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**Part Number:** [0447692203](#)  
**Status:** **Active**  
**Overview:** [microfit\\_30](#)  
**Description:** 3.00mm (.118") Pitch Micro-Fit 3.0, BMI™ Receptacle Header, Dual Row, Vertical, with Press-fit Plastic Pegs, 0.8µm (30µ") Gold (Au) Selective, 22 Circuits

**Documents:**  
[3D Model](#) [Product Specification PS-44300-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

|     |           |
|-----|-----------|
| CSA | LR19980   |
| TUV | R72081037 |
| UL  | E29179    |

**General**

|                             |                               |
|-----------------------------|-------------------------------|
| Product Family              | PCB Receptacles               |
| Series                      | <a href="#">44769</a>         |
| Application                 | Board-to-Board, Wire-to-Board |
| Overview                    | <a href="#">microfit_30</a>   |
| Product Literature Order No | USA-106                       |
| Product Name                | Micro-Fit 3.0 BMI™            |

**Physical**

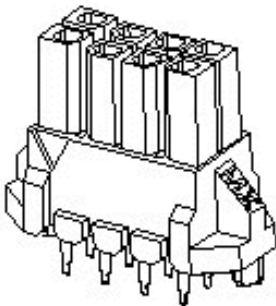
|                                |                                |
|--------------------------------|--------------------------------|
| Circuits (Loaded)              | 22                             |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 30                             |
| Flammability                   | 94V-0                          |
| Glow-Wire Compliant            | No                             |
| Material - Metal               | Phosphor Bronze                |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Rows                 | 2                              |
| Orientation                    | Vertical                       |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness Recommended (in) | 0.062 In                       |
| PCB Thickness Recommended (mm) | 1.60 mm                        |
| Packaging Type                 | Tray                           |
| Pitch - Mating Interface (in)  | 0.118 In                       |
| Pitch - Mating Interface (mm)  | 3.00 mm                        |
| Plating min: Mating (µin)      | 30                             |
| Plating min: Mating (µm)       | 0.75                           |
| Plating min: Termination (µin) | 100                            |
| Plating min: Termination (µm)  | 2.5                            |
| Polarized to PCB               | Yes                            |
| Surface Mount Compatible (SMC) | No                             |
| Temperature Range - Operating  | -40°C to +105°C                |
| Termination Interface: Style   | Through Hole                   |

**Electrical**

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 5A   |
| Voltage - Maximum             | 250V |

**Solder Process Data**

|                                                |   |
|------------------------------------------------|---|
| Duration at Max. Process Temperature (seconds) | 5 |
|------------------------------------------------|---|



Series

image - Reference only

**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**Halogen-Free**  
**Status**  
**Not Reviewed**

**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**  
[44769Series](#)

**Mates With**  
[44428](#) , [44300](#) , [44432](#)

|                                         |                        |
|-----------------------------------------|------------------------|
| Lead-free Process Capability            | Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature | 1                      |
| Process Temperature max. C              | 260                    |

**Material Info**

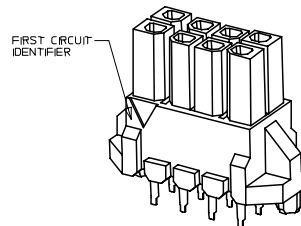
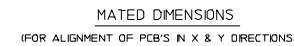
**Reference - Drawing Numbers**

|                         |                             |
|-------------------------|-----------------------------|
| Packaging Specification | PK-44769-001                |
| Product Specification   | PS-44300-001, RPS-44300-001 |
| Sales Drawing           | SD-44769-001                |

This document was generated on 05/21/2010

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|                    |                        | 44769             |
|--------------------|------------------------|-------------------|
| MATERIAL<br>NUMBER | NUMBER OF<br>POSITIONS | PLATING<br>OPTION |
| 44769-0401         | 04                     | A                 |
| 44769-0402         | 04                     | B                 |
| 44769-0403         | 04                     | C                 |
| 44769-0601         | 06                     | A                 |
| 44769-0602         | 06                     | B                 |
| 44769-0603         | 06                     | C                 |
| 44769-0801         | 08                     | A                 |
| 44769-0802         | 08                     | B                 |
| 44769-0803         | 08                     | C                 |
| 44769-1001         | 10                     | A                 |
| 44769-1002         | 10                     | B                 |
| 44769-1003         | 10                     | C                 |
| 44769-1201         | 12                     | A                 |
| 44769-1202         | 12                     | B                 |
| 44769-1203         | 12                     | C                 |
| 44769-1401         | 14                     | A                 |
| 44769-1402         | 14                     | B                 |
| 44769-1403         | 14                     | C                 |
| 44769-1601         | 16                     | A                 |
| 44769-1602         | 16                     | B                 |
| 44769-1603         | 16                     | C                 |
| 44769-1801         | 18                     | A                 |
| 44769-1802         | 18                     | B                 |
| 44769-1803         | 18                     | C                 |
| 44769-2001         | 20                     | A                 |
| 44769-2002         | 20                     | B                 |
| 44769-2003         | 20                     | C                 |
| 44769-2201         | 22                     | A                 |
| 44769-2202         | 22                     | B                 |
| 44769-2203         | 22                     | C                 |
| 44769-2401         | 24                     | A                 |
| 44769-2402         | 24                     | B                 |
| 44769-2403         | 24                     | C                 |



|                                                                                                                               |             |                 |                                       |        |                                                                                                                               |                       |                        |                                                                                                          |                    |        |
|-------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|---------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|----------------------------------------------------------------------------------------------------------|--------------------|--------|
| ADD MATING DIMENSIONS<br>EC NO: UCP2005-2881<br>DRWN: JLOWE 2005/07/07<br>CHKD: SSO/USEK 2005/07/13<br>APPR: FSMTH 2005/07/15 | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) |        | SCALE ---                                                                                                                     | DESIGN UNITS INCH     | THIRD ANGLE PROJECTION |                                                                                                          | REVISE ON CAD ONLY |        |
|                                                                                                                               |             |                 |                                       | mm     | INCH                                                                                                                          | DIMENSION STYLE IN/MM |                        | TITLE<br>MICRO-FIT (3.0) BMI<br>VERT. RECEPTACLE ASS'Y<br>4 - 24 CIRCUIT<br><br>MOLEX MOLEX INCORPORATED |                    |        |
|                                                                                                                               |             |                 | 4 PLACES                              | ± ---  | ± ---                                                                                                                         | DRAWN BY DATE         |                        |                                                                                                          |                    |        |
|                                                                                                                               |             |                 | 3 PLACES                              | ± ---  | ± .010                                                                                                                        | BURLESON 2000/07/13   |                        |                                                                                                          |                    |        |
|                                                                                                                               |             |                 | 2 PLACES                              | ± 0.25 | ± .014                                                                                                                        | CHECKED BY DATE       |                        |                                                                                                          |                    |        |
|                                                                                                                               |             |                 | 1 PLACE                               | ± 0.35 | ± ---                                                                                                                         | MUELLER 2000/07/13    |                        | MATERIAL NO. DOCUMENT NO. SHEET NO.                                                                      |                    |        |
|                                                                                                                               |             |                 | ANGULAR ±1/2°                         |        | APPROVED BY DATE                                                                                                              |                       | SEE CHART              |                                                                                                          | SD-44769-001       | 1 OF 1 |
|                                                                                                                               |             |                 | DRAFT WHERE APPLICABLE                |        | EDGELEY 2000/07/13                                                                                                            |                       |                        |                                                                                                          |                    |        |
|                                                                                                                               |             |                 | MUST REMAIN WITHIN DIMENSIONS         |        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                       |                        |                                                                                                          |                    |        |