

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0009484148](#)
Status: **Active**
Description: 3.96mm (.156") Pitch KK® PC Board Connector, Top Entry, Polyester Connector, 5.0µm (200µ") Tin (Sn), 14 Circuits

Documents:

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

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Receptacles
Series	41815
Application	Board-to-Board
Product Name	KK®

Physical

Circuits (Loaded)	14
Color - Resin	Natural
Flammability	94V-0
Glow-Wire Compliant	No
Lock to Mating Part	Yes
Material - Metal	Phosphor Bronze
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Polyester
Number of Rows	1
Orientation	Vertical
PC Tail Length (in)	0.120 In
PC Tail Length (mm)	3.05 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

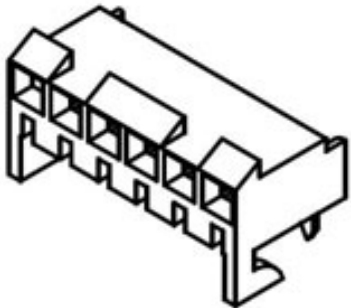


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Contains SVHC: No
Halogen-Free
Status

Not Reviewed

**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.

China RoHS



Search Parts in this Series
[41815Series](#)

Material Info

Old Part Number

A-41815-0070

Reference - Drawing Numbers

Product Specification

PS-08-50

Sales Drawing

SDA-41815

This document was generated on 04/14/2010

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F

E

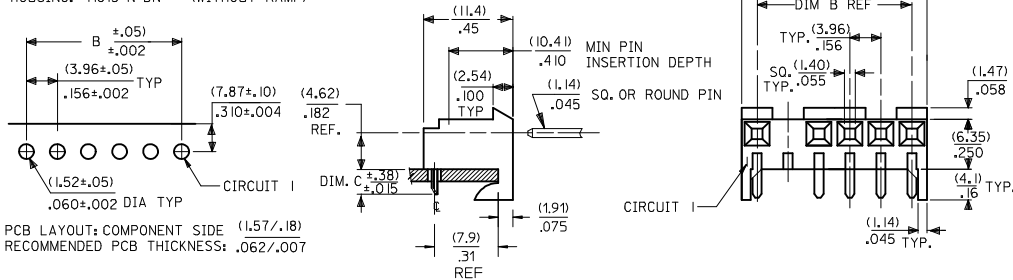
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C

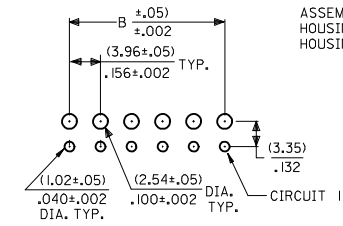
B

A

ASSEMBLY PROCEDURE A
HOUSING: 41815-N-AN-**-*(WITH RAMP)
HOUSING: 41815-N-DN-**-*(WITHOUT RAMP)

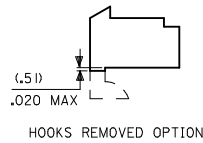
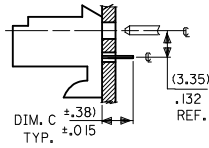


PCB LAYOUT: COMPONENT SIDE (1.57±.18)
RECOMMENDED PCB THICKNESS: .062±.007

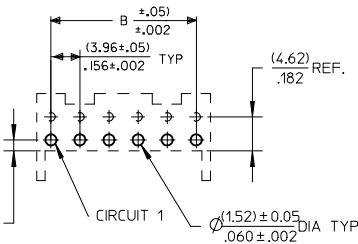


PCB LAYOUT: COMPONENT SIDE (1.57±.18)
RECOMMENDED PCB THICKNESS: .062±.007

ASSEMBLY PROCEDURE B
HOUSING: 41815-N-AN-**-*(WITH RAMP)
HOUSING: 41815-N-DN-**-*(WITHOUT RAMP)

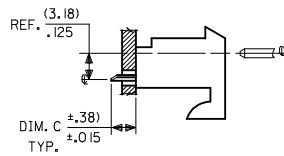


HOOKS REMOVED OPTION



PCB LAYOUT: COMPONENT SIDE (1.57±.18)
RECOMMENDED PCB THICKNESS: .062±.007

ASSEMBLY PROCEDURE C
HOUSING: 41815-N-AN-**-*(WITH RAMP)
HOUSING: 41815-N-DN-**-*(WITHOUT RAMP)



DIM. B	DIM. A	NO. OF CKTS
(3.96) .156	(7.82±.25) .308±.010	2
(7.92) .312	(11.79±.25) .464±.010	3
(11.89) .468	(15.75±.25) .620±.010	4
(15.85) .624	(19.71±.25) .776±.010	5
(19.81) .780	(23.67±.25) .932±.010	6
(23.77) .936	(27.64±.30) 1.088±.012	7
(27.74) 1.092	(31.60±.25) 1.244±.012	8
(31.70) 1.248	(35.56±.30) 1.400±.012	9
(35.66) 1.404	(39.52±.30) 1.556±.012	10
(39.62) 1.560	(43.48±.30) 1.712±.012	11
(43.59) 1.716	(47.45±.30) 1.868±.012	12
(47.55) 1.872	(51.41±.30) 2.024±.012	13
(51.51) 2.028	(55.37±.36) 2.180±.014	14
(55.47) 2.184	(59.33±.36) 2.336±.014	15

NOTES:

- MATERIAL: HOUSING: POLYESTER, 94V-0 COLOR: NATURAL (WHITE)
- FINISH:
 - (102) OVERALL TIN: 0.00508/0.00200 MIN OVER 0.00254/0.00100 MIN COPPER.
 - (208) SELECT GOLD: 0.00038/0.00015 MIN,
 - * SELECT TIN: 0.00254/0.00100 MIN,
 - OVERALL NICKEL UNDERPLATE: 0.00127/0.00050 MIN.
 - (228) SELECT GOLD: 0.00076/0.00030 MIN,
 - * SELECT TIN: 0.00254/0.00100 MIN,
 - OVERALL NICKEL UNDERPLATE: 0.00127/0.00050 MIN.
 - (505) OVERALL GOLD: 0.00127/0.00050 MIN OVER 0.00127/0.00050 MIN NICKEL.
 - (909) OVERALL TIN: 0.00254/0.00100 MIN.

*THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO ROHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2002/53/EC". CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD PLATING.

- PRODUCT SPECIFICATION: PS-08-50
- PACKAGING: SEE CHARTS
- FOR TOP ENTRY AND RIGHT ANGLE ASSEMBLIES WITH LOWER INSERTION FORCE USE SINGLE BEAM CONTACT. (TERMINAL NO. 4244)
- SOLDERABILITY: WHEN PARTS ARE SOLDERED AT A TEMPERATURE OF 230°C OR 446°F FOR 5 SECONDS EACH SOLDERED SURFACE SHALL BE A MINIMUM OF 95% COVERED WITH A SMOOTH CONTINUOUS ADHERENT COATING. FOR ADDITIONAL INFORMATION SEE ES-152.
- PARTS ARE STACKABLE END TO END ON (3.96)±.156
- THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPEC PS-45499-002.

GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		mm	INCH	DRAWN BY	DATE		
4 PLACES	± ---	± ---		SAMIEC	01/28/87	KK 156 HOUSING PCB 41815 SERIES	
3 PLACES	± ---	± .010		CHECKED BY	DATE		
2 PLACES	± ---	± .015		SAMIEC	01/28/87		
1 PLACE	± ---	± ---		APPROVED BY	DATE		
ANGULAR ±1/2°				LENZ	01/28/87	molex MOLEX INCORPORATED	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		DOCUMENT NO.		SDA-41815	
SIZE B		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				SHEET NO. 1 OF 11	



KK 156 PCB ASSY 2-15 CKT

41815 SERIES

	Assy. Proc:	RIGHT ANGLE	Assy. Proc:	RIGHT ANGLE	Assy. Proc:	BOTTOM ENTRY	Assy. Proc:	BOTTOM ENTRY
	Housing No:	41815-N-AN	Housing No:	41815-N-AN	Housing No:	41815-N-AN	Housing No:	41815-N-AN
	Options	WITH RAMP	Options	WITH RAMP	Options	WITH RAMP	Options	WITH RAMP
	Terminal No:	2144-BA-A1AA-102B	Terminal No:	2144-BA-A1AA-208B	Terminal No:	6298-1-102	Terminal No:	6298-1-208
	Term Matl:	PHOS BRONZE	Term Matl:	PHOS BRONZE	Term Matl:	PHOS BRONZE	Term Matl:	PHOS BRONZE
	Plating:	102 TIN	Plating:	208 – 15 GOLD	Plating:	102 – TIN	Plating:	208 – 15 GOLD
	Dim C:	(3.68) / .145	Dim C:	(3.68) / .145	Dim C:	(3.18)/. 125	Dim C:	(3.18)/. 125
	Voids:	NONE	Voids:	NONE	Voids:	NONE	Voids:	NONE
	Hooks Cut:	NO	Hooks Cut:	NO	Hooks Cut:	NO	Hooks Cut:	NO
	Packaging:	PK-41815-001 TRAY	Packaging:	PK-41815-001 TRAY	Packaging:	PK-41815-001 TRAY	Packaging:	PK-41815-001 TRAY
Ckts	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number
2	09-48-1024	A-41815-0002	09-48-5024	A-41815-0016	09-48-4029	A-41815-0030	09-48-5026	A-41815-0044
3	09-48-1034	A-41815-0003	09-48-5034	A-41815-0017	09-48-4039	A-41815-0031	09-48-5036	A-41815-0045
4	09-48-1044	A-41815-0004	09-48-5044	A-41815-0018	09-48-4049	A-41815-0032	09-48-5046	A-41815-0046
5	09-48-1054	A-41815-0005	09-48-5054	A-41815-0019	09-48-4059	A-41815-0033	09-48-5056	A-41815-0047
6	09-48-1064	A-41815-0006	09-48-5064	A-41815-0020	09-48-4069	A-41815-0034	09-48-5066	A-41815-0048
7	09-48-1074	A-41815-0007	09-48-5074	A-41815-0021	09-48-4079	A-41815-0035	09-48-5076	A-41815-0049
8	09-48-1084	A-41815-0008	09-48-5084	A-41815-0022	09-48-4089	A-41815-0036	09-48-5086	A-41815-0050
9	09-48-1094	A-41815-0009	09-48-5094	A-41815-0023	09-48-4099	A-41815-0037	09-48-5096	A-41815-0051
10	09-48-1104	A-41815-0010	09-48-5104	A-41815-0024	09-48-4109	A-41815-0038	09-48-5106	A-41815-0052
11	09-48-1114	A-41815-0011	09-48-5114	A-41815-0025	09-48-4119	A-41815-0039	09-48-5116	A-41815-0053
12	09-48-1124	A-41815-0012	09-48-5124	A-41815-0026	09-48-4129	A-41815-0040	09-48-5126	A-41815-0054
13	09-48-1134	A-41815-0013	09-48-5134	A-41815-0027	09-48-4139	A-41815-0041	09-48-5136	A-41815-0055
14	09-48-1144	A-41815-0014	09-48-5144	A-41815-0028	09-48-4149	A-41815-0042	09-48-5146	A-41815-0056
15	09-48-1154	A-41815-0015	09-48-5154	A-41815-0029	09-48-4159	A-41815-0043	09-48-5156	A-41815-0057

REV: AL6	ECR/ECN INFORMATION:		TITLE: KK 156 HOUSING ASSY PCB 41815 SERIES DWG	SHEET No. - 2 -
	EC NO.	UCP2009-0167		
	DATE:	10/30/2008		
DOCUMENT NUMBER: SDA-41815			CREATED / REVISED BY: MKIPPER	CHECKED BY: JBELL
			APPROVED BY: FSMITH	

TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC



KK 156 PCB ASSY 2-15 CKT

41815 SERIES

Assy. Proc:	TOP ENTRY
Housing No:	41815-N-AN
Options	WITH RAMP
Terminal No:	2144-BA-A1AA-102B
Term Matl:	PHOS BRONZE
Plating:	102 – TIN
Dim C:	(3.05) / .120
Voids:	NONE
Hooks Cut:	NO
Packaging:	PK-41815-001 TRAY

Assy. Proc:	TOP ENTRY
Housing No:	41815-N-AN
Options	WITH RAMP
Terminal No:	2144-BA-A1AA-208B
Term Matl:	PHOS BRONZE
Plating:	208 – 15 GOLD
Dim C:	(3.05) / .120
Voids:	NONE
Hooks Cut:	NO
Packaging:	PK-41815-001 TRAY

Ckts	Material No	Engineer Number
2	09-48-4028	A-41815-0058
3	09-48-4038	A-41815-0059
4	09-48-4048	A-41815-0060
5	09-48-4058	A-41815-0061
6	09-48-4068	A-41815-0062
7	09-48-4078	A-41815-0063
8	09-48-4088	A-41815-0064
9	09-48-4098	A-41815-0065
10	09-48-4108	A-41815-0066
11	09-48-4118	A-41815-0067
12	09-48-4128	A-41815-0068
13	09-48-4138	A-41815-0069
14	09-48-4148	A-41815-0070
15	09-48-4158	A-41815-0071

Material No	Engineer Number
09-48-5025	A-41815-0072
09-48-5035	A-41815-0073
09-48-5045	A-41815-0074
09-48-5055	A-41815-0075
09-48-5065	A-41815-0076
09-48-5075	A-41815-0077
09-48-5085	A-41815-0078
09-48-5095	A-41815-0079
09-48-5105	A-41815-0080
09-48-5115	A-41815-0081
09-48-5125	A-41815-0082
09-48-5135	A-41815-0083
09-48-5145	A-41815-0084
09-48-5155	A-41815-0085

REV: AL6	ECR/ECN INFORMATION:		TITLE: KK 156 HOUSING ASSY PCB 41815 SERIES DWG	SHEET No. - 3 -
	EC NO.	UCP2009-0167		
	DATE:	10/30/2008		
DOCUMENT NUMBER: SDA-41815			CREATED / REVISED BY: MKIPPER	CHECKED BY: JBELL
			APPROVED BY: FSMITH	



KK 156 PCB ASSY 2-15 CKT

41815 SERIES

Assy. Proc: BOTTOM ENTRY			Assy. Proc: TOP ENTRY			Assy. Proc: RIGHT ANGLE			Assy. Proc: BOTTOM ENTRY		
Housing No: 41815-N-AN			Housing No: 41815-N-AN			Housing No: 41815-N-AN			Housing No: 41815-N-AN		
Options WITH RAMP			Options WITH RAMP			Options WITH RAMP			Options WITH RAMP		
Terminal No: 2188-1-P909			Terminal No: 2144-AA-A1AA-P909B			Terminal No: 2144-AA-A1AA-122B			Terminal No: 2188-1-102		
Term Matl: BRASS			Term Matl: BRASS			Term Matl: BRASS			Term Matl: BRASS		
Plating: P909 – TIN			Plating: P909 – TIN			Plating: 122 – TIN			Plating: 102 – TIN		
Dim C: (3.18) / .125			Dim C: (3.05) / .120			Dim C: (3.68) / .145			Dim C: (3.18) / .125		
Voids: NONE			Voids: NONE			Voids: NONE			Voids: NONE		
Hooks Cut: NO			Hooks Cut: YES			Hooks Cut: NO			Hooks Cut: NO		
Packaging: PK-41815-001 TRAY			Packaging: PK-41815-001 TRAY			Packaging: PK-41815-001 TRAY			Packaging: PK-41815-001 TRAY		
Ckts	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	
2	09-48-2022	A-41815-0100	09-48-2025	A-41815-0114	41815-0128	A-41815-0128	41815-0128	A-41815-0128	09-48-4022	A-41815-0142	
3	09-48-2032	A-41815-0101	09-48-2035	A-41815-0115	41815-0129	A-41815-0129	41815-0129	A-41815-0129	09-48-4032	A-41815-0143	
4	09-48-2042	A-41815-0102	09-48-2045	A-41815-0116	41815-0130	A-41815-0130	41815-0130	A-41815-0130	09-48-4042	A-41815-0144	
5	09-48-2052	A-41815-0103	09-48-2055	A-41815-0117	41815-0131	A-41815-0131	41815-0131	A-41815-0131	09-48-4052	A-41815-0145	
6	09-48-2062	A-41815-0104	09-48-2065	A-41815-0118	41815-0132	A-41815-0132	41815-0132	A-41815-0132	09-48-4062	A-41815-0146	
7	09-48-2072	A-41815-0105	09-48-2075	A-41815-0119	41815-0133	A-41815-0133	41815-0133	A-41815-0133	09-48-4072	A-41815-0147	
8	09-48-2082	A-41815-0106	09-48-2085	A-41815-0120	41815-0134	A-41815-0134	41815-0134	A-41815-0134	09-48-4082	A-41815-0148	
9	09-48-2092	A-41815-0107	09-48-2095	A-41815-0121	41815-0135	A-41815-0135	41815-0135	A-41815-0135	09-48-4092	A-41815-0149	
10	09-48-2102	A-41815-0108	09-48-2105	A-41815-0122	41815-0136	A-41815-0136	41815-0136	A-41815-0136	09-48-4102	A-41815-0150	
11	09-48-2112	A-41815-0109	09-48-2115	A-41815-0123	41815-0137	A-41815-0137	41815-0137	A-41815-0137	09-48-4112	A-41815-0151	
12	09-48-2122	A-41815-0110	09-48-2125	A-41815-0124	09-48-1122	A-41815-0138	09-48-1122	A-41815-0138	09-48-4122	A-41815-0152	
13	09-48-2132	A-41815-0111	09-48-2135	A-41815-0125	41815-0139	A-41815-0139	41815-0139	A-41815-0139	09-48-4132	A-41815-0153	
14	09-48-2142	A-41815-0112	09-48-2145	A-41815-0126	41815-0140	A-41815-0140	41815-0140	A-41815-0140	09-48-4142	A-41815-0154	
15	09-48-2152	A-41815-0113	09-48-2155	A-41815-0127	41815-0141	A-41815-0141	41815-0141	A-41815-0141	09-48-4152	A-41815-0155	

REV: AL6	ECR/ECN INFORMATION:		<u>TITLE:</u> KK 156 HOUSING ASSY PCB 41815 SERIES DWG	<u>SHEET No.</u> - 4 -	
	EC NO.	UCP2009-0167			
	DATE:	10/30/2008			
<u>DOCUMENT NUMBER:</u> SDA-41815			<u>CREATED / REVISED BY:</u> MKIPPER	<u>CHECKED BY:</u> JBELL	<u>APPROVED BY:</u> FSMITH



KK 156 PCB ASSY 2-15 CKT

41815 SERIES

	Assy. Proc:		Assy. Proc:	BOTTOM ENTRY	Assy. Proc:	BOTTOM ENTRY	Assy. Proc:	RIGHT ANGLE
	Housing No:		Housing No:	41815-N-AN	Housing No:	41815-N-AN	Housing No:	41815-N-AN
	Options		Options	WITH RAMP	Options	WITH RAMP	Options	WITH RAMP
	Terminal No:		Terminal No:	6298-1-102	Terminal No:	2188-1-228	Terminal No:	2144-AA-A1AA-P909B
	Term Matl:		Term Matl:	PHOS BRONZE	Term Matl:	BRASS	Term Matl:	BRASS
	Plating:		Plating:	102 – TIN	Plating:	228 – GOLD	Plating:	P909 – TIN
	Dim C:		Dim C:	(4.60) / .160	Dim C:	(3.18) / .125	Dim C:	(3.68) / .145
	Void:		Void:	NONE	Void:	NONE	Void:	NONE
	Hooks Cut:		Hooks Cut:	NO	Hooks Cut:	NO	Hooks Cut:	NO
	Packaging:		Packaging:	PK-41815-001 TRAY	Packaging:	PK-41815-001 TRAY	Packaging:	PK-41815-001 TRAY
Ckts	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number
2			09-48-4021	A-41815-0170	41815-0184	A-41815-0184	09-48-2021	A-41815-0198
3			09-48-4031	A-41815-0171	09-48-5030	A-41815-0185	09-48-2031	A-41815-0199
4			09-48-4041	A-41815-0172	09-48-5040	A-41815-0186	09-48-2041	A-41815-0200
5			09-48-4051	A-41815-0173	09-48-5050	A-41815-0187	09-48-2051	A-41815-0201
6			09-48-4061	A-41815-0174	41815-0188	A-41815-0188	09-48-2061	A-41815-0202
7			09-48-4071	A-41815-0175	41815-0189	A-41815-0189	09-48-2071	A-41815-0203
8			09-48-4081	A-41815-0176	09-48-5090	A-41815-0190	09-48-2081	A-41815-0204
9			09-48-4091	A-41815-0177	41815-0191	A-41815-0191	09-48-2091	A-41815-0205
10			09-48-4101	A-41815-0178	09-48-5100	A-41815-0192	09-48-2101	A-41815-0206
11			09-48-4111	A-41815-0179	41815-0193	A-41815-0193	09-48-2111	A-41815-0207
12			09-48-4121	A-41815-0180	41815-0194	A-41815-0194	09-48-2121	A-41815-0208
13			09-48-4131	A-41815-0181	41815-0195	A-41815-0195	09-48-2131	A-41815-0209
14			09-48-4141	A-41815-0182	41815-0196	A-41815-0196	09-48-2141	A-41815-0210
15			09-48-4151	A-41815-0183	41815-0197	A-41815-0197	09-48-2151	A-41815-0211

REV: AL6	ECR/ECN INFORMATION:		TITLE: KK 156 HOUSING ASSY PCB 41815 SERIES DWG	SHEET No. - 5 -
	EC NO.	UCP2009-0167		
	DATE:	10/30/2008		
DOCUMENT NUMBER: SDA-41815			CREATED / REVISED BY: MKIPPER	CHECKED BY: JBELL
			APPROVED BY: FSMITH	



KK 156 PCB ASSY 2-15 CKT

41815 SERIES

	Assy. Proc:	RIGHT ANGLE	Assy. Proc:	BOTTOM ENTRY	Assy. Proc:	RIGHT ANGLE	Assy. Proc:	TOP ENTRY
	Housing No:	41815-N-AN	Housing No:	41815-N-DN	Housing No:	41815-N-AN	Housing No:	41815-N-DN
	Options	WITH RAMP	Options	NO RAMPS	Options	WITH RAMP	Options	NO RAMPS
	Terminal No:	2144-AA-A1AA-228B	Terminal No:	2188-P909	Terminal No:	2144-AA-A1AA-505B	Terminal No:	2144-AA-A1AA-P909B
	Term Matl:	BRASS	Term Matl:	BRASS	Term Matl:	BRASS	Term Matl:	BRASS
	Plating:	228 – GOLD	Plating:	P909 – TIN	Plating:	505 – GOLD	Plating:	P909 – TIN
	Dim C:	(3.68) / .145	Dim C:	(4.06) / .160	Dim C:	(3.68) / .145	Dim C:	(3.05) / .120
	Voids:	NONE	Voids:	NONE	Voids:	NONE	Voids:	NONE
	Hooks Cut:	NO	Hooks Cut:	YES	Hooks Cut:	NO	Hooks Cut:	NO
	Packaging:	PK-41815-001 TRAY	Packaging:	PK-41815-001 TRAY	Packaging:	PK-41815-001 TRAY	Packaging:	PK-41815-001 TRAY
Ckts	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number
2	09-48-5023	A-41815-0313	41815-0327	A-41815-0327	41815-0341	A-41815-0341	41815-0355	A-41815-0355
3	09-48-5033	A-41815-0314	41815-0328	A-41815-0328	09-48-3037	A-41815-0342	41815-0356	A-41815-0356
4	09-48-5043	A-41815-0315	41815-0329	A-41815-0329	41815-0343	A-41815-0343	09-48-2047	A-41815-0357
5	09-48-5053	A-41815-0316	09-48-2056	A-41815-0330	41815-0344	A-41815-0344	41815-0358	A-41815-0358
6	09-48-5063	A-41815-0317	41815-0331	A-41815-0331	41815-0345	A-41815-0345	41815-0359	A-41815-0359
7	09-48-5073	A-41815-0318	41815-0332	A-41815-0332	41815-0346	A-41815-0346	41815-0360	A-41815-0360
8	09-48-5083	A-41815-0319	09-48-2086	A-41815-0333	41815-0347	A-41815-0347	41815-0361	A-41815-0361
9	09-48-5093	A-41815-0320	41815-0334	A-41815-0334	41815-0348	A-41815-0348	41815-0362	A-41815-0362
10	09-48-5103	A-41815-0321	09-48-2106	A-41815-0335	41815-0349	A-41815-0349	09-48-2107	A-41815-0363
11	09-48-5113	A-41815-0322	41815-0336	A-41815-0336	41815-0350	A-41815-0350	41815-0364	A-41815-0364
12	09-48-5123	A-41815-0323	41815-0337	A-41815-0337	41815-0351	A-41815-0351	41815-0365	A-41815-0365
13	09-48-5133	A-41815-0324	41815-0338	A-41815-0338	41815-0352	A-41815-0352	41815-0366	A-41815-0366
14	09-48-5143	A-41815-0325	41815-0339	A-41815-0339	41815-0353	A-41815-0353	41815-0367	A-41815-0367
15	09-48-5153	A-41815-0326	41815-0340	A-41815-0340	41815-0354	A-41815-0354	41815-0368	A-41815-0368

REV: AL6	ECR/ECN INFORMATION:		TITLE: KK 156 HOUSING ASSY PCB 41815 SERIES DWG	SHEET No. - 6 -
	EC NO.	UCP2009-0167		
	DATE:	10/30/2008		
DOCUMENT NUMBER: SDA-41815			CREATED / REVISED BY: MKIPPER	CHECKED BY: JBELL
			APPROVED BY: FSMITH	

TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC



KK 156 PCB ASSY 2-15 CKT

41815 SERIES

Assy. Proc: RIGHT ANGLE			Assy. Proc: BOTTOM ENTRY			Assy. Proc: RIGHT ANGLE			Assy. Proc: BOTTOM ENTRY		
Housing No: 41815-N-AN			Housing No: 41815-N-AN			Housing No: 41815-N-AN			Housing No: 41815-N-AN		
Options WITH RAMP			Options WITH RAMP			Options WITH RAMP			Options WITH RAMP		
Terminal No: 4244-A-102A			Terminal No: 2188-1-122			Terminal No: 2144-AA-A1AA-208B			Terminal No: 2188-1-208		
Term Matl: PHOS BRONZE			Term Matl: BRASS			Term Matl: BRASS			Term Matl: BRASS		
Plating: 102 – TIN			Plating: TIN – 122			Plating: 208 – 15 GOLD			Plating: 208 – 15 GOLD		
Dim C: (3.68) / .145			Dim C: (3.18) / .125			Dim C: (3.68) / .145			Dim C: (3.18) / .125		
Voids: NONE			Voids: NONE			Voids: NONE			Voids: NONE		
Hooks Cut: NO			Hooks Cut: NO			Hooks Cut: NO			Hooks Cut: NO		
Packaging: PK-41815-001 TRAY			Packaging: PK-41815-001 TRAY			Packaging: PK-41815-001 TRAY			Packaging: PK-41815-001 TRAY		
Ckts	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	
2	09-48-1023	A-41815-0369	09-48-4025	A-41815-0383	09-48-3025	A-41815-0425	09-48-3024	A-41815-0439	09-48-3024	A-41815-0439	
3	09-48-1033	A-41815-0370	09-48-4035	A-41815-0384	09-48-3035	A-41815-0426	09-48-3034	A-41815-0440	09-48-3034	A-41815-0440	
4	09-48-1043	A-41815-0371	09-48-4045	A-41815-0385	09-48-3045	A-41815-0427	09-48-3044	A-41815-0441	09-48-3044	A-41815-0441	
5	09-48-1053	A-41815-0372	09-48-4055	A-41815-0386	09-48-3055	A-41815-0428	09-48-3054	A-41815-0442	09-48-3054	A-41815-0442	
6	09-48-1063	A-41815-0373	09-48-4065	A-41815-0387	09-48-3065	A-41815-0429	09-48-3064	A-41815-0443	09-48-3064	A-41815-0443	
7	09-48-1073	A-41815-0374	09-48-4075	A-41815-0388	09-48-3075	A-41815-0430	09-48-3074	A-41815-0444	09-48-3074	A-41815-0444	
8	09-48-1083	A-41815-0375	09-48-4085	A-41815-0389	09-48-3085	A-41815-0431	09-48-3084	A-41815-0445	09-48-3084	A-41815-0445	
9	09-48-1093	A-41815-0376	09-48-4095	A-41815-0390	09-48-3095	A-41815-0432	09-48-3094	A-41815-0446	09-48-3094	A-41815-0446	
10	09-48-1103	A-41815-0377	09-48-4105	A-41815-0391	09-48-3105	A-41815-0433	09-48-3104	A-41815-0447	09-48-3104	A-41815-0447	
11	09-48-1113	A-41815-0378	09-48-4115	A-41815-0392	09-48-3115	A-41815-0434	09-48-3114	A-41815-0448	09-48-3114	A-41815-0448	
12	09-48-1123	A-41815-0379	09-48-4125	A-41815-0393	09-48-3125	A-41815-0435	09-48-3124	A-41815-0449	09-48-3124	A-41815-0449	
13	09-48-1133	A-41815-0380	09-48-4135	A-41815-0394	09-48-3135	A-41815-0436	09-48-3134	A-41815-0450	09-48-3134	A-41815-0450	
14	09-48-1143	A-41815-0381	09-48-4145	A-41815-0395	09-48-3145	A-41815-0437	09-48-3144	A-41815-0451	09-48-3144	A-41815-0451	
15	09-48-1153	A-41815-0382	09-48-4155	A-41815-0396	09-48-3155	A-41815-0438	09-48-3154	A-41815-0452	09-48-3154	A-41815-0452	

REV: AL6	ECR/ECN INFORMATION:		<u>TITLE:</u> KK 156 HOUSING ASSY PCB 41815 SERIES DWG	<u>SHEET No.</u> - 7 -	
	EC NO.	UCP2009-0167			
	DATE:	10/30/2008			
<u>DOCUMENT NUMBER:</u> SDA-41815			<u>CREATED / REVISED BY:</u> MKIPPER	<u>CHECKED BY:</u> JBELL	<u>APPROVED BY:</u> FSMITH



KK 156 PCB ASSY 2-15 CKT

41815 SERIES

Assy. Proc: TOP ENTRY			Assy. Proc: TOP ENTRY			Assy. Proc: RIGHT ANGLE			Assy. Proc: BOTTOM ENTRY		
Housing No: 41815-N-AN			Housing No: 41815-N-AN			Housing No: 41815-N-AN			Housing No: 41815-N-AN		
Options WITH RAMP			Options WITH RAMP			Options WITH RAMP			Options WITH RAMP		
Terminal No: 2144-AA-A1AA-P909B			Terminal No: 2144-AA-A1AA-208B			Terminal No: 2144-BA-A1AA-P909B			Terminal No: 6298-1-P909		
Term Matl: BRASS			Term Matl: BRASS			Term Matl: PHOS BRONZE			Term Matl: PHOS BRONZE		
Plating: P909 – TIN			Plating: 208 – 15 GOLD			Plating: P909 – TIN			Plating: P909 – TIN		
Dim C: (3.05) / .120			Dim C: (3.05) / .120			Dim C: (3.68) / .145			Dim C: (3.18) / .125		
Voids: NONE			Voids: NONE			Voids: NONE			Voids: NONE		
Hooks Cut: NO			Hooks Cut: NO			Hooks Cut: NO			Hooks Cut: NO		
Packaging: PK-41815-001 TRAY			Packaging: PK-41815-001 TRAY			Packaging: PK-41815-001 TRAY			Packaging: PK-41815-001 TRAY		
Ckts	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	
2	09-48-2023	A-41815-0453	09-48-3026	A-41815-0467	09-48-2020	A-41815-0481	09-48-2029	A-41815-0495	09-48-2029	A-41815-0495	
3	09-48-2033	A-41815-0454	09-48-3036	A-41815-0468	09-48-2030	A-41815-0482	09-48-2039	A-41815-0496	09-48-2039	A-41815-0496	
4	09-48-2043	A-41815-0455	09-48-3046	A-41815-0469	09-48-2040	A-41815-0483	09-48-2049	A-41815-0497	09-48-2049	A-41815-0497	
5	09-48-2053	A-41815-0456	09-48-3056	A-41815-0470	09-48-2050	A-41815-0484	09-48-2059	A-41815-0498	09-48-2059	A-41815-0498	
6	09-48-2063	A-41815-0457	09-48-3066	A-41815-0471	09-48-2060	A-41815-0485	09-48-2069	A-41815-0499	09-48-2069	A-41815-0499	
7	09-48-2073	A-41815-0458	09-48-3076	A-41815-0472	09-48-2070	A-41815-0486	09-48-2079	A-41815-0500	09-48-2079	A-41815-0500	
8	09-48-2083	A-41815-0459	09-48-3086	A-41815-0473	09-48-2080	A-41815-0487	09-48-2089	A-41815-0501	09-48-2089	A-41815-0501	
9	09-48-2093	A-41815-0460	09-48-3096	A-41815-0474	09-48-2090	A-41815-0488	09-48-2099	A-41815-0502	09-48-2099	A-41815-0502	
10	09-48-2103	A-41815-0461	09-48-3106	A-41815-0475	09-48-2100	A-41815-0489	09-48-2109	A-41815-0503	09-48-2109	A-41815-0503	
11	09-48-2113	A-41815-0462	09-48-3116	A-41815-0476	09-48-2110	A-41815-0490	09-48-2119	A-41815-0504	09-48-2119	A-41815-0504	
12	09-48-2123	A-41815-0463	09-48-3126	A-41815-0477	09-48-2120	A-41815-0491	09-48-2129	A-41815-0505	09-48-2129	A-41815-0505	
13	09-48-2133	A-41815-0464	09-48-3136	A-41815-0478	09-48-2130	A-41815-0492	09-48-2139	A-41815-0506	09-48-2139	A-41815-0506	
14	09-48-2143	A-41815-0465	09-48-3146	A-41815-0479	09-48-2140	A-41815-0493	09-48-2149	A-41815-0507	09-48-2149	A-41815-0507	
15	09-48-2153	A-41815-0466	09-48-3156	A-41815-0480	09-48-2150	A-41815-0494	09-48-2159	A-41815-0508	09-48-2159	A-41815-0508	

REV: AL6	ECR/ECN INFORMATION:		<u>TITLE:</u> KK 156 HOUSING ASSY PCB 41815 SERIES DWG	<u>SHEET No.</u> - 8 -	
	EC NO.	UCP2009-0167			
	DATE:	10/30/2008			
<u>DOCUMENT NUMBER:</u> SDA-41815			<u>CREATED / REVISED BY:</u> MKIPPER	<u>CHECKED BY:</u> JBELL	<u>APPROVED BY:</u> FSMITH



KK 156 PCB ASSY 2-15 CKT

41815 SERIES

Assy. Proc: TOP ENTRY			Assy. Proc: TOP ENTRY			Assy. Proc: TOP ENTRY			Assy. Proc: BOTTOM ENTRY		
Housing No: 41815-N-AN			Housing No: 41815-N-AN			Housing No: 41815-N-AN			Housing No: 41815-N-AN		
Options WITH RAMP			Options WITH RAMP			Options WITH RAMP			Options WITH RAMP		
Terminal No: 2144-BA-A1AA-P909B			Terminal No: 2144-BA-A1AA-102B			Terminal No: 2144-BA-A1AA-208B			Terminal No: 2188-1-208		
Term Matl: PHOS BRONZE			Term Matl: PHOS BRONZE			Term Matl: PHOS BRONZE			Term Matl: BRASS		
Plating: P909 – TIN			Plating: 102 – TIN			Plating: 208 – 15 GOLD			Plating: 208 – 15 GOLD		
Dim C: (3.05) / .120			Dim C: (3.05) / .120			Dim C: (3.05) / .120			Dim C: (3.18) / .125		
Voids: NONE			Voids: NONE			Voids: NONE			Voids: TERMINAL VOID 2		
Hooks Cut: NO			Hooks Cut: YES			Hooks Cut: YES			Hooks Cut: NO		
Packaging: PK-41815-001 TRAY			Packaging: PK-41815-001 TRAY			Packaging: PK-41815-001 TRAY			Packaging: PK-41815-001 TRAY		
Ckts	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	
2	09-48-2028	A-41815-0509	09-48-5028	A-41815-0523	09-48-1025	A-41815-0537					
3	09-48-2038	A-41815-0510	09-48-5038	A-41815-0524	09-48-1035	A-41815-0538	41815-0551	41815-0551			
4	09-48-2048	A-41815-0511	09-48-5048	A-41815-0525	09-48-1045	A-41815-0539	41815-0552	41815-0552			
5	09-48-2058	A-41815-0512	09-48-5058	A-41815-0526	09-48-1055	A-41815-0540	41815-0553	41815-0553			
6	09-48-2068	A-41815-0513	09-48-5068	A-41815-0527	09-48-1065	A-41815-0541	41815-0554	41815-0554			
7	09-48-2078	A-41815-0514	09-48-5078	A-41815-0528	09-48-1075	A-41815-0542	41815-0555	41815-0555			
8	09-48-2088	A-41815-0515	09-48-5088	A-41815-0529	09-48-1085	A-41815-0543	41815-0556	41815-0556			
9	09-48-2098	A-41815-0516	09-48-5098	A-41815-0530	09-48-1095	A-41815-0544	41815-0557	41815-0557			
10	09-48-2108	A-41815-0517	09-48-5108	A-41815-0531	09-48-1105	A-41815-0545	41815-0558	41815-0558			
11	09-48-2118	A-41815-0518	09-48-5118	A-41815-0532	09-48-1115	A-41815-0546	41815-0559	41815-0559			
12	09-48-2128	A-41815-0519	09-48-5128	A-41815-0533	09-48-1125	A-41815-0547	41815-0560	41815-0560			
13	09-48-2138	A-41815-0520	09-48-5138	A-41815-0534	09-48-1135	A-41815-0548	41815-0561	41815-0561			
14	09-48-2148	A-41815-0521	09-48-5148	A-41815-0535	09-48-1145	A-41815-0549	41815-0562	41815-0562			
15	09-48-2158	A-41815-0522	09-48-5158	A-41815-0536	09-48-1155	A-41815-0550	41815-0563	41815-0563			

REV: AL6	ECR/ECN INFORMATION:		<u>TITLE:</u> KK 156 HOUSING ASSY PCB 41815 SERIES DWG	<u>SHEET No.</u> - 9 -	
	EC NO.	UCP2009-0167			
	DATE:	10/30/2008			
<u>DOCUMENT NUMBER:</u> SDA-41815			<u>CREATED / REVISED BY:</u> MKIPPER	<u>CHECKED BY:</u> JBELL	<u>APPROVED BY:</u> FSMITH
TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC					



KK 156 PCB ASSY 2-15 CKT

41815 SERIES

	Assy. Proc:	BOTTOM ENTRY	Assy. Proc:	BOTTOM ENTRY	Assy. Proc:	RIGHT ANGLE	Assy. Proc:	TOP ENTRY
	Housing No:	41815-N-DN	Housing No:	41815-N-DN	Housing No:	41815-N-A15-7	Housing No:	41815-N-DN
	Options	WITHOUT RAMPS	Options	WITHOUT RAMPS	Options	WITH RAMP	Options	WITHOUT RAMP
	Terminal No:	6298-1-102	Terminal No:	6298-1-102	Terminal No:	2144-BA-A1AA-102B	Terminal No:	2144-BA-A1AA-102B
	Term Matl:	PHOS BRONZE	Term Matl:	PHOS BRONZE	Term Matl:	PHOS BRONZE	Term Matl:	PHOS BRONZE
	Plating:	102	Plating:	102	Plating:	102 TIN	Plating:	102 TIN
	Dim C:	3.18 / .125	Dim C:	3.18 / .125	Dim C:	(3.68) / .145	Dim C:	(3.05)/.120
	Voids:	NONE	Voids:	TERMINAL VOID 2	Voids:	TERMINAL VOID 7	Voids:	NONE
	Hooks Cut:	NO	Hooks Cut:	NO	Hooks Cut:	NO	Hooks Cut:	YES
	Packaging:	PK-41815-001 TRAY	Packaging:	PK-41815-001 TRAY	Packaging:	PK-41815-001 TRAY	Packaging:	PK-41815-001 TRAY
Ckts	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number
2	41815-0564	A-41815-0564					41815-0601	A-41815-0601
3	41815-0565	A-41815-0565	41815-0579	A-41815-0579			41815-0602	A-41815-0602
4	41815-0566	A-41815-0566	41815-0580	A-41815-0580				
5	41815-0567	A-41815-0567	41815-0581	A-41815-0581				
6	41815-0568	A-41815-0568	41815-0582	A-41815-0582			41815-0605	A-41815-0605
7	41815-0569	A-41815-0569	41815-0583	A-41815-0583				
8	41815-0570	A-41815-0570	41815-0584	A-41815-0584				
9	41815-0571	A-41815-0571	41815-0585	A-41815-0585				
10	41815-0572	A-41815-0572	41815-0586	A-41815-0586				
11	41815-0573	A-41815-0573	41815-0587	A-41815-0587				
12	41815-0574	A-41815-0574	41815-0588	A-41815-0588				
13	41815-0575	A-41815-0575	41815-0589	A-41815-0589				
14	41815-0576	A-41815-0576	41815-0590	A-41815-0590				
15	41815-0577	A-41815-0577	41815-0591	A-41815-0591	41815-0600	A-41815-0600		

REV: AL6	ECR/ECN INFORMATION:		TITLE: KK 156 HOUSING ASSY PCB 41815 SERIES DWG	SHEET No. - 10 -
	EC NO.	UCP2009-0167		
	DATE:	10/30/2008		
DOCUMENT NUMBER: SDA-41815			CREATED / REVISED BY: MKIPPER	CHECKED BY: JBELL
			APPROVED BY: FSMITH	



KK 156 PCB ASSY 2-15 CKT

41815 SERIES

Assy. Proc:	RIGHT ANGLE
Housing No:	41815-N-DN
Options	WITHOUT RAMP
Terminal No:	2144-BA-A1AA-102B
Term Matl:	PHOS BRONZE
Plating:	102 TIN
Dim C:	(3.68) / .145
Voids:	NONE
Hooks Cut:	NO
Packaging:	PK-41815-001 TRAY

Assy. Proc:	TOP ENTRY
Housing No:	41815-N-DN
Options	WITHOUT RAMP
Terminal No:	2144-AA-A1AA-P909B
Term Matl:	BRASS
Plating:	P909 – TIN
Dim C:	(3.05) / .120
Voids:	NONE
Hooks Cut:	YES
Packaging:	PK-41815-001 TRAY

Ckts	Material No	Engineer Number
2	41815-0630	A-41815-0630
3	41815-0631	A-41815-0631
4	41815-0632	A-41815-0632
5	41815-0633	A-41815-0633
6	41815-0634	A-41815-0634
7	41815-0635	A-41815-0635
8	41815-0636	A-41815-0636
9	41815-0637	A-41815-0637
10	41815-0638	A-41815-0638
11	41815-0639	A-41815-0639
12	41815-0640	A-41815-0640
13	41815-0641	A-41815-0641
14	41815-0642	A-41815-0642
15	41815-0643	A-41815-0643

Material No	Engineer Number
41815-0646	A-41815-0646

REV: AL6	ECR/ECN INFORMATION:		TITLE: KK 156 HOUSING ASSY PCB 41815 SERIES DWG	SHEET No. - 11 -
	EC NO.	UCP2009-0167		
	DATE:	10/30/2008		
DOCUMENT NUMBER: SDA-41815			CREATED / REVISED BY: MKIPPER	CHECKED BY: JBELL
			APPROVED BY: FSMITH	