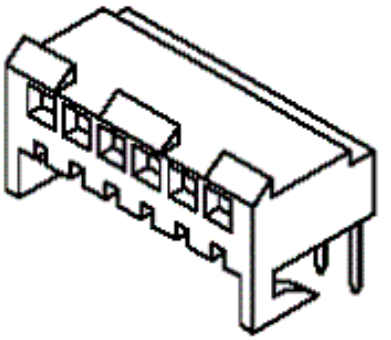
This document was generated on 04/14/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0009521036

Status: Active

Description: 3.96mm (.156") Pitch KK® PC Board Connector, Right Angle, 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	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
Plating min: Termination (µin)	200
Plating min: Termination (µm)	5
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

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
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

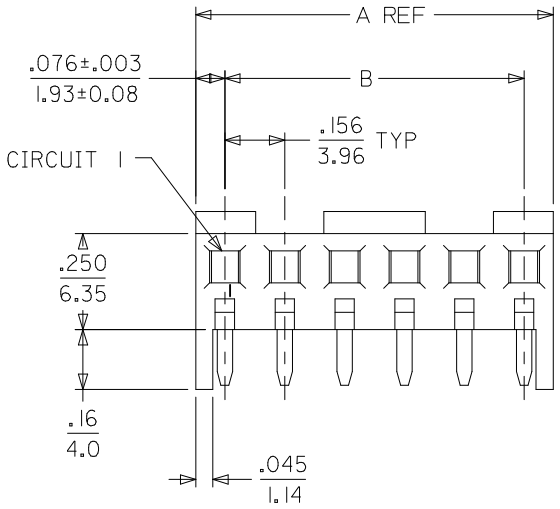
Old Part Number	A-2145-AA03B-102

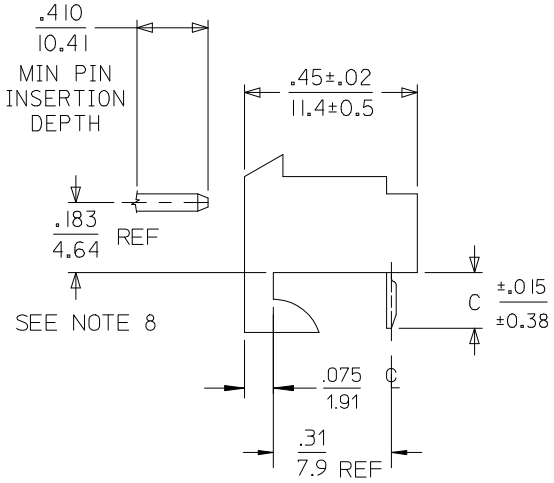
Reference - Drawing Numbers

Product Specification	PS-08-50
Sales Drawing	SDA-2145-001, SDA-2145-004

This document was generated on 04/14/2010

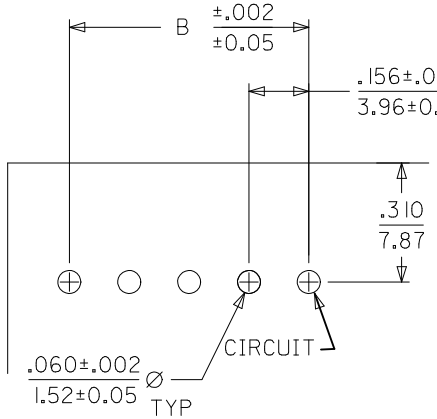
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION





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

NOTES:
1. HOUSING MATERIAL: NYLON, UL 94V-2
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.
3. PRODUCT SPECIFICATION: PS-08-50
4. PACKAGING INFO: SEE CHARTS.
5. SOLDERABILITY SPECIFICATION: SMES-152.
6. TOP ENTRY OPTIONS: SEE DRAWING SDA-2145-002.
7. BOTTOM ENTRY OPTIONS: SEE DRAWING SDA-2145-003
8. .183/4.64 DIMENSION IS BOTTOM OF HOUSING TO CENTER OF MATING PIN AND DOES NOT REFLECT CENTER OF THE CONNECTOR HOUSING WINDOW DIMENSION.
9. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION.



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

2*	Y2
1	Y5
SHT	REV.

REV	DESCRIPTION		
Z	ADD .31 REF	2009/01/27	
	EC NO: UCP2009-1850	2009/01/27	
	DRWN:KSAMIEC	2009/01/27	
	CH'KD:		
	APPR: JCOMERCI	2009/01/27	

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
SCALE:
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: SAMIEC DATE:
CHECKED BY: SAMIEC DATE:
APPROVED BY: MARGULIS DATE:

TITLE: KK 156 PCB ASSY RIGHT ANGLE ENTRY

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-2145-001
SHEET NO.: 1 OF *

SIZE A

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

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

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	09-5
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

– O	RAMPS	YES	RAMPS	YES	RAMPS	NO	RAMPS	YES

REV:		TITLE:	SHEET No.
Y_2	3/9/2005 SAMIEC	KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES	- 3 -

DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
SDA-2145-001	SAMIEC	SAMIEC	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:		TITLE:	SHEET No.
Y_2	3/9/2005 SAMIEC	KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES	- 4 -

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

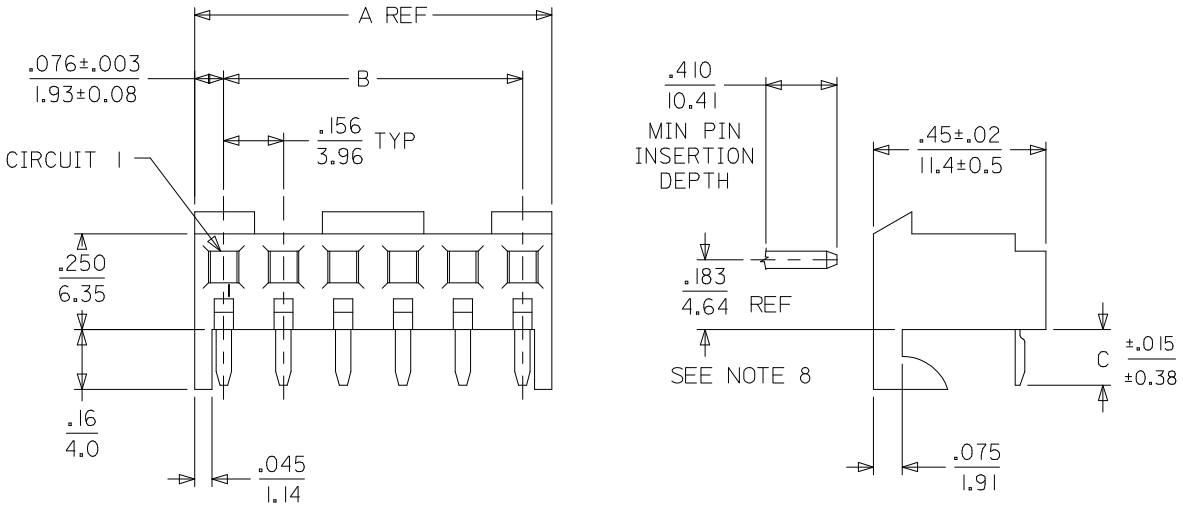
KK 156 PCB ASSY
2145 RIGHT ANGLE SERIES

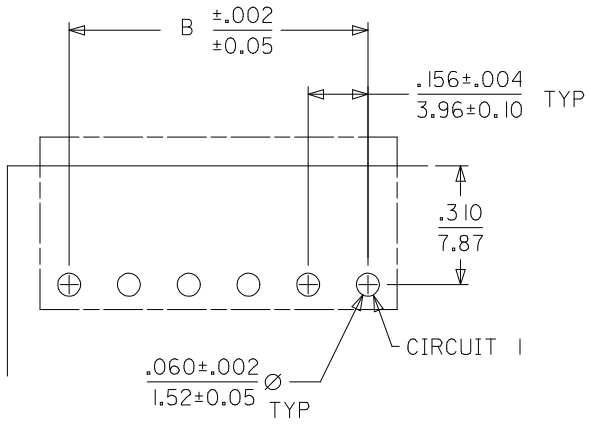
OPTIONS								
	RAMPS	YES	RAMPS	YES	RAMPS	YES	RAMPS	
	HOOKS:	YES	HOOKS:	YES	HOOKS:	YES	HOOKS:	
	COLOR:	WHITE	COLOR:	WHITE	COLOR:	WHITE	COLOR:	
	MOLD VOID:	NONE	MOLD VOID:	NONE	MOLD VOID:	NONE	MOLD VOID:	
	TERM MATL:	PHOS BRONZE	TERM MATL:	PHOS BRONZE	TERM MATL:	PHOS BRONZE	TERM MATL:	
	CONTACT:	STANDARD	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:		TITLE:	SHEET No.
Y_2	3/9/2005 SAMIEC	KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES	- 5 -

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





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

NOTES:
1. HOUSING MATERIAL: NYLON, UL 94V-2
2. FINISH:
   (909) = OVERALL HOT TIN DIP: .000100/0.00254 MIN.
3. PRODUCT SPECIFICATION: PS-08-50
4. PACKAGING INFO: SEE CHARTS.
5. SOLDERABILITY SPECIFICATION: SMES-152.
6. TOP ENTRY OPTIONS: SEE DRAWING SDA-2145-002.
7. BOTTOM ENTRY OPTIONS: SEE DRAWING SDA-2145-003
8. .183/4.64 DIMENSION IS BOTTOM OF HOUSING TO CENTER OF MATING PIN AND DOES NOT REFLECT CENTER OF THE CONNECTOR HOUSING WINDOW DIMENSION.

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

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

REV: A1

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

		DATE
DRAWN BY	DRATNOL	2004/12/09
CHECKED BY	SAMIEC	2004/12/09
APPROVED BY	MARGULIS	2004/12/09

TITLE: KK 156 HOUSING ASSY
PC TAIL
RIGHT ANGLE ENTRY

MOLEX INCORPORATED

MATERIAL NO.: 50-29-1880
DOCUMENT NO.: SDA-2145-004
SHEET NO.: 1 OF 2

SIZE: A

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

KK 156 PCB ASSY
2145 RIGHT ANGLE SERIES

CUSTOM PRODUCTS

OPTIONS										
	RAMPS	YES	RAMPS		RAMPS		RAMPS		RAMPS	
	HOOKS:	YES	HOOKS:		HOOKS:		HOOKS:		HOOKS:	
	COLOR:	WHITE	COLOR:		COLOR:		COLOR:		COLOR:	
	MOLD VOID:	NONE	MOLD VOID:		MOLD VOID:		MOLD VOID:		MOLD VOID:	
	TERM MATL:	BRASS	TERM MATL:		TERM MATL:		TERM MATL:		TERM MATL:	
	CONTACT:	STANDARD	CONTACT:		CONTACT:		CONTACT:		CONTACT:	
	PC TAIL (C):	.145 / 3.68	PC TAIL (C):		PC TAIL (C):		PC TAIL (C):		PC TAIL (C):	
	PLT CODE:	P909 – TIN	PLT CODE:		PLT CODE:		PLT CODE:		PLT CODE:	
	TERM VOID:	NONE	TERM VOID:		TERM VOID:		TERM VOID:		TERM VOID:	
	PACKAGING:	TRAY PK-2145-001	PACKAGING:		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:		TITLE:	SHEET No.
A		KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES	**- 2 -**

DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
SDA-2145-004	**DRATNOL 12/09/2004**	**SAMIEC 12/09/2004**	**MARGULIS 12/09/2004**