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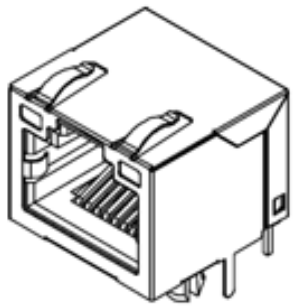
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PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0481460001
Status: Active
Overview: modular_plugs_jacks
Description: Modular Jack, Right Angle, Low Profile, Inverted, Shielded, with LEDs, 8/8, LED Color: Left and Right (Green), Lead Free

Documents:

3D Model
Drawing (PDF)
Product Specification PS-48146-001 (PDF)
RoHS Certificate of Compliance (PDF)



Series image - Reference only

General

Product Family	Modular Jacks/Plugs
Series	48146
Comments	With LED
Component Type	PCB Jack
Magnetic	No
Overview	modular_plugs_jacks
Performance Category	5
Power over Ethernet (PoE)	N/A
Product Name	RJ45

Physical

Boot Color	N/A
Color - Resin	Black
Durability (mating cycles max)	750
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	High Temperature Thermoplastic
Orientation	Right Angle (Side Entry)
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tray
Panel Mount	Without Flange
Pitch - Mating Interface (in)	0.080 In
Pitch - Mating Interface (mm)	2.03 mm
Pitch - Term. Interface (in)	0.080 In
Pitch - Term. Interface (mm)	2.03 mm
Plating min: Mating (µin)	50
Plating min: Mating (µm)	1.27
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.54
Ports	1
Positions / Loaded Contacts	8/8
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +85°C
Termination Interface: Style	Through Hole
Wire/Cable Type	N/A

Electrical

Current - Maximum per Contact	1.5A

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
48146Series

Mates With
FCC 68 Plugs

Grounding to PCB	No
Grounding to Panel	Panel Ground Tab
Shielded	Yes
Voltage - Maximum	150V AC

Material Info

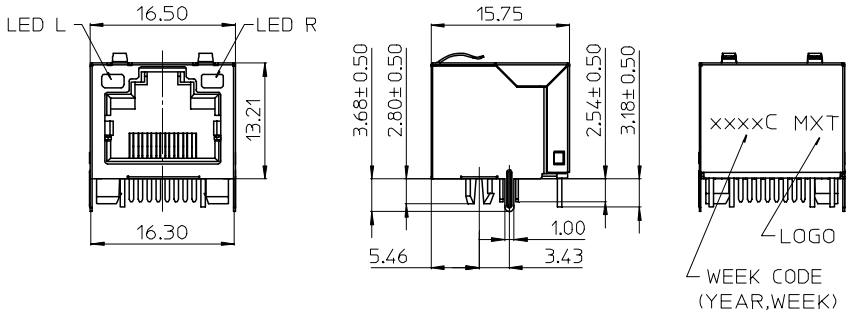
Reference - Drawing Numbers

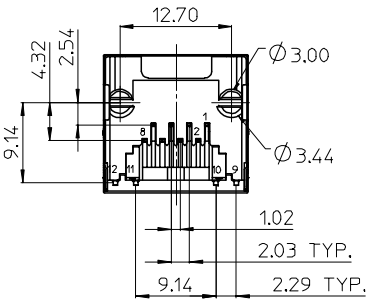
Packaging Specification	PK-48146-001
Product Specification	PS-48146-001
Sales Drawing	SD-48146-001
Test Summary	TS-48146-001

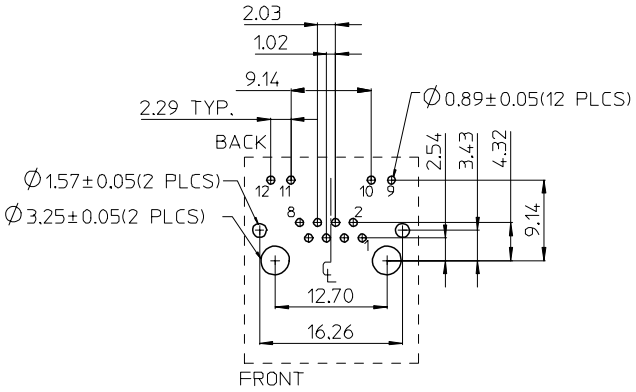
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NOTES:
1.MATERIAL:
METAL SHELL: BRASS
HOUSING: HIGH TEMP THERMOPLASTIC,UL94V-0,COLOR:BLACK
INSERT: HIGH TEMP THERMOPLASTIC,UL94V-0,COLOR:BLACK
TERMINAL: PHOSPHOR BRONZE
2.PLATING:
TERMINAL:
CONTACT AREA: GOLD(Au),THICKNESS=50 MICROINCH/1.27 MICROMETER
SOLDER TAIL: TIN(Sn),THICKNESS=100 MICROINCH MINIMUN.
UNDER PLATE: NICKEL (Ni).
METAL SHELL:
SOLDER TAIL: TIN(Sn),THICKNESS=100 MICROINCH MINIMUN.
UNDER PLATE: NICKEL (Ni),(SOLDERING AVAILABLE)
SURFACE APPEARANCE: BRIGHT.
3.RECOMMENDED PCB THICKNESS: 1.60±0.05
4.PRODUCT SPECIFICATION REFER TO PS-48146-001
5.TEST SUMMARY REFER TO TS-48146-001
6.PACKAGING SPECIFICATION REFER TO PK-48146-001.
7.LEAD FREE AND ROHS COMPLIANT PRODUCT.



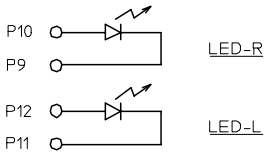




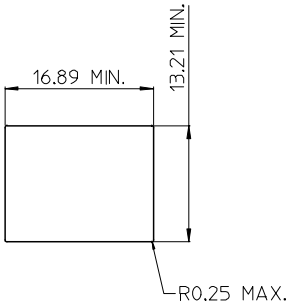
P.C.B LAYOUT

LED ELECTRICAL SPECIFICATION

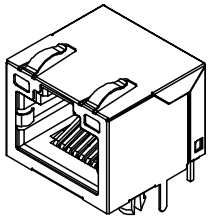
PARAMETER	GREEN (TYP.)	AMBER (TYP.)	UNITS	TEST CONDITIONS
POWER DISSIPATION	105	100	mW	
REVERSE VOLTAGE	5	5	V	
PEAK WAVELENGTH	565	600	nm	IF=20mA
FORWARD VOLTAGE	2.2 MAX.=2.5	2.1 MAX.=2.5	V	IF=20mA



LED SCHEMATIC



RECOMMENDED PANEL CUTOUT



P/N	LED COLOR	
	LEFT	RIGHT
48146-0001	GREEN	GREEN
48146-0011	GREEN	AMBER
48146-0010	AMBER	GREEN

ADD NEW P/N 2006/09/12
EC NO: SH2007-0138 2006/09/13
DRWN:ALLIN
CHKD:
APPR:WWSCHANG
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
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
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: LINDA DATE: 2004/07/27
CHECKED BY: ALLIN DATE: 2004/07/27
APPROVED BY: WWSCHANG DATE: 2004/07/27

TITLE: CATEGORY 5 MODULAR JACK 8 POSITION, 8 CONTACTS

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-48146-001
SHEET NO.: 1 OF 1
SIZE: A3

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