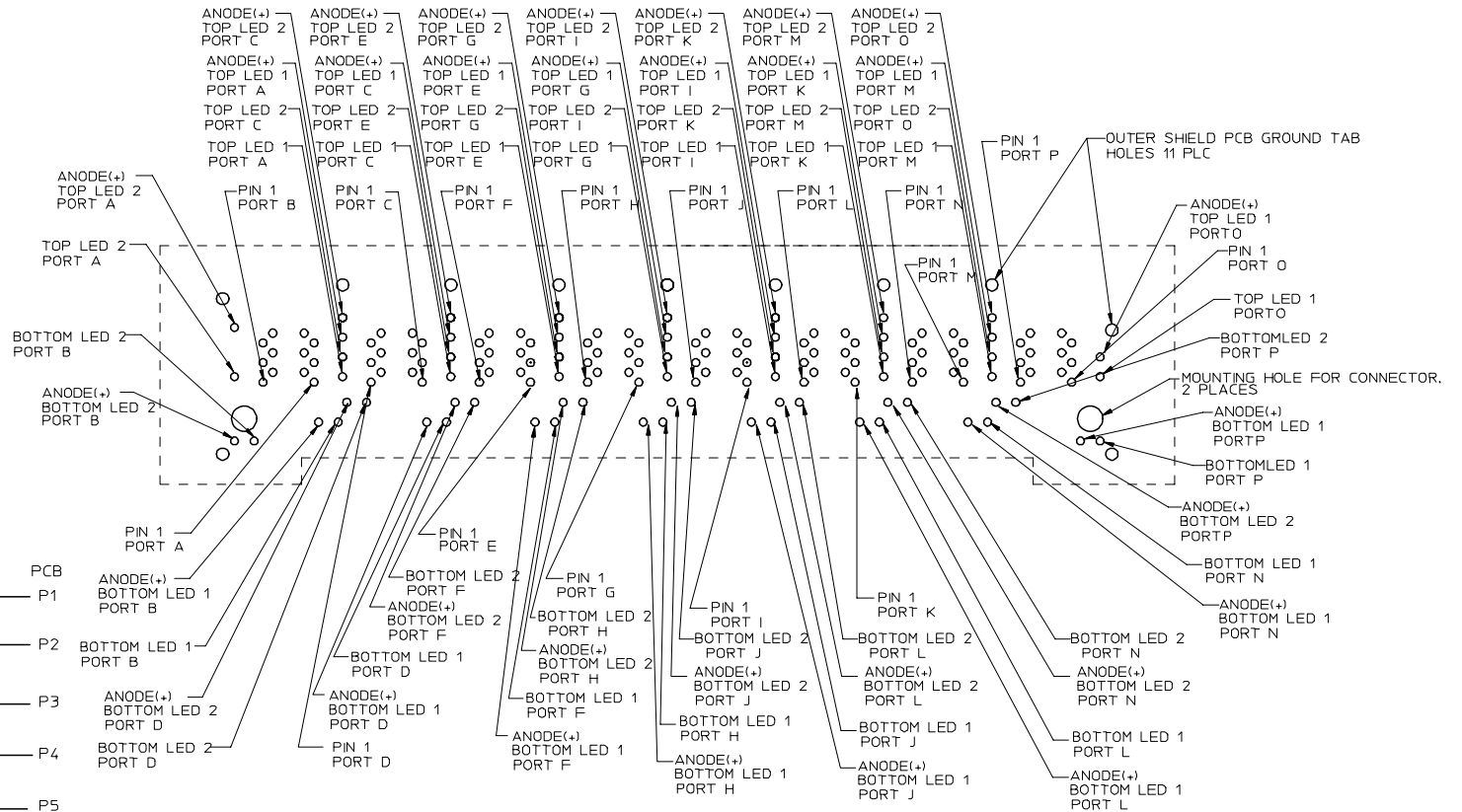
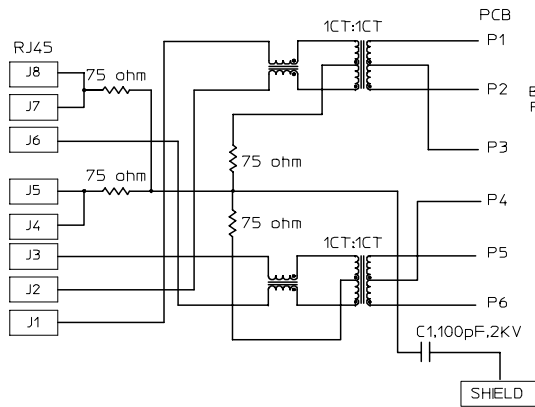
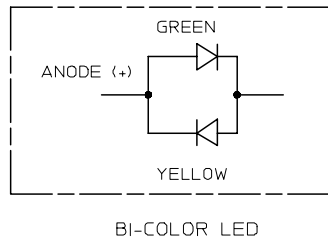
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LED HOLE DESIGNATIONS
(VIEWED FROM COMPONENT SIDE)

MAGNETIC SCHEMATIC

SEE SHEET 1 EC NO: SH2007-0131 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 			
								DRAWN BY LINDA		DATE 2006/08/08		TITLE MODULAR JACK STACKED 2X8 RA, 10/100 ETHERNET W/ LEDS, MAGNETICS	
								CHECKED BY ALLEN LIN		DATE 2006/08/10			
								APPROVED BY ERICK LAN		DATE 2006/08/10			
								MATERIAL NO. 48033-4900		DOCUMENT NO. SD-48033-005		SHEET NO. 3 OF 3	
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					