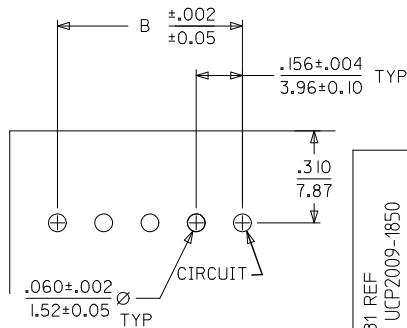


NOTES:

- 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	2009/01/27
EC NO: UCP2009-1850	2009/01/27
DRWNG: SAMIEC	2009/01/27
CHKD: JOMERC I	2009/01/27
APPR: JOMERC I	2009/01/27
REV	DESCRIPTION
Z	

GENERAL TOLERANCES (UNLESS SPECIFIED)	
	INCH
4 PLACES	±.010
3 PLACES	±.015
2 PLACES	±.025
1 PLACE	±.038
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	
SIZE	
A	

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	INCH	
TITLE		
KK 156 PCB ASSY RIGHT ANGLE ENTRY		
molex MOLEX INCORPORATED		
DOCUMENT NO.	SHEET NO.	
SDA-2145-001	1 OF *	

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 -
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
SDA-2145-001	SAMIEC	SAMIEC	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	<input type="checkbox"/> YES	<input type="checkbox"/> RAMPS	<input type="checkbox"/> YES	<input type="checkbox"/> RAMPS	<input type="checkbox"/> NO	<input type="checkbox"/> RAMPS	<input type="checkbox"/> YES
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REV:	3/9/2005 SAMIEC	TITLE: KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES	SHEET No.	- 3 -
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DOCUMENT NUMBER: SDA-2145-001	CREATED / REVISED BY: SAMIEC	CHECKED BY: SAMIEC	APPROVED BY: MARGULIS
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TEMPLATE FILENAME: PRODUCT_SPEC\SIZE_A[V.1].DOC



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: Y₂	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