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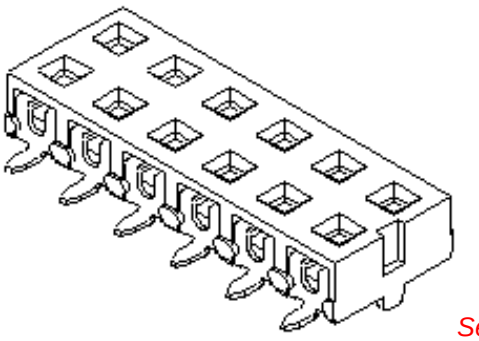
This document was generated on 05/03/2010

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

**Part Number:** 0873400685

**Status:** Active

**Description:** 2.00mm (.079") Pitch Milli-Grid™ Receptacle, Surface Mount (Very Low Profile), Top Entry, without Locating Pegs, with Pick-and-Place Cap, 0.76µm (30µ") Gold (Au) Plating, 6 Circuits, Lead-free, Tube



*Series image - Reference only*

**Documents:**

3D Model
Drawing (PDF)
Product Specification PS-87340 (PDF)
RoHS Certificate of Compliance (PDF)

## Agency Certification

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

## General

| | |
|---|---|
| Product Family | PCB Receptacles |
| Series | 87340 |
| Application | Board-to-Board |
| Comments | With Cap |
| Product Name | Milli-Grid™ |

## Physical

| | |
|---|---|
| Circuits (Loaded) | 6 |
| Color - Resin | Black |
| Durability (mating cycles max) | 25 |
| Flammability | 94V-0 |
| Glow-Wire Compliant | No |
| Lock to Mating Part | Yes |
| 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 | No |
| PCB Retention | None |
| Packaging Type | Tube |
| Pitch - Mating Interface (in) | 0.079 In |
| Pitch - Mating Interface (mm) | 2.00 mm |
| Plating min: Mating (µin) | 30 |
| Plating min: Mating (µm) | 0.76 |
| Plating min: Termination (µin) | 76 |
| Plating min: Termination (µm) | 1.9 |
| Polarized to Mating Part | No |
| Polarized to PCB | No |
| Robotic Placement | Pick and Place Cap |
| Temperature Range - Operating | -55°C to +105°C |
| Termination Interface: Style | Surface Mount |

## Electrical

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

## Material Info

## Reference - Drawing Numbers

| | |
|---|---|
| Product Specification | PS-87340 |

**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.

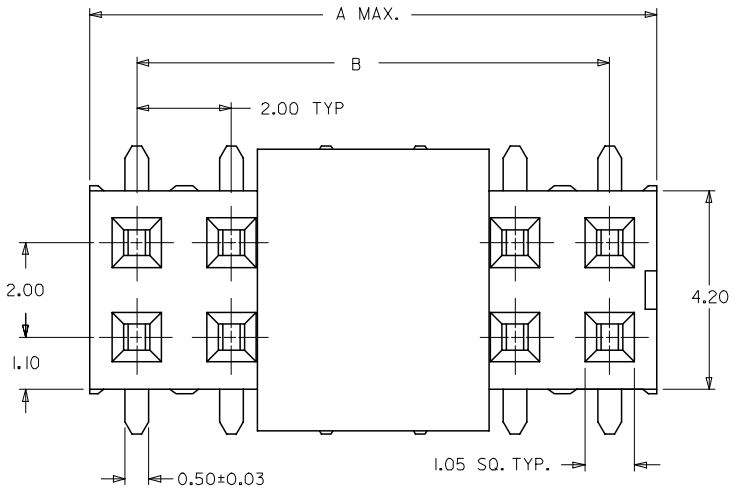
**Search Parts in this Series**
87340Series

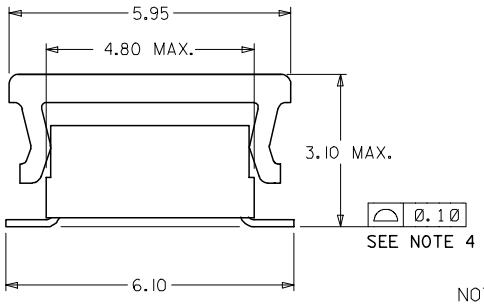
**Mates With**
87759 Vertical, Surface Mount, Stackable PCB Headers, 87760 Right Angle, Through Hole, Stackable PCB Headers, 87758 Vertical, Through Hole, Stackable PCB Headers

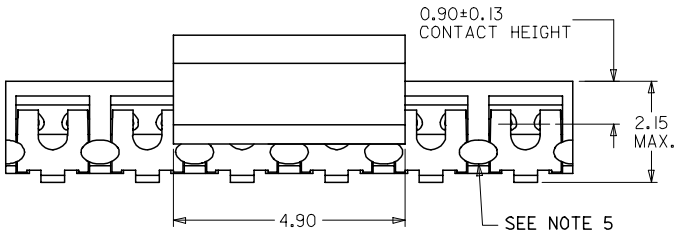
This document was generated on 05/03/2010

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

| PART NUMBER (WITH CAP IN TUBE) | PART NUMBER (WITH CAP IN TAPE & REEL) | CKT. SIZE | DIM. A | DIM. B |
|---|---|---|---|---|
| 87340-04*5 | 87340-04*6 | 04 | 4.00 | 2.00 |
| 87340-06*5 | 87340-06*6 | 06 | 6.00 | 4.00 |
| 87340-08*5 | 87340-08*6 | 08 | 8.00 | 6.00 |
| 87340-10*5 | 87340-10*6 | 10 | 10.00 | 8.00 |
| 87340-12*5 | 87340-12*6 | 12 | 12.00 | 10.00 |
| 87340-16*5 | 87340-16*6 | 16 | 16.00 | 14.00 |



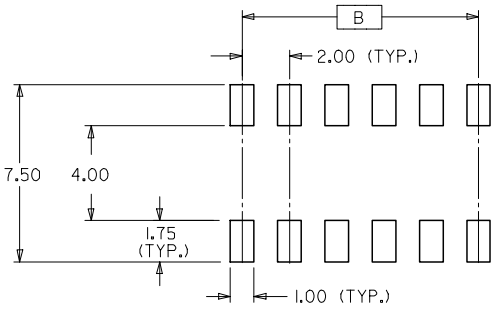

## PART NO. LEGEND

87340 - * * * *

- CKTS SIZE
- PLATING OPTIONS (SEE NOTE 3)
- PACKAGING OPTIONS
  - 5 - PACKAGED IN TUBE.
  - 6 - PACKAGED IN TAPE & REEL.

NOTES :

1. FOR ILLUSTRATION PURPOSES, DRAWING SHOWS PART 12 CIRCUIT SIZE.
2. MATERIAL :
   HOUSING :
   LCP GLASS FILLED, UL 94V-0
   SUITABLE FOR SURFACE-MOUNT SOLDERING PROCESS.
   COLOR : BLACK
   TERMINAL :
   PHOSPHOR BRONZE ALLOY
3. PLATING FINISH:
   - **7*
   0.38um MIN GOLD AT TERMINAL CONTACT AREA.
   1.90um MIN TIN IN SOLDERTALTAIL AREA BOTH OVER
   1.27um MIN NICKEL OVERALL.
   - **8*
   0.76um MIN GOLD AT TERMINAL CONTACT AREA.
   1.90um MIN TIN IN SOLDERTALTAIL AREA BOTH OVER
   1.27um MIN NICKEL OVERALL.
4. COPLANARITY OF P.C TAIL TO BE MEASURED BY RESTING THE PART ON A FLAT GAGE SURFACE.
5. THIS AREA OF PART TO BE HEAT-STAKED TO RETAIN CONTACTS.
6. POSITION OF CAP TO BE LOCATED AT CENTRE OF DIMENSION 'A' REGARDLESS OF CIRCUIT SIZE.
7. PRODUCT SPECIFICATION PS-87340 APPLIES.
8. PART TO BE PACKED IN TUBE OR TAPE & REEL. SEE SHEET 2 FOR PACKAGING DETAILS.
9. CONTACT FACTORY FOR PARTS AVAILABILITY.




RECOMMENDED SOLDER PAD DESIGN (NTS)

PDR#S-001595-00-00
EC NO: S2007-1036 2007/06/13
DRWN:SKANG 2007/06/14
CHKD:ATSEE
APPR:MLONG
DESCRIPTION
D2
REV

QUALITY SYMBOLS
▼=0
▽=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

| | | DATE |
|---|---|---|
| DRAWN BY | PTLIM | 1996/04/03 |
| CHECKED BY | SKTOH | 1996/04/08 |
| APPROVED BY | RWONG | 1996/04/19 |

TITLE: MGRID, VLPR II TOP ENTRY RECEPTACLE W/O LOC PEGS, SMT

MOLEX INCORPORATED

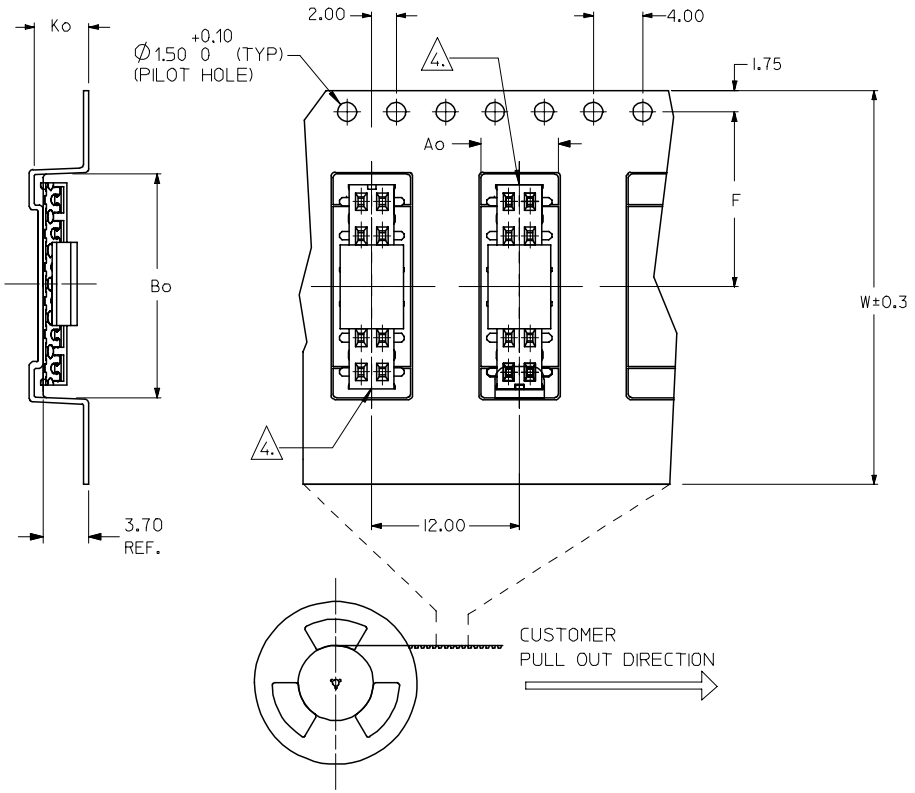
MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87340-**74
SHEET NO.: 1 OF 2

SIZE A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

EMBOSSED CARRIER TAPE WITH DIMENSIONS

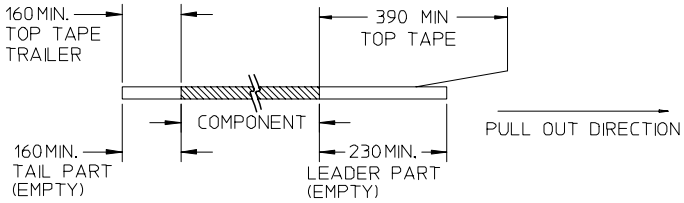
(12 CKT IS SHOWN FOR ILLUSTRATION ONLY)



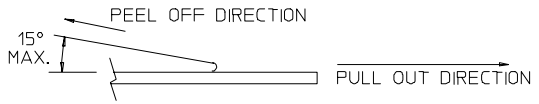

| PART NO (WITH CAP IN TAPE & REEL) | CKT SIZE | Ao | Bo | F | W | Ko |
|---|---|---|---|---|---|---|
| 87340-0476 | 04 | 6.70 | 5.30 | 11.50 | 24.00 | 5.30 |
| 87340-0676 | 06 | 6.70 | 6.40 | 11.50 | 24.00 | 5.30 |
| 87340-0686 | 06 | 6.70 | 6.40 | 11.50 | 24.00 | 5.30 |
| 87340-0876 | 08 | 6.70 | 8.50 | 11.50 | 24.00 | 5.30 |
| 87340-1076 | 10 | 6.70 | 10.40 | 11.50 | 24.00 | 5.30 |
| 87340-1276 | 12 | 6.70 | 12.40 | 11.50 | 24.00 | 5.30 |
| 87340-1686 | 16 | 6.70 | 16.30 | 11.50 | 24.00 | 5.30 |

NOTES:

1. LEADER AND TRAILER TAPE



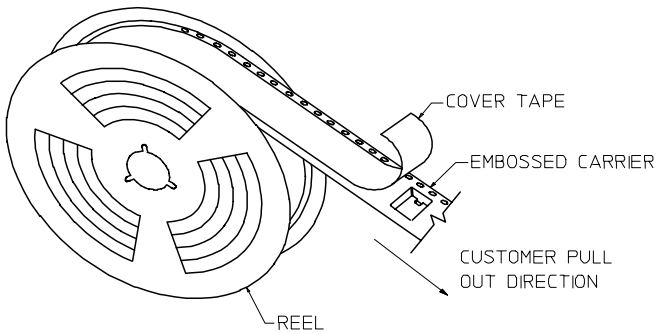

2. PEELING OFF FORCE OF THE TOP TAPE: 20-80gf.
   (PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)




3. PACKAGING STANDARD IS AS PER EIA-481.

4. TAPE & REEL QUANTITY = 1000 PCS/REEL

5. NO FIX ORIENTATION OF ASSEMBLY PART IN T&R.




TAPE AND REEL ASSEMBLY SHOWN IS FOR ILLUSTRATION ONLY

PDR#S-0011595-00-00
EC NO: S2007-1036
DRWN:SKANG 2007/06/13
CHKD:ATSEE 2007/06/14
APPR:MLONG 2007/06/14
DESCRIPTION
REV
D2

QUALITY SYMBOLS
▼=0
▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

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| 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

| | | DATE |
|---|---|---|
| DRAWN BY | PTLIM | 1996/04/03 |
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| APPROVED BY | RWONG | 1996/04/19 |

TITLE: MGRID, VLPR II TOP ENTRY RECEPTACLE W/O LOC PEGS, SMT

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87340-**74
SHEET NO.: 2 OF 2
SIZE: A3

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