

# RIGHT ANGLE

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

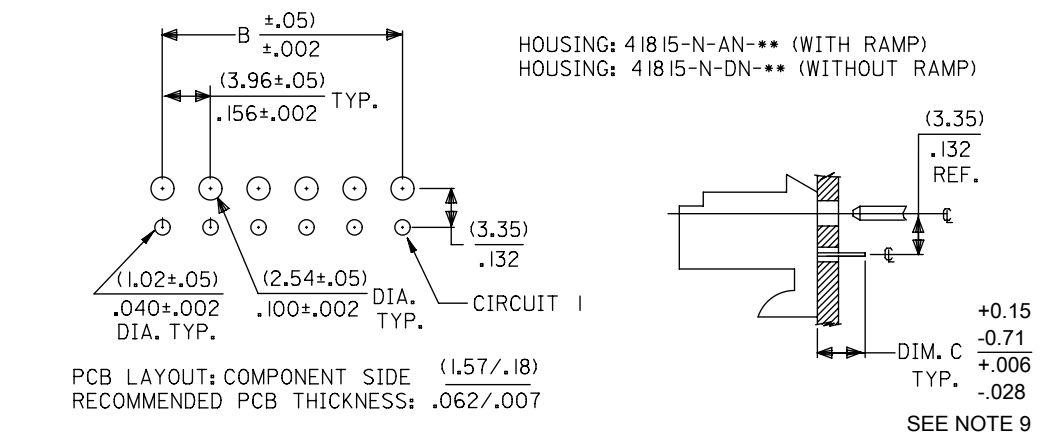


PCB LAYOUT: COMPONENT SIDE (1.57/.18)  
 RECOMMENDED PCB THICKNESS: .062/.007

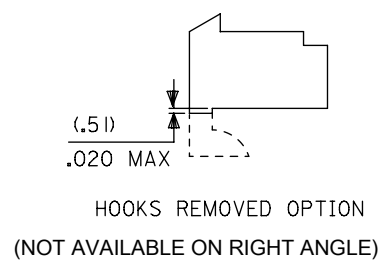
DIM. B	DIM. A	NO. OF CKTS
(3.96)	(7.82±.25)	2
.156	.308±.010	2
(7.92)	(11.79±.25)	3
.312	.464±.010	3
(11.89)	(15.75±.25)	4
.468	.620±.010	4
(15.85)	(19.71±.25)	5
.624	.776±.010	5
(19.81)	(23.67±.25)	6
.780	.932±.010	6
(23.77)	(27.64±.30)	7
.936	1.088±.012	7
(27.74)	(31.60±.25)	8
1.092	1.244±.012	8
(31.70)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

# BOTTOM ENTRY

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



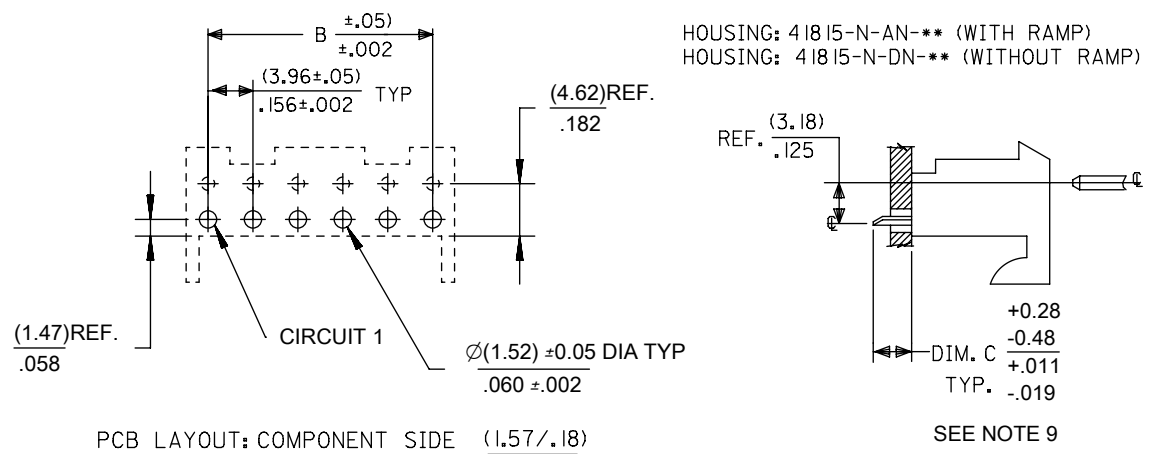
PCB LAYOUT: COMPONENT SIDE (1.57/.18)  
 RECOMMENDED PCB THICKNESS: .062/.007



HOOKS REMOVED OPTION  
 (NOT AVAILABLE ON RIGHT ANGLE)

# TOP ENTRY

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



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

### NOTES:

- MATERIAL: HOUSING: POLYESTER, RATED UL 94V-0, COLOR: NATURAL (WHITE)
- FINISH:
  - (197) = OVERALL REFLOWED MATTE TIN: 0.00152/.000060 MIN OVER 0.00127/.000050 MIN NICKEL.
  - (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.
  - (909) = OVERALL TIN: 0.00254/.000100 MIN.
- 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 (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 SMES-152.
- PARTS ARE STACKABLE END TO END ON (3.96)/.156 CENTERLINE.
- THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPEC PS-45499-002.
- DIMENSION 'C' MEASURED WITH TERMINAL PUSHED IN AGAINST THE STOP.

QUALITY SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
	DIM C TOLERANCE EC NO: 107740 DRWN: MKIPPER CHK'D: JBELL APPR: FSMITH REV:	GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION UNITS		SCALE					
				MM/IN		NTS							
▽ = 0		4 PLACES ±		MM	INCH	DRWN BY	DATE		KK 156 HOUSING PCB 41815 SERIES  PRODUCT CUSTOMER DRAWING SERIES: 41815 MATERIAL NUMBER: SEE CHART CUSTOMER: GENERAL MARKET DOCUMENT NUMBER: SDA-41815 DOC TYPE: PSD DOC PART: 000 SHEET NUMBER: 1 OF *				
▽ = 0		3 PLACES ±		±	± 0.01	SAMIEC 1987/01/28							
▽ = 0		2 PLACES ±		± 0.25	± 0.015	SAMIEC 1987/01/28							
▽ = 0		1 PLACES ±		± 0.38	±	SAMIEC 1987/01/28							
▽ = 0		0 PLACES ±		±	±	SAMIEC 1987/01/28							
▽ = 0		ANGULAR TOL ± 0.5				DRAWING SIZE		THIRD ANGLE PROJECTION					
▽ = 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				B							

RELEASE STATUS	RELEASE DATE
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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-197B	Terminal No:	2144-BA-A1AA-208B	Terminal No:	6298-1-197	Terminal No:	6298-1-208
Term Matl:	PHOS BRONZE	Term Matl:	PHOS BRONZE	Term Matl:	PHOS BRONZE	Term Matl:	PHOS BRONZE
Plating:	197 TIN	Plating:	208 – 15 GOLD	Plating:	197 – 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:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
AN4	EC NO.	KK 156 HOUSING ASSY PCB 41815 SERIES DWG	- 2 -
	DATE:		
	121254		
	8/30/2017		
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
SDA-41815	SS06	SS06	ISHWARG



## KK 156 PCB ASSY 2-15 CKT 41815 SERIES

Assy. Proc:	TOP ENTRY	Assy. Proc:	TOP ENTRY	Assy. Proc:	BOTTOM ENTRY	Assy. Proc:	TOP 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-197B	Terminal No:	2144-BA-A1AA-208B	Terminal No:	2188-1-P909	Terminal No:	2144-AA-A1AA-P909B
Term Matl:	PHOS BRONZE	Term Matl:	PHOS BRONZE	Term Matl:	BRASS	Term Matl:	BRASS
Plating:	197 – TIN	Plating:	208 – 15 GOLD	Plating:	P909 – TIN	Plating:	P909 – TIN
Dim C:	(3.05) / .120	Dim C:	(3.05) / .120	Dim C:	(3.18) / .125	Dim C:	(3.05) / .120
Voids:	NONE	Voids:	NONE	Voids:	NONE	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	09-48-4028	A-41815-0058	09-48-5025	A-41815-0072	09-48-2022	A-41815-0100	09-48-2025	A-41815-0114
3	09-48-4038	A-41815-0059	09-48-5035	A-41815-0073	09-48-2032	A-41815-0101	09-48-2035	A-41815-0115
4	09-48-4048	A-41815-0060	09-48-5045	A-41815-0074	09-48-2042	A-41815-0102	09-48-2045	A-41815-0116
5	09-48-4058	A-41815-0061	09-48-5055	A-41815-0075	09-48-2052	A-41815-0103	09-48-2055	A-41815-0117
6	09-48-4068	A-41815-0062	09-48-5065	A-41815-0076	09-48-2062	A-41815-0104	09-48-2065	A-41815-0118
7	09-48-4078	A-41815-0063	09-48-5075	A-41815-0077	09-48-2072	A-41815-0105	09-48-2075	A-41815-0119
8	09-48-4088	A-41815-0064	09-48-5085	A-41815-0078	09-48-2082	A-41815-0106	09-48-2085	A-41815-0120
9	09-48-4098	A-41815-0065	09-48-5095	A-41815-0079	09-48-2092	A-41815-0107	09-48-2095	A-41815-0121
10	09-48-4108	A-41815-0066	09-48-5105	A-41815-0080	09-48-2102	A-41815-0108	09-48-2105	A-41815-0122
11	09-48-4118	A-41815-0067	09-48-5115	A-41815-0081	09-48-2112	A-41815-0109	09-48-2115	A-41815-0123
12	09-48-4128	A-41815-0068	09-48-5125	A-41815-0082	09-48-2122	A-41815-0110	09-48-2125	A-41815-0124
13	09-48-4138	A-41815-0069	09-48-5135	A-41815-0083	09-48-2132	A-41815-0111	09-48-2135	A-41815-0125
14	09-48-4148	A-41815-0070	09-48-5145	A-41815-0084	09-48-2142	A-41815-0112	09-48-2145	A-41815-0126
15	09-48-4158	A-41815-0071	09-48-5155	A-41815-0085	09-48-2152	A-41815-0113	09-48-2155	A-41815-0127

REV:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
AN4	EC NO.	KK 156 HOUSING ASSY PCB 41815 SERIES DWG	- 3 -
	DATE:		
	121254		
	8/30/2017		
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
SDA-41815	SS06	SS06	ISHWARG
TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC			



## 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:	6298-197	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:	197 – TIN	Plating:	228 – GOLD	Plating:	P909 – TIN
Dim C:		Dim C:	(4.06) / .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	09-48-5080	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:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
AN4	EC NO. 121254	KK 156 HOUSING ASSY PCB 41815 SERIES DWG	- 4 -
	DATE: 8/30/2017		
DOCUMENT NUMBER: SDA-41815		CREATED / REVISED BY: SS06	CHECKED BY: SS06
		APPROVED BY: ISHWARG	



## KK 156 PCB ASSY 2-15 CKT 41815 SERIES

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

REV:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
AN4	EC NO.	KK 156 HOUSING ASSY PCB 41815 SERIES DWG	- 5 -
	DATE:		
	121254		
	8/30/2017		
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
SDA-41815	SS06	SS06	ISHWARG



## KK 156 PCB ASSY 2-15 CKT 41815 SERIES

Assy. Proc:	RIGHT ANGLE	Assy. Proc:		Assy. Proc:	RIGHT ANGLE	Assy. Proc:	BOTTOM ENTRY
Housing No:	41815-N-AN	Housing No:		Housing No:	41815-N-AN	Housing No:	41815-N-AN
Options	WITH RAMP	Options		Options	WITH RAMP	Options	WITH RAMP
Terminal No:	4244-A-197A	Terminal No:		Terminal No:	2144-AA-A1AA-208B	Terminal No:	2188-1-208
Term Matl:	PHOS BRONZE	Term Matl:		Term Matl:	BRASS	Term Matl:	BRASS
Plating:	197 – TIN	Plating:		Plating:	208 – 15 GOLD	Plating:	208 – 15 GOLD
Dim C:	(3.68) / .145	Dim C:		Dim C:	(3.68) / .145	Dim C:	(3.18) / .125
Voids:	NONE	Voids:		Voids:	NONE	Voids:	NONE
Hooks Cut:	NO	Hooks Cut:		Hooks Cut:	NO	Hooks Cut:	NO
Packaging:	PK-41815-001 TRAY	Packaging:		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	09-48-1023	A-41815-0369			09-48-3025	A-41815-0425	09-48-3024	A-41815-0439
3	09-48-1033	A-41815-0370			09-48-3035	A-41815-0426	09-48-3034	A-41815-0440
4	09-48-1043	A-41815-0371			09-48-3045	A-41815-0427	09-48-3044	A-41815-0441
5	09-48-1053	A-41815-0372			09-48-3055	A-41815-0428	09-48-3054	A-41815-0442
6	09-48-1063	A-41815-0373			09-48-3065	A-41815-0429	09-48-3064	A-41815-0443
7	09-48-1073	A-41815-0374			09-48-3075	A-41815-0430	09-48-3074	A-41815-0444
8	09-48-1083	A-41815-0375			09-48-3085	A-41815-0431	09-48-3084	A-41815-0445
9	09-48-1093	A-41815-0376			09-48-3095	A-41815-0432	09-48-3094	A-41815-0446
10	09-48-1103	A-41815-0377			09-48-3105	A-41815-0433	09-48-3104	A-41815-0447
11	09-48-1113	A-41815-0378			09-48-3115	A-41815-0434	09-48-3114	A-41815-0448
12	09-48-1123	A-41815-0379			09-48-3125	A-41815-0435	09-48-3124	A-41815-0449
13	09-48-1133	A-41815-0380			09-48-3135	A-41815-0436	09-48-3134	A-41815-0450
14	09-48-1143	A-41815-0381			09-48-3145	A-41815-0437	09-48-3144	A-41815-0451
15	09-48-1153	A-41815-0382			09-48-3155	A-41815-0438	09-48-3154	A-41815-0452

REV:	ECR/ECN INFORMATION:	TITLE:	<b>KK 156 HOUSING ASSY PCB 41815 SERIES DWG</b>	SHEET No.
AN4	EC NO. <b>121254</b>			- 6 -
	DATE: <b>8/30/2017</b>			
DOCUMENT NUMBER: <b>SDA-41815</b>		CREATED / REVISED BY: <b>SS06</b>	CHECKED BY: <b>SS06</b>	APPROVED BY: <b>ISHWARG</b>



## 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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

REV:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
AN4	EC NO.	KK 156 HOUSING ASSY PCB 41815 SERIES DWG	- 7 -
	DATE:		
	121254		
	8/30/2017		
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
SDA-41815	SS06	SS06	ISHWARG



## 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-197B	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:	197 – 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
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:	<b>AN4</b>	ECR/ECN INFORMATION:	EC NO. <b>121254</b>	DATE: <b>8/30/2017</b>	TITLE:	<b>KK 156 HOUSING ASSY PCB 41815 SERIES DWG</b>	SHEET No. <b>- 8 -</b>
DOCUMENT NUMBER:			CREATED / REVISED BY:		CHECKED BY:		APPROVED BY:
<b>SDA-41815</b>			<b>SS06</b>		<b>SS06</b>		<b>ISHWARG</b>





## 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:	6298-1-197	Terminal No:	6298-1-197	Terminal No:	2144-BA-A1AA-197B	Terminal No:	2144-BA-A1AA-197B
Term Matl:	PHOS BRONZE	Term Matl:	PHOS BRONZE	Term Matl:	PHOS BRONZE	Term Matl:	PHOS BRONZE
Plating:	197 – TIN	Plating:	197 – TIN	Plating:	197 – TIN	Plating:	197 – 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:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
AN4	EC NO.    121254	KK 156 HOUSING ASSY PCB 41815 SERIES DWG	- 9 -
	DATE:    8/30/2017		
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
SDA-41815	SS06	SS06	ISHWARG



## KK 156 PCB ASSY 2-15 CKT 41815 SERIES

Assy. Proc:	RIGHT ANGLE	Assy. Proc:	TOP ENTRY	Assy. Proc:	RIGHT ANGLE	Assy. Proc:	BOTTOM ENTRY
Housing No:	41815-N-DN	Housing No:	41815-N-DN	Housing No:	41815-N-AN	Housing No:	41815-N-DN
Options	WITHOUT RAMP	Options	WITHOUT RAMP	Options	WITH RAMP	Options	WITHOUT RAMP
Terminal No:	2144-BA-A1AA-197B	Terminal No:	2144-AA-A1AA-P909B	Terminal No:	2144-BA-A1AA-197B	Terminal No:	6298-197
Term Matl:	PHOS BRONZE	Term Matl:	BRASS	Term Matl:	PHOS BRONZE	Term Matl:	PHOS BRONZE
Plating:	197 – TIN	Plating:	P909 – TIN	Plating:	197 TIN	Plating:	197 – TIN
Dim C:	(3.68) / .145	Dim C:	(3.05) / .120	Dim C:	(3.68) / .145	Dim C:	(4.06) / .160
Voids:	NONE	Voids:	NONE	Voids:	TERMINAL VOID 2, 4	Voids:	NONE
Hooks Cut:	NO	Hooks Cut:	YES	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	41815-0630	A-41815-0630					41815-0672	A-41815-0672
3	41815-0631	A-41815-0631						
4	41815-0632	A-41815-0632	41815-0646	A-41815-0646			41815-0674	A-41815-0674
5	41815-0633	A-41815-0633			41815-0661	A-41815-0661		
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						

REV:	ECR/ECN INFORMATION:	TITLE:		SHEET No.
AN4	EC NO.	121254	<b>KK 156 HOUSING ASSY PCB 41815 SERIES DWG</b>	<b>- 10 -</b>
	DATE:	8/30/2017		
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
<b>SDA-41815</b>		<b>SS06</b>	<b>SS06</b>	<b>ISHWARG</b>



## KK 156 PCB ASSY 2-15 CKT 41815 SERIES

Assy. Proc:	RIGHT ANGLE
Housing No:	41815-N-AN
Options	WITH RAMP
Terminal No:	2144-BA-A1AA-197B
Term Matl:	PHOS BRONZE
Plating:	197 TIN
Dim C:	(3.68) / .145
Voids:	TERMINAL VOID 2
Hooks Cut:	NO
Packaging:	PK-41815-001 TRAY

Assy. Proc:	
Housing No:	
Options	
Terminal No:	
Term Matl:	
Plating:	
Dim C:	
Voids:	
Hooks Cut:	
Packaging:	

Assy. Proc:	
Housing No:	
Options	
Terminal No:	
Term Matl:	
Plating:	
Dim C:	
Voids:	
Hooks Cut:	
Packaging:	

Assy. Proc:	
Housing No:	
Options	
Terminal No:	
Term Matl:	
Plating:	
Dim C:	
Voids:	
Hooks Cut:	
Packaging:	

Ckts	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number
2								
3	41815-0687	A-41815-0687						
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

REV:	ECR/ECN INFORMATION:		TITLE:	SHEET No.
<b>AN4</b>	EC NO.	121254	<b>KK 156 HOUSING ASSY PCB 41815 SERIES DWG</b>	<b>- 11 -</b>
	DATE:	8/30/2017		
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
<b>SDA-41815</b>		<b>SS06</b>	<b>SS06</b>	<b>ISHWARG</b>

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