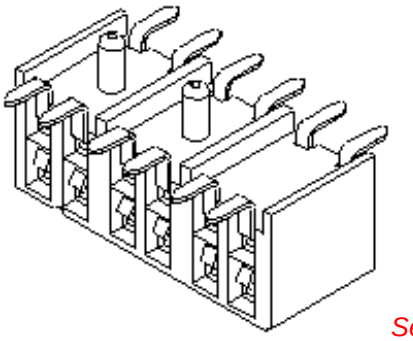
This document was generated on 05/04/2010

# PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** 0873682225

**Status:** Active

**Description:** 2.00mm (.079") Pitch Milli-Grid™ Receptacle, Surface Mount, Side Entry, 0.76µm (30µ") Gold (Au) Plating, 22 Circuits, Leadfree



*Series image - Reference only*

**Documents:**

3D Model
Drawing (PDF)
RoHS Certificate of Compliance (PDF)

## Agency Certification

| | |
|---|---|
| CSA | LR19980 |
| UL | E29179 |

## General

| | |
|---|---|
| Product Family | PCB Receptacles |
| Series | 87368 |
| Application | Board-to-Board |
| Product Literature Order No | 987650-1991 |
| Product Name | Milli-Grid™ |

## Physical

| | |
|---|---|
| Circuits (Loaded) | 22 |
| Color - Resin | Black |
| Durability (mating cycles max) | 25 |
| Flammability | 94V-0 |
| Glow-Wire Compliant | No |
| Lock to Mating Part | None |
| Material - Plating Mating | Gold |
| Material - Plating Termination | Tin |
| Material - Resin | Nylon |
| Number of Rows | 2 |
| Orientation | Right Angle |
| PCB Locator | Yes |
| PCB Retention | Yes |
| Packaging Type | Tube |
| Pitch - Mating Interface (in) | 0.079 In |
| Pitch - Mating Interface (mm) | 2.00 mm |
| Plating min: Mating (µin) | 30.4 |
| Plating min: Mating (µm) | 0.76 |
| Plating min: Termination (µin) | 101.6 |
| Plating min: Termination (µm) | 2.54 |
| Polarized to PCB | Yes |
| Surface Mount Compatible (SMC) | N/A |
| Temperature Range - Operating | -55°C to +105°C |
| Termination Interface: Style | Surface Mount |

## Electrical

| | |
|---|---|
| Current - Maximum per Contact | 1A |
| Voltage - Maximum | 125V |

## Solder Process Data

| | |
|---|---|
| Lead-free Process Capability | Reflow Capable (SMT only) |
| Process Temperature max. C | 260 |

## Material Info

## Reference - Drawing Numbers

**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.

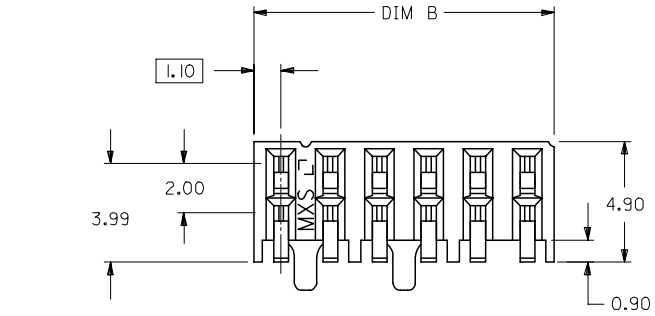
**Search Parts in this Series**
87368Series

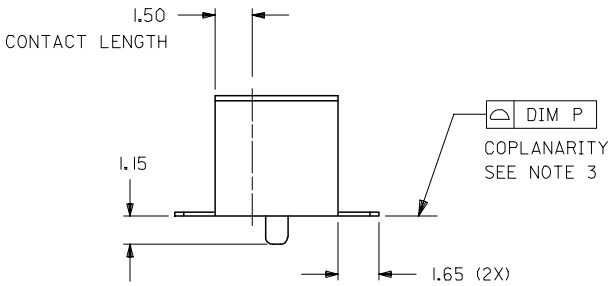
**Mates With**
87758 Vertical Through Hole PCB Headers,
87759 Vertical Surface Mount PCB Headers,
87760 Right Angle Through Hole PCB Headers

Sales Drawing SD-87368-**20

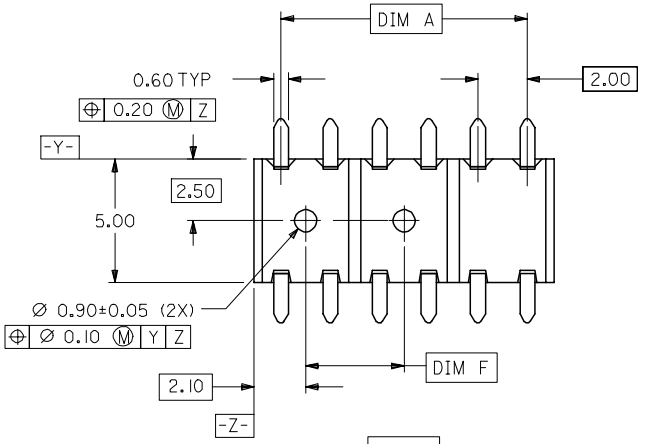
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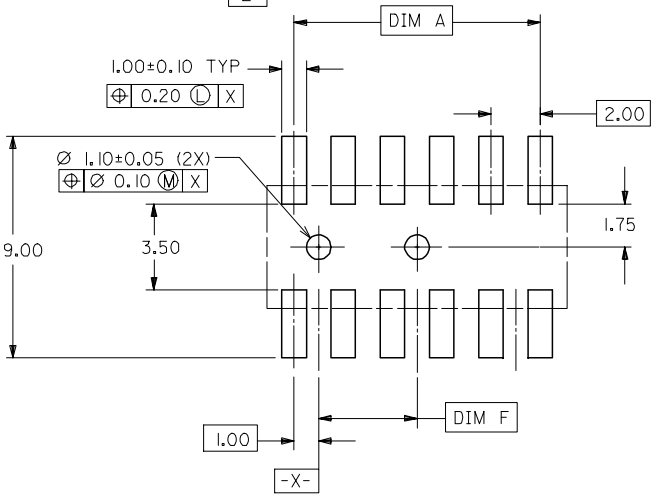
**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**




| PART NUMBER | CKT. SIZE | DIM A | DIM B | DIM F | DIM P |
|---|---|---|---|---|---|
| 87368-082* | 8 | 6.00 | 8.20 | 4.00 | 0.10 |
| 87368-102* | 10 | 8.00 | 10.20 | 4.00 | 0.10 |
| 87368-122* | 12 | 10.00 | 12.20 | 4.00 | 0.13 |
| 87368-142* | 14 | 12.00 | 14.20 | 6.00 | 0.13 |
| 87368-162* | 16 | 14.00 | 16.20 | 8.00 | 0.13 |
| 87368-182* | 18 | 16.00 | 18.20 | 10.00 | 0.13 |
| 87368-202* | 20 | 18.00 | 20.20 | 12.00 | 0.13 |
| 87368-222* | 22 | 20.00 | 22.20 | 14.00 | 0.13 |
| 87368-242* | 24 | 22.00 | 24.20 | 16.00 | 0.15 |
| 87368-262* | 26 | 24.00 | 26.20 | 18.00 | 0.15 |
| 87368-282* | 28 | 26.00 | 28.20 | 20.00 | 0.15 |
| 87368-302* | 30 | 28.00 | 30.20 | 22.00 | 0.15 |
| 87368-322* | 32 | 30.00 | 32.20 | 24.00 | 0.15 |
| 87368-342* | 34 | 32.00 | 34.20 | 26.00 | 0.15 |
| 87368-362* | 36 | 34.00 | 36.20 | 28.00 | 0.15 |
| 87368-382* | 38 | 36.00 | 38.20 | 30.00 | 0.15 |
| 87368-402* | 40 | 38.00 | 40.20 | 32.00 | 0.15 |
| 87368-422* | 42 | 40.00 | 42.20 | 34.00 | 0.15 |
| 87368-442* | 44 | 42.00 | 44.20 | 36.00 | 0.15 |
| 87368-462* | 46 | 44.00 | 46.20 | 38.00 | 0.15 |
| 87368-482* | 48 | 46.00 | 48.20 | 40.00 | 0.15 |
| 87368-502* | 50 | 48.00 | 50.20 | 42.00 | 0.15 |




RECOMMENDED P.C. BOARD LAYOUT

NOTE:

1) 12 CIRCUIT SIZE SHOWN FOR ILLUSTRATION ONLY. SEE CHART FOR AVAILABLE PART SIZES.

2) PLATING FINISH:
   4 - 0.38um/15uin MIN. GOLD IN CONTACT AREA
   2.54um/100uin MIN. TIN IN SOLDER TAIL AREA
   BOTH OVER 1.27um/50uin MIN. NICKEL OVERALL
   5 - 0.76um/30uin MIN. GOLD IN CONTACT AREA
   2.54um/100uin MIN. TIN IN SOLDER TAIL AREA
   BOTH OVER 1.27um/50uin MIN. NICKEL OVERALL

3) COPLANARITY OF SOLDER TAIL IS TO BE MEASURED BY RESTING THE PART ON A FLAT GAUGE SURFACE.

4) RECOMMENDED PC BOARD THICKNESS IS 1.60 ± 0.10mm.

5) PRODUCT SPECIFICATION PS-87264 APPLIES.

6) PART MATEABLE TO ALL MILLI-GRID HEADERS WITH MATING PIN LENGTH BETWEEN 2.50mm AND 4.20mm

7) PARTS SHALL BE PACKED IN MOISTURE BARRIER BAG.

PART NO. LEGEND

87368 - * * 2 *

CKT SIZE

PLATING

4
5 ( SEE NOTE 2 )

ADD NOTE 7.
EC NO: S2008-0335 2007/11/27
DRWN:SKANG 2007/11/30
CHKD:ATSEE 2007/12/03
APPR:MLONG
DESCRIPTION
REV
E1

QUALITY SYMBOLS
▼=0
▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.20 | ± --- |
| 1 PLACE | ± --- | ± --- |

ANGULAR ± 3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JACK DATE: 1992/06/12
CHECKED BY: TAY DATE: 1992/09/24
APPROVED BY: ROY DATE: 1992/09/25

TITLE: MGRID 2MM DUAL ROW SIDE ENTRY RECEPT., SMT

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87368-**20
SHEET NO.: 1 OF 1
SIZE: A3

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