

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0009521046](#)
Status: **Active**
Description: 3.96mm (.156") Pitch KK@ PC Board Connector, Right Angle, Nylon Connector, 5.0µm (200µ") Tin (Sn), 4 Circuits

Documents:

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

Agency Certification

UL E29179

General

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

Physical

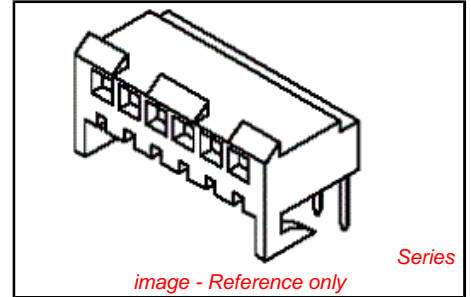
Circuits (Loaded) 4
 Color - Resin Natural
 Flammability 94V-2
 Glow-Wire Compliant No
 Lock to Mating Part Yes
 Material - Metal Phosphor Bronze
 Material - Plating Mating Tin
 Material - Plating Termination Tin
 Material - Resin Nylon
 Number of Rows 1
 Orientation Right Angle
 PC Tail Length (in) 0.145 In
 PC Tail Length (mm) 3.68 mm
 PCB Locator No
 PCB Retention Yes
 PCB Thickness Recommended (in) 0.062 In
 PCB Thickness Recommended (mm) 1.60 mm
 Packaging Type Bag, Tray
 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 Yes
 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



<p>EU RoHS ELV and RoHS Compliant REACH SVHC Contains SVHC: No Halogen-Free Status Not Reviewed</p>	<p>China RoHS</p>
--	--------------------------

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-AA04B-102

Reference - Drawing Numbers

Product Specification

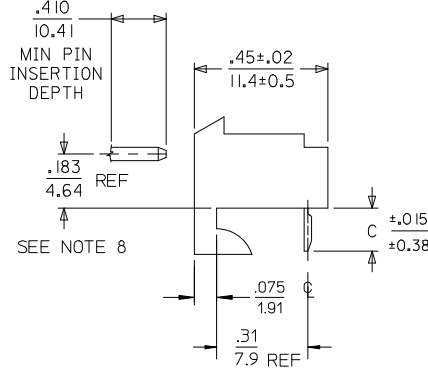
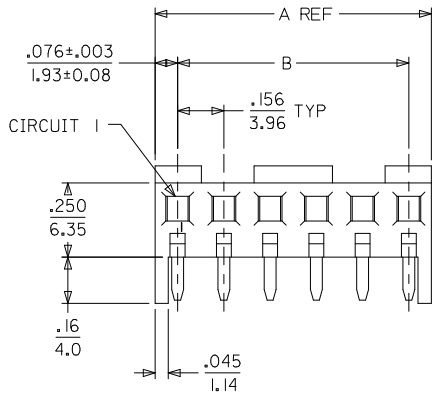
PS-08-50

Sales Drawing

SDA-2145-001, SDA-2145-004

This document was generated on 04/14/2010

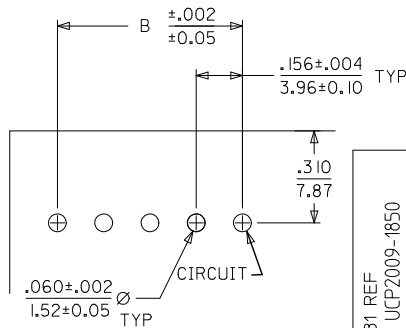
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



NOTES:

- HOUSING MATERIAL: NYLON, UL 94V-2
- FINISH:
 - (909) OVERALL HOT TIN DIP: .000100/0.00254 MIN.
 - (122) OVERALL TIN: .000150/0.00281 MIN.
 - OVERALL NICKEL UNDERPLATE: .000030/0.00076 MIN.
 - (558) SELECT GOLD: .000030/0.00076 MIN.
 - WITH OVERALL GOLD FLASH .000002/0.00005 MIN.
 - OVERALL NICKEL UNDERPLATE: .000050/0.00127 MIN.
 - (102) OVERALL TIN: .000200/0.00508 MIN.
 - OVERALL COPPER UNDERPLATE .000100/0.00254 MIN.
 - (208) SELECT GOLD: .000015/0.00038 MIN.
 - SELECT TIN: .000100/0.00254 MIN.
 - OVERALL NICKEL UNDERPLATE: .000050/0.00127 MIN.
- PRODUCT SPECIFICATION: PS-08-50
- PACKAGING INFO: SEE CHARTS.
- SOLDERABILITY SPECIFICATION: SMES-152.
- TOP ENTRY OPTIONS: SEE DRAWING SDA-2145-002.
- BOTTOM ENTRY OPTIONS: SEE DRAWING SDA-2145-003
- .183/4.64 DIMENSION IS BOTTOM OF HOUSING TO CENTER OF MATING PIN AND DOES NOT REFLECT CENTER OF THE CONNECTOR HOUSING WINDOW DIMENSION.
- THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION.

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



PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: .062/157

ADD: .31 REF	EC NO: UCP2009-1850	2009/01/27
DRW: KSAMIEC	CHKD: JOMERC I	2009/01/27
APPR: JOMERC I	REV	DESCRIPTION
Z		

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .015
1 PLACE	± 0.38	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE IN/MM

DRAWN BY	DATE
SAMIEC	
CHECKED BY	DATE
SAMIEC	
APPROVED BY	DATE
MARGULIS	
MATERIAL NO.	
SEE CHART	

SCALE

TITLE

DESIGN UNITS

INCH

THIRD ANGLE PROJECTION

KK 156 PCB ASSY
RIGHT ANGLE ENTRY



MOLEX INCORPORATED

DOCUMENT NO.

SDA-2145-001

SHEET NO.

1 OF *

2*	Y2
1	Y5
SHT	REV.

tb_frame_A_P_AM_T
Rev. E 2006/04/15

5

4

3

2

1



KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES

OPTIONS	RAMPS:	YES	RAMPS:	YES
	HOOKS:	YES	HOOKS:	YES
	COLOR:	WHITE	COLOR:	WHITE
	MOLD VOID:	NONE	MOLD VOID:	NONE
	TERM MATL:	PHOS BRONZE	TERM MATL:	PHOS BRONZE
	CONTACT:	STANDARD	CONTACT:	STANDARD
	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	.145 / 3.68
	PLATING:	102 - TIN	PLATING:	208 - GOLD
	TERM VOID:	NONE	TERM VOID:	NONE
	PACKAGING:	TRAY PK-2145-001	PACKAGING:	TRAY PK-2145-001
Ckts	Material No		Material No	
2	09-52-1026		09-62-4027	
3	09-52-1036		09-62-4037	
4	09-52-1046		09-62-4047	
5	09-52-1056		09-62-4057	
6	09-52-1066		09-62-4067	
7	09-52-1076		09-62-4077	
8	09-52-1086		09-62-4087	
9	09-52-1096		09-62-4097	
10	09-52-1106		09-62-4107	
11	09-52-1116		09-62-4117	
12	09-52-1126		09-62-4127	
13	09-52-1136		09-62-4137	
14	09-52-1146		09-62-4147	
15	09-52-1156		09-62-4157	

REV:	3/9/2005 SAMIEC	<u>TITLE:</u>		<u>SHEET No.</u>
Y₂		KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES		- 2 -
<u>DOCUMENT NUMBER:</u>	SDA-2145-001	<u>CREATED / REVISED BY:</u>	SAMIEC	<u>CHECKED BY:</u>
		SAMIEC	SAMIEC	<u>APPROVED BY:</u>
				MARGULIS

TEMPLATE FILENAME: PRODUCT_SPEC\SIZE_A\{V.1}.DOC



KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES

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:	BRASS	TERM MATL:	BRASS	TERM MATL:	PHOS BRONZE	TERM MATL:	BRASS
	CONTACT:	STANDARD	CONTACT:	STANDARD	CONTACT:	STANDARD	CONTACT:	STANDARD
	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	.145 / 3.68
	PLT CODE:	102 - TIN	PLT CODE:	122 - TIN	PLT CODE:	558 - 30 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	09-52-1021	09-86-3021	09-62-3025	09-52-3021				
3	09-52-1031	09-86-3031	09-62-3035	09-52-3031				
4	09-52-1041	09-86-3041	09-62-3045	09-52-3041				
5	09-52-1051	09-86-3051	09-62-3055	09-52-3051				
6	09-52-1061	09-86-3061	09-62-3065	09-52-3061				
7	09-52-1071	09-86-3071	09-62-3075	09-52-3071				
8	09-52-1081	09-86-3081	09-62-3085	09-52-3081				
9	09-52-1091	09-86-3091	09-62-3095	09-52-3091				
10	09-52-1101	09-86-3101	09-62-3105	09-52-3101				
11	09-52-1111	09-86-3111	09-62-3115	09-52-3111				
12	09-52-1121	09-86-3121	09-62-3125	09-52-3121				
13	09-52-1131	09-86-3131	09-62-3135	09-52-3131				
14	09-52-1141	09-86-3141	09-62-3145	09-52-3141				
15	09-52-1151	09-86-3151	09-62-3155	09-52-3151				

<input type="checkbox"/> RAMPS	YES	<input type="checkbox"/> RAMPS	YES	<input type="checkbox"/> RAMPS	NO	<input type="checkbox"/> RAMPS	YES
--------------------------------	-----	--------------------------------	-----	--------------------------------	----	--------------------------------	-----

REV: Y₂	3/9/2005 SAMIEC	TITLE: KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES	SHEET No.	- 3 -
------------------------------	--------------------	---	-----------	--------------

DOCUMENT NUMBER: SDA-2145-001	CREATED / REVISED BY: SAMIEC	CHECKED BY: SAMIEC	APPROVED BY: MARGULIS
---	--	------------------------------	---------------------------------



KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES

	HOOKS:	YES	HOOKS:	YES	HOOKS:	YES	HOOKS:	YES
	COLOR:	BLACK	COLOR:	WHITE	COLOR:	WHITE	COLOR:	WHITE
	MOLD VOID:	NONE	MOLD VOID:	NONE	MOLD VOID:	NONE	MOLD VOID:	NONE
	TERM MATL:	BRASS	TERM MATL:	BRASS	TERM MATL:	BRASS	TERM MATL:	BRASS
	CONTACT:	STANDARD	CONTACT:	STANDARD	CONTACT:	STANDARD	CONTACT:	LOW INSERTION
	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	.145 / 3.68
	PLT CODE:	P909 – TIN	PLT CODE:	208 – 15 GOLD	PLT CODE:	P909 – TIN	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	09-53-3021		09-62-3021					
3	09-53-3031		09-62-3031				09-52-3035	
4	09-53-3041		09-62-3041				09-52-3045	
5	09-53-3051		09-62-3051				09-52-3055	
6	09-53-3061		09-62-3061				09-52-3065	
7	09-53-3071		09-62-3071					
8	09-53-3081		09-62-3081				09-52-3085	
9	09-53-3091		09-62-3091		09-52-2097		09-52-3095	
10	09-53-3101		09-62-3101				09-52-3105	
11	09-53-3111		09-62-3111					
12	09-53-3121		09-62-3121				09-52-3125	
13	09-53-3131		09-62-3131					
14	09-53-3141		09-62-3141					
15	09-53-3151		09-62-3151				09-52-3155	

REV:	3/9/2005 SAMIEC	TITLE: KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES	SHEET No. - 4 -
DOCUMENT NUMBER:	SDA-2145-001	CREATED / REVISED BY:	SAMIEC
		CHECKED BY:	SAMIEC
		APPROVED BY:	MARGULIS

TEMPLATE FILENAME: PRODUCT_SPEC\SIZE_A\ (V.1).DOC



KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES

OPTIONS	RAMPS	YES	RAMPS	YES	RAMPS	YES	RAMPS	
	HOOKS:	YES	HOOKS:	YES	HOOKS:	YES	HOOKS:	
	COLOR:	WHITE	COLOR:	WHITE	COLOR:	WHITE	COLOR:	
	MOLD VOID:	NONE	MOLD VOID:	NONE	MOLD VOID:	NONE	MOLD VOID:	
	TERM MATL:	PHOS BRONZE	TERM MATL:	PHOS BRONZE	TERM MATL:	PHOS BRONZE	TERM MATL:	
	CONTACT:	STANDARD	CONTACT:	STANDARD	CONTACT:	LOW FORCE	CONTACT:	
	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	
	PLT CODE:	122 – TIN	PLT CODE:	P909 – TIN	PLT CODE:	102 – TIN	PLT CODE:	
	TERM VOID:	NONE	TERM VOID:	NONE	TERM VOID:	NONE	TERM VOID:	
	PACKAGING:	TRAY PK-2145-001	PACKAGING:	TRAY PK-2145-001	PACKAGING:	TRAY PK-2145-001	PACKAGING:	
Ckt	Material No		Material No		Material No		Material No	
2				09-52-3028		50-29-0036		
3				09-52-3038		50-29-0037 09-52-1030		
4		09-86-3044		09-52-3048		50-29-0038		
5		09-86-3054		09-52-3058		50-29-0039		
6		09-86-3064		09-52-3068		09-52-1060		
7				09-52-3078		50-29-0040		
8		09-86-3084		09-52-3088		09-52-1080		
9				09-52-3098		50-29-0041		
10		09-86-3104		09-52-3108		09-52-1100		
11				09-52-3118		50-29-0042		
12		09-86-3124		09-52-3128		09-52-1120		
13				09-52-3138		50-29-0043		
14				09-52-3148		09-52-1140		
15				09-52-3158		50-29-0044		

REV:	3/9/2005 SAMIEC	<u>TITLE:</u>		<u>SHEET No.</u>
Y₂		KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES		- 5 -
DOCUMENT NUMBER:	SDA-2145-001	CREATED / REVISED BY:	SAMIEC	CHECKED BY:
			SAMIEC	MARGULIS

TEMPLATE FILENAME: PRODUCT_SPEC\SIZE_A\ (V.1).DOC



KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES

CUSTOM PRODUCTS

OPTIONS	RAMPS:	YES	RAMPS:		RAMPS:		RAMPS:	
	HOOKS:	YES	HOOKS:		HOOKS:		HOOKS:	
	COLOR:	WHITE	COLOR:		COLOR:		COLOR:	
	MOLD VOID:	NONE	MOLD VOID:		MOLD VOID:		MOLD VOID:	
	TERM MATL:	BRASS	TERM MATL:		TERM MATL:		TERM MATL:	
	CONTACT:	STANDARD	CONTACT:		CONTACT:		CONTACT:	
	PC TAIL (C):	.145 / 3.68	PC TAIL (C):		PC TAIL (C):		PC TAIL (C):	
	PLT CODE:	P909 – TIN	PLT CODE:		PLT CODE:		PLT CODE:	
	TERM VOID:	NONE	TERM VOID:		TERM VOID:		TERM VOID:	
	PACKAGING:	TRAY PK-2145-001	PACKAGING:		PACKAGING:		PACKAGING:	
Ckt	Material No.	Engineering No.	Material No.	Engineering No.	Material No.	Engineering No.	Material No.	Engineering No.
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12	50-29-1880	A-2145-AA12A-P909						
13								
14								
15								

REV: A		TITLE: KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES	SHEET No. - 2 -
DOCUMENT NUMBER: SDA-2145-004	CREATED / REVISED BY: DRATNOL 12/09/2004	CHECKED BY: SAMIEC 12/09/2004	APPROVED BY: MARGULIS 12/09/2004

TEMPLATE FILENAME: PRODUCT_SPEC\SIZE_A\ (V.1).DOC