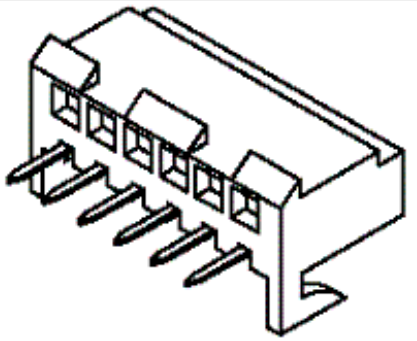
molex
one company > a world of innovation

This document was generated on 04/14/2010

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

**Part Number:** 0009626034
**Status:** Active
**Description:** 3.96mm (.156") Pitch KK® PC Board Connector, Bottom Entry, Nylon Connector, 5.0µm (200µ") Tin (Sn), 3 Circuits



*Series image - Reference only*

**Documents:**

3D Model
Drawing (PDF)
Product Specification PS-08-50 (PDF)
RoHS Certificate of Compliance (PDF)

## Agency Certification

| | |
|---|---|
| UL | E29179 |

## General

| | |
|---|---|
| Product Family | PCB Receptacles |
| Series | 2145 |
| Application | Board-to-Board |
| Product Name | KK® |

## Physical

| | |
|---|---|
| Circuits (Loaded) | 3 |
| Color - Resin | Natural |
| Flammability | 94V-2 |
| Glow-Wire Compliant | No |
| Lock to Mating Part | Yes |
| Material - Metal | Phosphor Bronze |
| Material - Plating Mating | Tin |
| Material - Plating Termination | Tin |
| Material - Resin | Nylon |
| Number of Rows | 1 |
| Orientation | Bottom Entry |
| PC Tail Length (in) | 0.160 In |
| PC Tail Length (mm) | 4.06 mm |
| PCB Locator | No |
| PCB Retention | None |
| PCB Thickness Recommended (in) | 0.062 In |
| PCB Thickness Recommended (mm) | 1.60 mm |
| Packaging Type | Bag |
| Pitch - Mating Interface (in) | 0.156 In |
| Pitch - Mating Interface (mm) | 3.96 mm |
| Plating min: Mating (µin) | 200 |
| Plating min: Mating (µm) | 5.00 |
| Plating min: Termination (µin) | 200 |
| Plating min: Termination (µm) | 5.00 |
| Polarized to PCB | No |
| Temperature Range - Operating | 0°C to +75°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 |
| Lead-free Process Capability | Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature | 1 |
| Process Temperature max. C | 235 |

**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**
2145Series

## Material Info

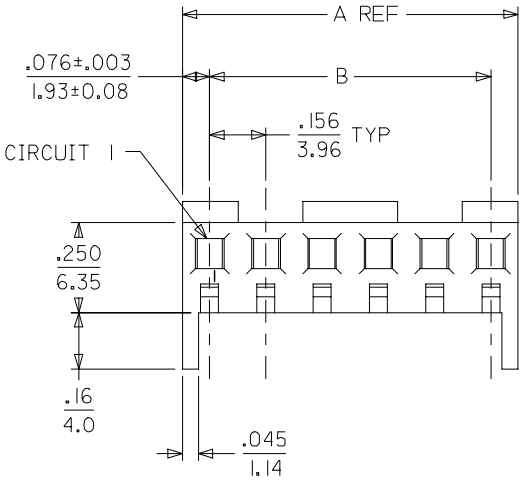
| | |
|---|---|
| Old Part Number | A-2145-BA03L-102 |

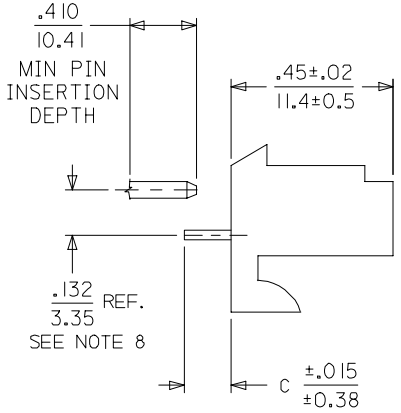
## Reference - Drawing Numbers

| | |
|---|---|
| Product Specification | PS-08-50 |
| Sales Drawing | SDA-2145-003 |

This document was generated on 04/14/2010

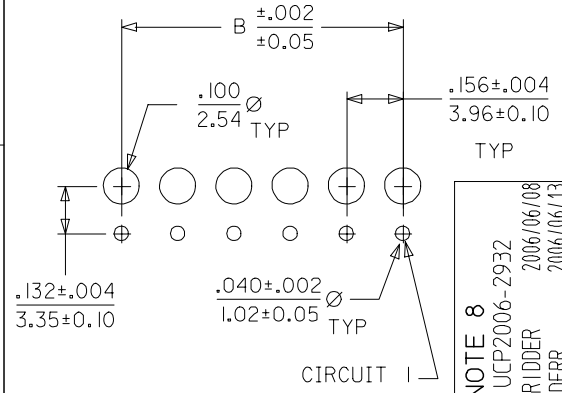
**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**




| CKT | A | B |
|---|---|---|
| 02 | .308<br>7.82 | .156±.005<br>3.96±0.13 |
| 03 | .464<br>11.79 | .312±.005<br>7.92±0.13 |
| 04 | .620<br>15.75 | .468±.005<br>11.89±0.13 |
| 05 | .776<br>19.71 | .624±.005<br>15.85±0.13 |
| 06 | .932<br>23.67 | .780±.005<br>19.81±0.13 |
| 07 | 1.088<br>27.64 | .936±.010<br>23.77±0.25 |
| 08 | 1.244<br>31.60 | 1.092±.010<br>27.74±0.25 |
| 09 | 1.400<br>35.56 | 1.248±.010<br>31.70±0.25 |
| 10 | 1.556<br>39.52 | 1.404±.010<br>35.66±0.25 |
| 11 | 1.712<br>43.48 | 1.560±.010<br>39.62±0.25 |
| 12 | 1.868<br>47.45 | 1.716±.010<br>43.59±0.25 |
| 13 | 2.024<br>51.41 | 1.872±.010<br>47.55±0.25 |
| 14 | 2.180<br>55.37 | 2.028±.014<br>51.51±0.36 |
| 15 | 2.336<br>59.33 | 2.184±.014<br>55.47±0.36 |

NOTES:
1. HOUSING MATERIAL: NYLON, UL 94V-2
2. FINISH:
   (909) = OVERALL HOT TIN DIP: .000100/0.00254 MIN.
   (102) = OVERALL TIN: .000200/0.00508 MIN.
   OVERALL COPPER UNDERPLATE: .000100/0.00254 MIN.
   (154) = OVERALL TIN: .000100/0.00254 MIN.
   OVERALL NICKEL UNDERPLATE: .000050/0.00127 MIN.
   (208) = SELECT GOLD: .000015/0.00038 MIN.
   SELECT TIN: .000100/0.00254 MIN.
   OVERALL NICKEL UNDERPLATE: .000050/0.00127 MIN.
3. PRODUCT SPECIFICATION: PS-08-50
4. PACKAGING INFORMATION: SEE CHARTS.
5. SOLDERABILITY SPECIFICATION: SMES-152
6. RIGHT ANGLE OPTIONS: SEE DRAWING SDA-2145-001.
7. TOP ENTRY OPTIONS: SEE DRAWING SDA-2145-002.
8. .132/3.35 DIMENSION IS CENTER OF TERMINAL TO CENTER OF MATING PIN AND DOES NOT REFLECT CENTER OF THE CONNECTOR HOUSING WINDOW DIMENSION.




PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS .062/1.57

| 2 | Y1 |
|---|---|
| 1 | Y2 |
| SHT. | REV. |

ADD NOTE 8 2006/06/08
EC NO: UCP2006-2932 2006/06/13
DRWN:PRIDDER 2006/06/14
CH'KD:ADERR
APPR:FSMITH
DESCRIPTION
Y2
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± .010 |
| 2 PLACES | ± 0.25 | ± .014 |
| 1 PLACE | ± 0.36 | ± --- |
| ANGULAR ±1/2° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: ---
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: SAMIEC DATE: 01/16/03
CHECKED BY: SAMIEC DATE: 01/16/03
APPROVED BY: MARGULIS DATE: 01/16/03

TITLE: KK 156 HOUSING ASSY
PC TAIL
BOTTOM ENTRY

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-2145-003
SHEET NO.: 1 OF 4

SIZE A

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

# KK 156 PCB ASSY 2-15 CKT

## 2145 BOTTOM ENTRY SERIES

CATALOG PRODUCTS

| OPTIONS | | |
|---|---|---|
| | RAMPS | YES |
| | HOOKS: | YES |
| | COLOR: | WHITE |
| | MOLD VOID: | NONE |
| | TERM MATL: | PHOS BRONZE |
| | CONTACT: | STANDARD |
| | PC TAIL (C): | .160 / 4.06 |
| | PLT CODE: | 102 – TIN |
| | TERM VOID: | NONE |
| | PACKAGING: | TRAY<br>PK-2145-001 |

| OPTIONS | | |
|---|---|---|
| | RAMPS | YES |
| | HOOKS: | YES |
| | COLOR: | WHITE |
| | MOLD VOID: | NONE |
| | TERM MATL: | PHOS BRONZE |
| | CONTACT: | STANDARD |
| | PC TAIL (C): | .160 / 4.06 |
| | PLT CODE: | 208 – 15 GOLD |
| | TERM VOID: | NONE |
| | PACKAGING: | TRAY<br>PK-2145-001 |

| Ckt | Material No | Material No |
|---|---|---|
| 2 | 09-62-6024 | 09-62-4028 |
| 3 | 09-62-6034 | 09-62-4038 |
| 4 | 09-62-6044 | 09-62-4048 |
| 5 | 09-62-6054 | 09-62-4058 |
| 6 | 09-62-6064 | 09-62-4068 |
| 7 | 09-62-6074 | 09-62-4078 |
| 8 | 09-62-6084 | 09-62-4088 |
| 9 | 09-62-6094 | 09-62-4098 |
| 10 | 09-62-6104 | 09-62-4108 |
| 11 | 09-62-6114 | 09-62-4118 |
| 12 | 09-62-6124 | 09-62-4128 |
| 13 | 09-62-6134 | 09-62-4138 |
| 14 | 09-62-6144 | 09-62-4148 |
| 15 | 09-62-6154 | 09-62-4158 |

| REV: | REV FORMAT | TITLE: | SHEET No. |
|---|---|---|---|
| **Y1** | **UCP2004-2560**<br>**4/12/2004 SAMIEC** | KK 156 PCB ASSY<br>2145 BOTTOM ENTRY SERIES | **- 2 -** |

| DOCUMENT NUMBER: | CREATED / REVISED BY: | CHECKED BY: | APPROVED BY: |
|---|---|---|---|
| **SDA-2145-003** | **SAMIEC** | **SAMIEC** | **MARGULIS** |

# KK 156 PCB ASSY 2-15 CKT

## 2145 BOTTOM ENTRY SERIES

CUSTOM PRODUCTS

| OPTIONS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | RAMPS | YES | RAMPS | YES | RAMPS | YES | RAMPS | YES |
| | HOOKS: | YES | HOOKS: | YES | HOOKS: | YES | HOOKS: | YES |
| | COLOR: | WHITE | COLOR: | WHITE | COLOR: | WHITE | COLOR: | WHITE |
| | MOLD VOID: | NONE | MOLD VOID: | NONE | MOLD VOID: | NONE | MOLD VOID: | NONE |
| | TERM MATL: | PHOS BRONZE | TERM MATL: | BRASS | TERM MATL: | BRASS | TERM MATL: | BRASS |
| | CONTACT: | STANDARD | CONTACT: | STANDARD | CONTACT: | STANDARD | CONTACT: | STANDARD |
| | PC TAIL (C): | .160 / 4.06 | PC TAIL (C): | .160 / 4.06 | PC TAIL (C): | .160 / 4.06 | PC TAIL (C): | .126 / 3.20 |
| | PLT CODE: | P909 – TIN | PLT CODE: | P909 – TIN | PLT CODE: | 208 – 15 GOLD | PLT CODE: | P909 – TIN |
| | TERM VOID: | NONE | TERM VOID: | NONE | TERM VOID: | NONE | TERM VOID: | NONE |
| | PACKAGING: | TRAY PK-2145-001 | PACKAGING: | TRAY PK-2145-001 | PACKAGING: | TRAY PK-2145-001 | PACKAGING: | TRAY PK-2145-001 |

| Ckt | Material No | Material No | Material No | Material No |
|---|---|---|---|---|
| 2 | 09-52-2028 | 09-52-3022 | 09-62-3022 | 09-52-5022 |
| 3 | 09-52-2038 | 09-52-3032 | 09-62-3032 | 09-52-5032 |
| 4 | 09-52-2048 | 09-52-3042 | 09-62-3042 | 09-52-5042 |
| 5 | 09-52-2058 | 09-52-3052 | 09-62-3052 | 09-52-5052 |
| 6 | 09-52-2068 | 09-52-3062 | 09-62-3062 | 09-52-5062 |
| 7 | 09-52-2078 | 09-52-3072 | 09-62-3072 | 09-52-5072 |
| 8 | 09-52-2088 | 09-52-3082 | 09-62-3082 | 09-52-5082 |
| 9 | 09-52-2098 | 09-52-3092 | 09-62-3092 | 09-52-5092 |
| 10 | 09-52-2108 | 09-52-3102 | 09-62-3102 | 09-52-5102 |
| 11 | 09-52-2118 | 09-52-3112 | 09-62-3112 | 09-52-5112 |
| 12 | 09-52-2128 | 09-52-3122 | 09-62-3122 | 09-52-5122 |
| 13 | 09-52-2138 | 09-52-3132 | 09-62-3132 | 09-52-5132 |
| 14 | 09-52-2148 | 09-52-3142 | 09-62-3142 | 09-52-5142 |
| 15 | 09-52-2158 | 09-52-3152 | 09-62-3152 | 09-52-5152 |

| REV: | REV FORMAT | TITLE: | SHEET No. |
|---|---|---|---|
| **Y1** | **UCP2004-2560**<br>**4/12/2004 SAMIEC** | KK 156 PCB ASSY<br>2145 BOTTOM ENTRY SERIES | **- 3 -** |

| DOCUMENT NUMBER: | CREATED / REVISED BY: | CHECKED BY: | APPROVED BY: |
|---|---|---|---|
| **SDA-2145-003** | **SAMIEC** | **SAMIEC** | **MARGULIS** |

# KK 156 PCB ASSY 2-15 CKT

## 2145 BOTTOM ENTRY SERIES

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Assy Proc: | BOTTOM ENTRY | Assy Proc: | | Assy Proc: | | Assy Proc: | |
| | Housing No: | 2145-N-AN | Housing No: | | Housing No: | | Housing No: | |
| | Terminal No: | 6298-154 | Terminal No: | | Terminal No: | | Terminal No: | |
| | Dim C: | .160 / 4.06 | Dim C: | | Dim C: | | Dim C: | |
| | Plating: | 154-TIN | Plating: | | Plating: | | Plating: | |
| | Packaging: | PK-2145-001 | Packaging: | | Packaging: | | Packaging: | |
| | Voids: | NO | Voids: | | Voids: | | Voids: | |
| | | | | | | | | |
| Ckts | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number |
| 2 | 50-30-4405 | A-2145-BA02L-154 | | | | | | |
| 3 | 50-30-4406 | A-2145-BA03L-154 | | | | | | |
| 4 | 50-30-4407 | A-2145-BA04L-154 | | | | | | |
| 5 | 50-30-4408 | A-2145-BA05L-154 | | | | | | |
| 6 | 50-30-4409 | A-2145-BA06L-154 | | | | | | |
| 7 | 50-30-4411 | A-2145-BA07L-154 | | | | | | |
| 8 | 50-30-4412 | A-2145-BA08L-154 | | | | | | |
| 9 | 50-30-4413 | A-2145-BA09L-154 | | | | | | |
| 10 | 50-30-4414 | A-2145-BA10L-154 | | | | | | |
| 11 | 50-30-4415 | A-2145-BA11L-154 | | | | | | |
| 12 | 50-30-4416 | A-2145-BA12L-154 | | | | | | |
| 13 | 50-30-4417 | A-2145-BA13L-154 | | | | | | |
| 14 | 50-30-4418 | A-2145-BA14L-154 | | | | | | |
| 15 | 50-30-4419 | A-2145-BA15L-154 | | | | | | |