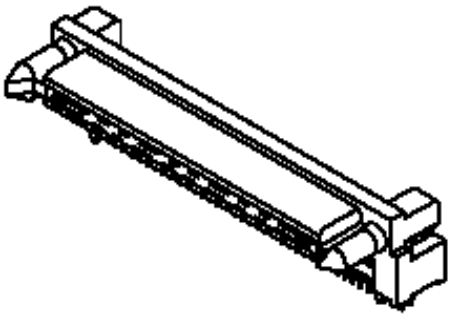
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# PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** 0875378811

**Status:** Active

**Description:** 1.27mm (.050") Pitch EBBI™ 50D Receptacle, Through Hole, Right Angle, Blind Mate, with Beveled Metal Pin and Plastic Peg, 0.76µm (30µ") Gold (Au) Selective Plating, 68 Circuits, 2.00mm (.079") PC Tail Length, Leadfree



*Series image - Reference only*

**Documents:**

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

## General

| | |
|---|---|
| Product Family | PCB Receptacles |
| Series | 87537 |
| Application | Board-to-Board |
| Comments | <LI>No Lubricant at the Contact\|<LI>Z-Height: 8.20mm (.323) |
| Product Name | EBBI™ |

## Physical

| | |
|---|---|
| Circuits (Loaded) | 68 |
| Color - Resin | Black |
| Durability (mating cycles max) | 2,000 |
| Glow-Wire Compliant | No |
| Guide to Mating Part | Yes |
| Lock to Mating Part | None |
| Material - Metal | Phosphor Bronze |
| Material - Plating Mating | Gold |
| Material - Plating Termination | Tin |
| Material - Resin | High Temperature Thermoplastic |
| Number of Rows | 2 |
| Orientation | Right Angle |
| PC Tail Length (in) | 0.079 In |
| PC Tail Length (mm) | 2.00 mm |
| 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) | 0.050 In |
| Pitch - Mating Interface (mm) | 1.27 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 Mating Part | Yes |
| Polarized to PCB | Yes |
| Surface Mount Compatible (SMC) | Yes |
| Temperature Range - Operating | -40°C to +105°C |
| Termination Interface: Style | Through Hole |

## Electrical

| | |
|---|---|
| Current - Maximum per Contact | 1A |
| Voltage - Maximum | 30V |

## Solder Process Data

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

**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
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**
87537Series

**Mates With**
71661 EBBI™ Right Angle Blind Mate Plug, EBBI™ Vertical Blind Mate Plug

| | |
|---|---|
| Lead-free Process Capability | SMC & Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature | 1 |
| Process Temperature max. C | 265 |

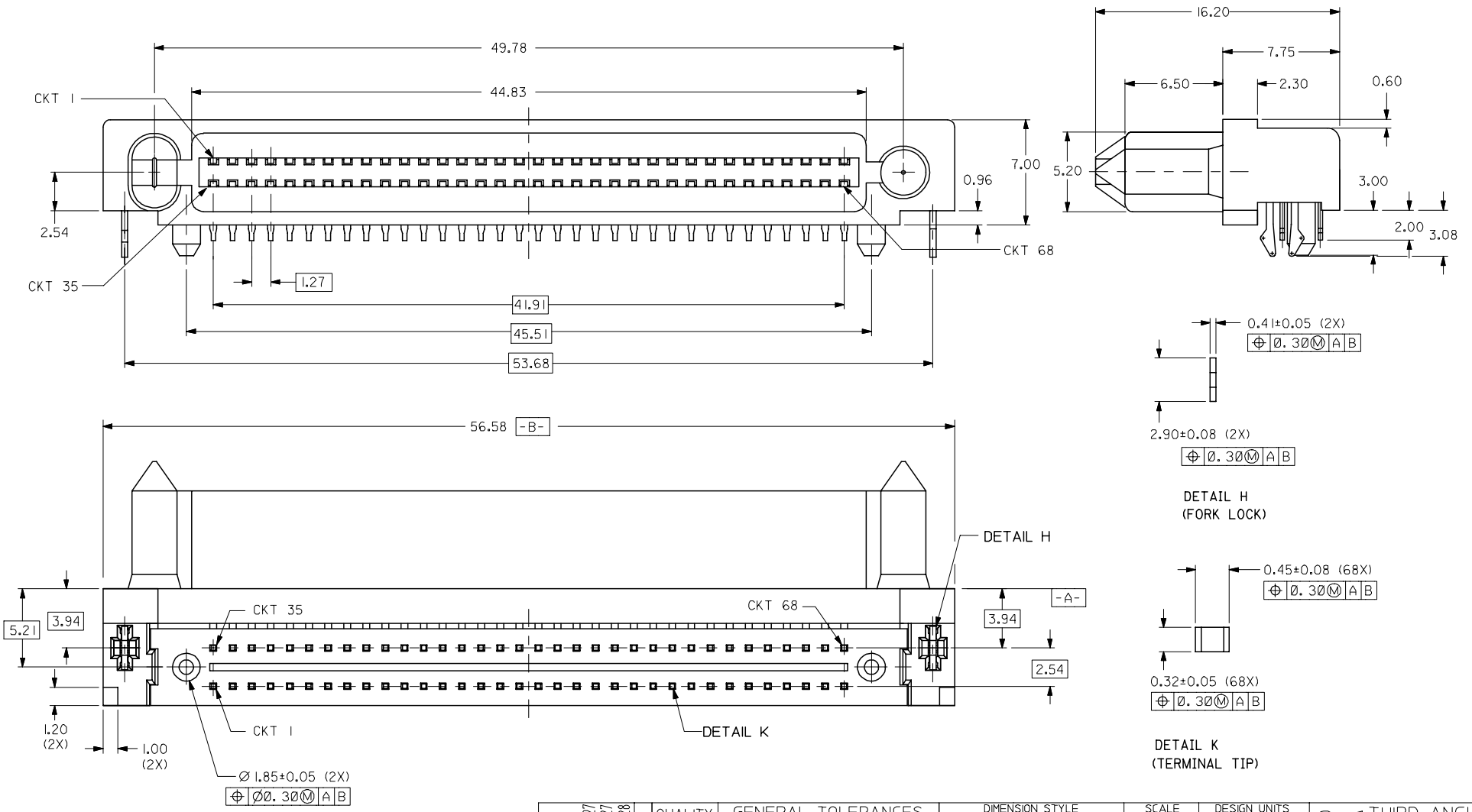
## Material Info

## Reference - Drawing Numbers

| | |
|---|---|
| Sales Drawing | SD-87537-6811 |

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| PART NO. (PACKED IN CARTON) | PART NO. (PACKED IN BIN) | CONTACTS LUBRICATION | CKT SIZE |
|---|---|---|---|
| 87537-8814 5 | 87537-8834 5 | YES | 68 |
| 87537-8812 | 87537-8832 | NO | 68 |

OBS TIN/LEAD P/N
EC NO: S2006-0729 2006/02/27
DRWN:MLONG 2006/02/27
CHKD:SHONG 2006/02/28
APPR:KCLING
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.25 | ± --- |
| 1 PLACE | ± --- | ± --- |
| ANGULAR ± 3 ° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

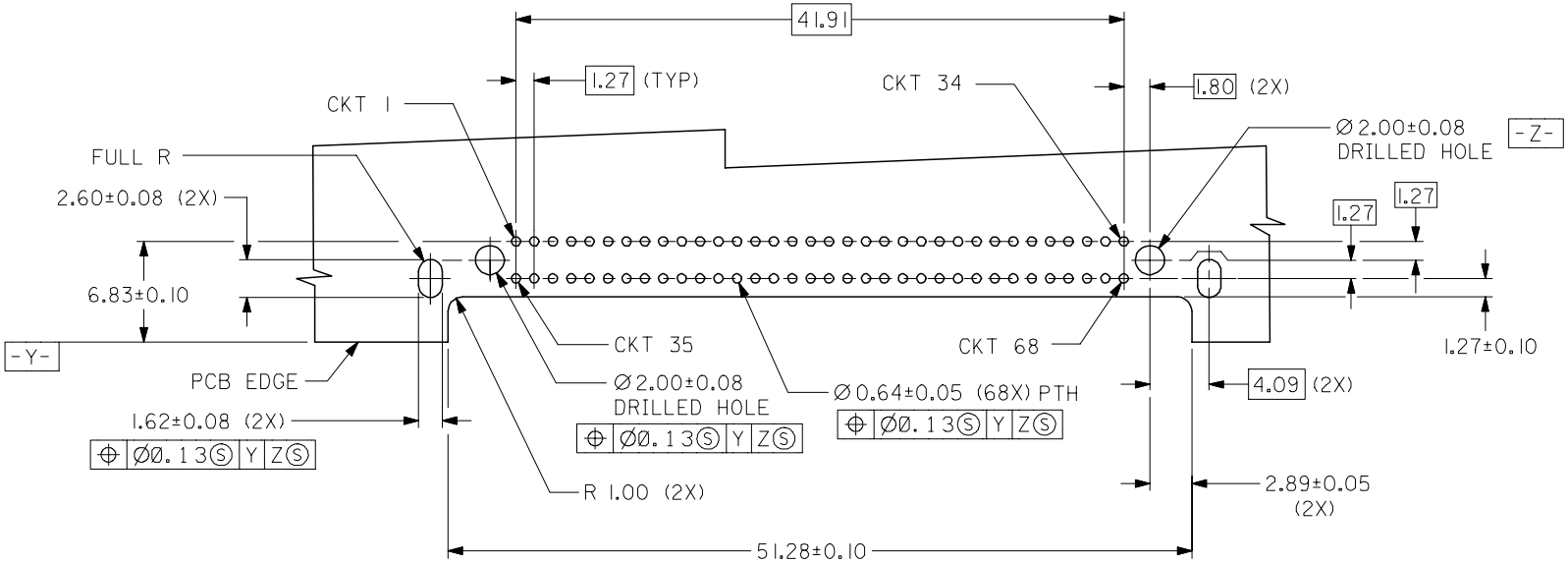
| | DRAWN BY | DATE |
|---|---|---|
| | PTLIM | 1995/12/28 |
| | CHECKED BY | DATE |
| | SKTOH | 1996/03/26 |
| | APPROVED BY | DATE |
| | ROY | 1996/03/26 |

TITLE: EBBI, RECEPTACLE, CONN. 1.27MM CTR, 68 CKTS, BTB B/MATE, 2.54 HT., R/A

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87537-6812
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




## RECOMMENDED PC BOARD LAYOUT △3

## COMPONENT SIDE

NOTES:

1 MATERIALS:
HOUSING- LCP, 30% GLASS FILLED, UL94V-0, BLACK.
TERMINALS- PHOSPHOR BRONZE.

2 PLATING:
0.76uM MIN. GOLD IN SELECTIVE CONTACT AREA AND
2.54uM MIN. TIN IN SOLDER TAIL AREA, BOTH
OVER 1.27uM MIN. NICKEL.

△3 RECOMMENDED P.C. BOARD THICKNESS IS 1.57+/-0.13MM.

4 CIRCUIT #58 TO BE RECESSED 0.50mm BEHIND
ALL OTHER CONTACTS.

△5 PART IS LUBRICATED AT TERMINAL CONTACTS TO MINIMISE
UNMATE FORCE.

OBS TIN/LEAD P/N
EC NO: S2006-0729 2006/02/27
DRWN:MLONG 2006/02/27
CHKD:SHONG 2006/02/28
APPR:KLING
DESCRIPTION
REV

QUALITY SYMBOLS
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| ANGULAR ± 3 ° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

| | |
|---|---|
| DIMENSION STYLE | MM ONLY |
| SCALE | NTS |
| DESIGN UNITS | METRIC |
| | THIRD ANGLE PROJECTION |
| DRAWN BY | PTL IM |
| DATE | 1995/12/28 |
| CHECKED BY | SKTOH |
| DATE | 1996/03/26 |
| APPROVED BY | ROY |
| DATE | 1996/03/26 |
| MATERIAL NO. | SEE TABLE |
| DOCUMENT NO. | SD-87537-6812 |
| SHEET NO. | 2 OF 2 |
| SIZE | A3 |

TITLE: EBBI, RECEPTACLE, CONN. 1.27MM CTR, 68 CKTS, BTB B/MATE, 2.54 HT., R/A

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