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Part Number:

0476420001

Status:

Active

Overview:

micro\_usb

Description:

0.65mm (.026") Pitch Micro-USB B Receptacle, Mid-Mount, SMT, with Through Hole Solder Tab, Gold (Au) Flash Plating, without Mylar, Lead Free

Documents:

3D Model

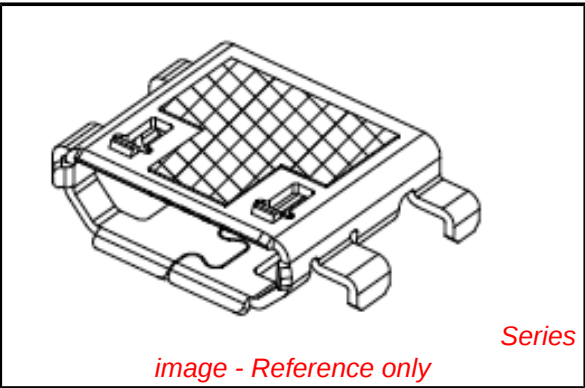
Drawing (PDF)

Product Specification PS-47642-001 (PDF)

RoHS Certificate of Compliance (PDF)

| General                        |                                |
|--------------------------------|--------------------------------|
| Product Family                 | I/O Connectors                 |
| Series                         | 47642                          |
| Application                    | Wire-to-Board                  |
| Comments                       | Mid Mount Type                 |
| Component Type                 | Receptacle                     |
| Overview                       | micro_usb                      |
| Product Name                   | Micro-USB                      |
| Type                           | B                              |
| Physical                       |                                |
| Boot Color                     | N/A                            |
| Circuits (Loaded)              | 5                              |
| Circuits (maximum)             | 5                              |
| Color - Resin                  | Black                          |
| Gender                         | Male                           |
| Keying to Mating Part          | Yes                            |
| Lock to Mating Part            | Yes                            |
| Material - Metal               | Copper Alloy                   |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Gold                           |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Rows                 | 1                              |
| Orientation                    | Right Angle                    |
| PCB Locator                    | No                             |
| PCB Retention                  | Yes                            |
| Packaging Type                 | Embossed Tape on Reel          |
| Panel Mount                    | No                             |
| Pitch - Mating Interface (in)  | 0.026 In                       |
| Pitch - Mating Interface (mm)  | 0.65 mm                        |
| Pitch - Term. Interface (in)   | 0.026 In                       |
| Pitch - Term. Interface (mm)   | 0.65 mm                        |
| Plating min: Mating (µin)      | 2                              |
| Plating min: Mating (µm)       | 0.05                           |
| Plating min: Termination (µin) | 2                              |
| Plating min: Termination (µm)  | 0.05                           |
| Polarized to Mating Part       | Yes                            |
| Polarized to PCB               | Yes                            |
| Ports                          | 1                              |
| Surface Mount Compatible (SMC) | Yes                            |
| Temperature Range - Operating  | -20°C to +85°C                 |
| Termination Interface: Style   | Surface Mount                  |
| Waterproof / Dustproof         | No                             |
| Wire Size AWG                  | N/A                            |

Electrical



EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

China RoHS



Need more information on product environmental compliance?

Email [productcompliance@molex.com](mailto: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

47642Series

Mates With

68784 Micro-USB Cable Plugs

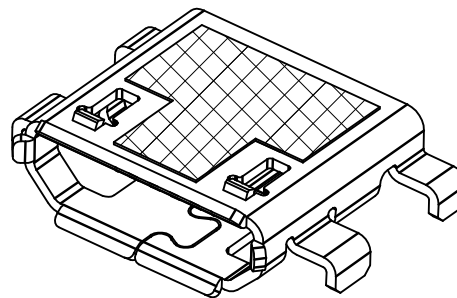
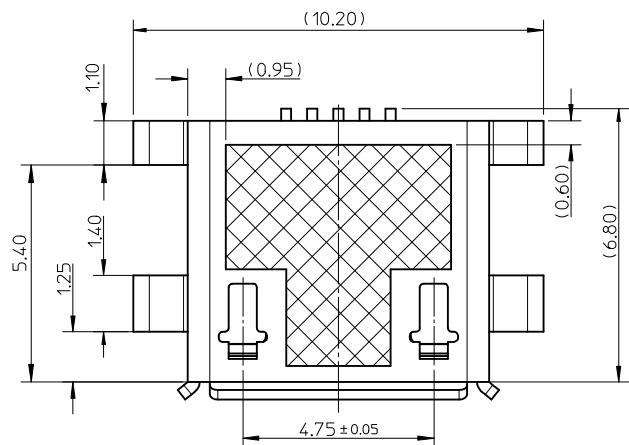
|                                                |                           |
|------------------------------------------------|---------------------------|
| Current - Maximum per Contact                  | 1.8A, 1A                  |
| Grounding to Panel                             | Yes                       |
| Shield Type                                    | Full Shield               |
| Shielded                                       | Yes                       |
| Voltage - Maximum                              | 100V AC (RMS)             |
| <b>Solder Process Data</b>                     |                           |
| Duration at Max. Process Temperature (seconds) | 2                         |
| Lead-free Process Capability                   | Reflow Capable (SMT only) |
| Max. Cycles at Max. Process Temperature        | 1                         |
| Process Temperature max. C                     | 255                       |
| <b>Material Info</b>                           |                           |
| <b>Reference - Drawing Numbers</b>             |                           |
| Packaging Specification                        | PK-47642-001              |
| Product Specification                          | PS-47642-001              |
| Sales Drawing                                  | SD-47642-001              |

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10 9 8 7 6 5 4 3 2 1

F

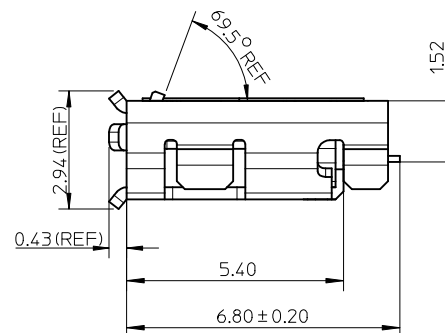
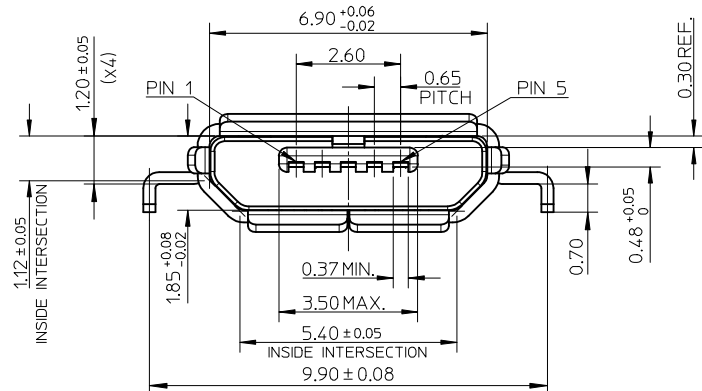


NOTE :

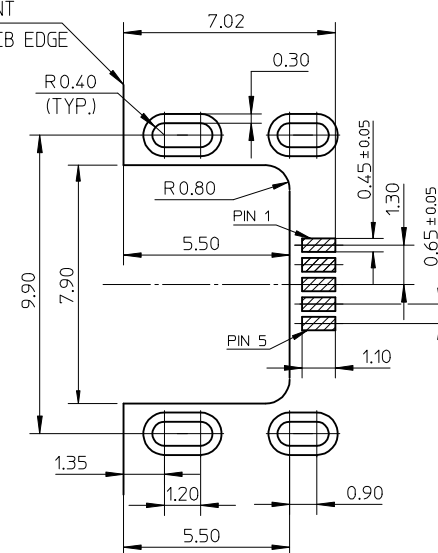
- MATERIAL :  
HOUSING : LCP,BLACK,UL94V-0  
TERMINAL : COPPER ALLOY THICKNESS = 0.15 MM  
SHIELD CASE : STAINLESS STEEL THICKNESS = 0.30 MM
- PLATING :  
TERMINAL:  
CONTACT AREA : GOLD FLASH OVER 0.75 MICRON MINIMUM Pb/Ni.  
SOLDER TAIL AREA : GOLD FLASH.  
UNDER PLATING : NICKEL 2.0 MICRON MINIMUM.
- SHIELD :  
MATTE TIN 2.0 MICRON MINIMUM.  
UNDER PLATING : NICKEL 1.27 MICRON MINIMUM.
- TAIL & NAIL COPLANARITY 0.08 mm MAXIMUM.
- PRODUCT SPEC.: PS-47642-001, PACKAGE SPEC.: PK-47642-001
- PRODUCT COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV DIRECTIVE 2000/53/EC

E

D



CONNECTOR FRONT  
INTERFACE & PCB EDGE



RECOMMENDED P.C.B. PATTERN LAYOUT

C

B

A

F

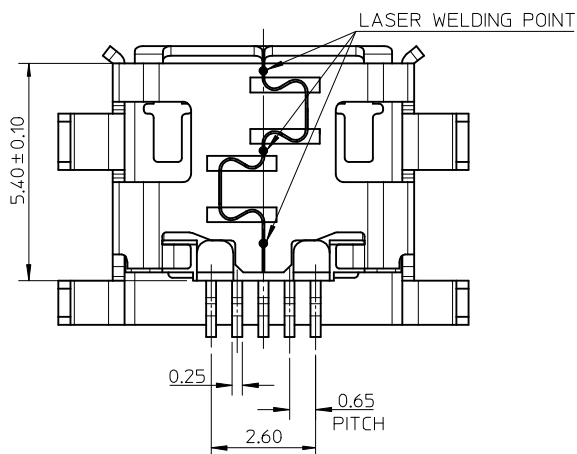
E

D

C

B

A



|             |          |
|-------------|----------|
| PART NUMBER | MYLAR    |
| 47642-0001  | WHITHOUT |
| 47642-0011  | WITH     |

|                                                                                   |                                        |                    |                                                            |                                       |           |                            |                                                                                                                                  |                    |                                                           |                           |  |  |  |
|-----------------------------------------------------------------------------------|----------------------------------------|--------------------|------------------------------------------------------------|---------------------------------------|-----------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------|---------------------------|--|--|--|
| NEW RELEASE<br>EC NO: SH2009-0195<br>DRAWN: SONG09<br>CHKD: XJSONG<br>APPR: HWANG | 2008/10/07<br>2008/10/08<br>2008/10/30 | DESCRIPTION<br>REV | QUALITY SYMBOLS<br><br>▽=0<br>▽=0                          | GENERAL TOLERANCES (UNLESS SPECIFIED) |           | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE<br>8:1       | DESIGN UNITS<br>METRIC                                    | THIRD ANGLE<br>PROJECTION |  |  |  |
|                                                                                   |                                        |                    |                                                            |                                       | mm        | INCH                       | DRAWN BY<br>XJSONG                                                                                                               | DATE<br>2008/01/04 | TITLE<br>MICRO USB B REC. MID<br>MOUNT THROUGH HOLE ASS'Y |                           |  |  |  |
|                                                                                   |                                        |                    |                                                            | 4 PLACES                              | ± ---     | ± ---                      | CHECKED BY<br>JTIAN                                                                                                              | DATE<br>2008/01/04 |                                                           |                           |  |  |  |
|                                                                                   |                                        |                    |                                                            | 3 PLACES                              | ± ---     | ± ---                      | APPROVED BY<br>HWANG                                                                                                             | DATE<br>2008/01/04 | molex MOLEX INCORPORATED                                  |                           |  |  |  |
|                                                                                   |                                        |                    |                                                            | 2 PLACES                              | ± 0.25    | ± ---                      | MATERIAL NO.                                                                                                                     | DOCUMENT NO.       |                                                           |                           |  |  |  |
| 1 PLACE                                                                           | ± 0.25                                 | ± ---              | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                       | SEE CHART |                            | SD-47642-001                                                                                                                     |                    |                                                           |                           |  |  |  |
|                                                                                   |                                        |                    |                                                            |                                       |           | SIZE<br>A3                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                           |                           |  |  |  |

9 8 7 6 5 4 3 2 1



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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.