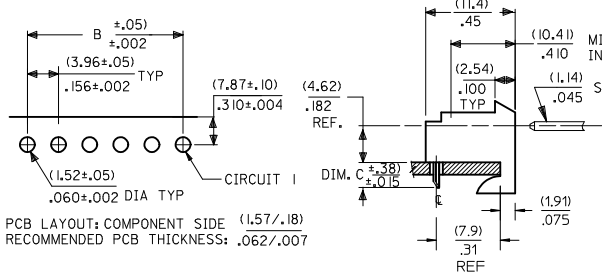


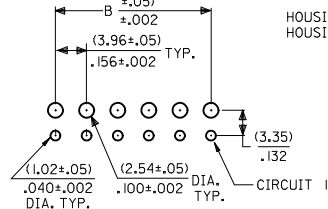
RIGHT ANGLE

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



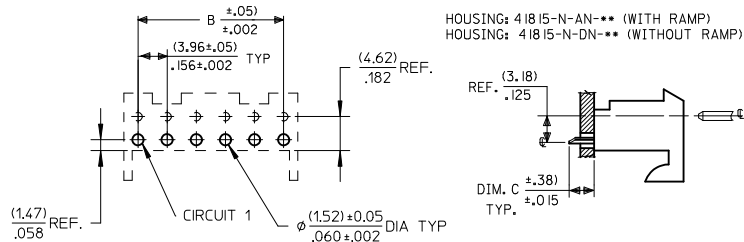
PCB LAYOUT: COMPONENT SIDE (1.57/.18)
RECOMMENDED PCB THICKNESS: .062/.007

BOTTOM ENTRY



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

TOP ENTRY



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

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

NOTES:

1. MATERIAL: HOUSING: POLYESTER, RATED UL 94V-0, COLOR: NATURAL (WHITE)

2. FINISH:

- (102) = OVERALL TIN: 0.00508/.000200 MIN OVER 0.00254/.000100 MIN COPPER.
(208) = SELECT GOLD: 0.00038/.000015 MIN.
SELECT TIN: 0.00254/.000100 MIN.
OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.
(228) = SELECT GOLD: 0.00076/.000030 MIN.
SELECT TIN: 0.00254/.000100 MIN.
OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.
(505) = OVERALL GOLD: 0.00127/.000050 MIN OVER 0.00127/.000050 MIN NICKEL.
(909) = OVERALL TIN: 0.00254/.000100 MIN.

3. PRODUCT SPECIFICATION: PS-08-50

4. PACKAGING: SEE CHARTS

5. FOR TOP ENTRY AND RIGHT ANGLE ASSEMBLIES WITH LOWER INSERTION FORCE USE SINGLE BEAM CONTACT. (TERMINAL NO. 4244)

6. SOLDERABILITY: WHEN PARTS ARE SOLDERED AT A TEMPERATURE OF 230°C (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.

7. PARTS ARE STACKABLE END TO END ON (3.96)/.156 $\angle$

8. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPEC PS-45499-002.

ADD TITLES EC NO: UCP2011-3662 DRWN:MMS TROH 2011/05/20 CHKD:MK1PPER 2011/05/24 APPR:FSM1TH 2011/07/20		DESCRIPTION	QUALITY SYMBOLS <
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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:		TITLE: KK 156 HOUSING ASSY PCB 41815 SERIES DWG	SHEET No. - 4 -	
	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:		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
	Voids:		Voids:	NONE	Voids:	NONE	Voids:	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
	Housing No:	41815-N-AN
	Options	WITH RAMP
	Terminal No:	2144-AA-A1AA-228B
	Term Matl:	BRASS
	Plating:	228 – GOLD
	Dim C:	(3.68) / .145
	Voids:	NONE
	Hooks Cut:	NO
	Packaging:	PK-41815-001 TRAY
Ckts	Material No	Engineer Number
2	09-48-5023	A-41815-0313
3	09-48-5033	A-41815-0314
4	09-48-5043	A-41815-0315
5	09-48-5053	A-41815-0316
6	09-48-5063	A-41815-0317
7	09-48-5073	A-41815-0318
8	09-48-5083	A-41815-0319
9	09-48-5093	A-41815-0320
10	09-48-5103	A-41815-0321
11	09-48-5113	A-41815-0322
12	09-48-5123	A-41815-0323
13	09-48-5133	A-41815-0324
14	09-48-5143	A-41815-0325
15	09-48-5153	A-41815-0326

Assy. Proc:	BOTTOM ENTRY
Housing No:	41815-N-DN
Options	NO RAMPS
Terminal No:	2188-P909
Term Matl:	BRASS
Plating:	P909 – TIN
Dim C:	(4.06) / .160
Voids:	NONE
Hooks Cut:	YES
Packaging:	PK-41815-001 TRAY
Material No	Engineer Number
41815-0327	A-41815-0327
41815-0328	A-41815-0328
41815-0329	A-41815-0329
09-48-2056	A-41815-0330
41815-0331	A-41815-0331
41815-0332	A-41815-0332
09-48-2086	A-41815-0333
41815-0334	A-41815-0334
09-48-2106	A-41815-0335
41815-0336	A-41815-0336
41815-0337	A-41815-0337
41815-0338	A-41815-0338
41815-0339	A-41815-0339
41815-0340	A-41815-0340

Assy. Proc:	RIGHT ANGLE
Housing No:	41815-N-AN
Options	WITH RAMP
Terminal No:	2144-AA-A1AA-505B
Term Matl:	BRASS
Plating:	505 – GOLD
Dim C:	(3.68) / .145
Voids:	NONE
Hooks Cut:	NO
Packaging:	PK-41815-001 TRAY
Material No	Engineer Number
41815-0341	A-41815-0341
09-48-3037	A-41815-0342
41815-0343	A-41815-0343
41815-0344	A-41815-0344
41815-0345	A-41815-0345
41815-0346	A-41815-0346
41815-0347	A-41815-0347
41815-0348	A-41815-0348
41815-0349	A-41815-0349
41815-0350	A-41815-0350
41815-0351	A-41815-0351
41815-0352	A-41815-0352
41815-0353	A-41815-0353
41815-0354	A-41815-0354

Assy. Proc:	TOP ENTRY
Housing No:	41815-N-DN
Options	NO RAMPS
Terminal No:	2144-AA-A1AA-P909B
Term Matl:	BRASS
Plating:	P909 – TIN
Dim C:	(3.05) / .120
Voids:	NONE
Hooks Cut:	NO
Packaging:	PK-41815-001 TRAY
Material No	Engineer Number
41815-0355	A-41815-0355
41815-0356	A-41815-0356
09-48-2047	A-41815-0357
41815-0358	A-41815-0358
41815-0359	A-41815-0359
41815-0360	A-41815-0360
41815-0361	A-41815-0361
41815-0362	A-41815-0362
09-48-2107	A-41815-0363
41815-0364	A-41815-0364
41815-0365	A-41815-0365
41815-0366	A-41815-0366
41815-0367	A-41815-0367
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	



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	