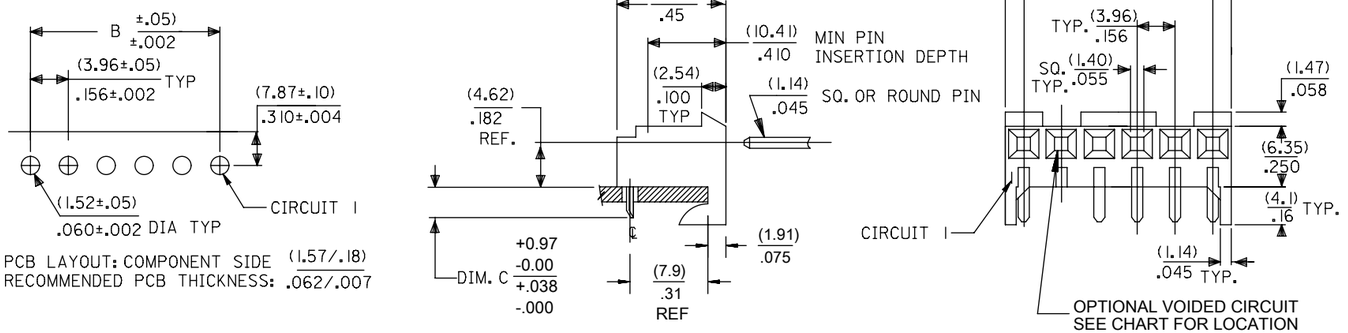
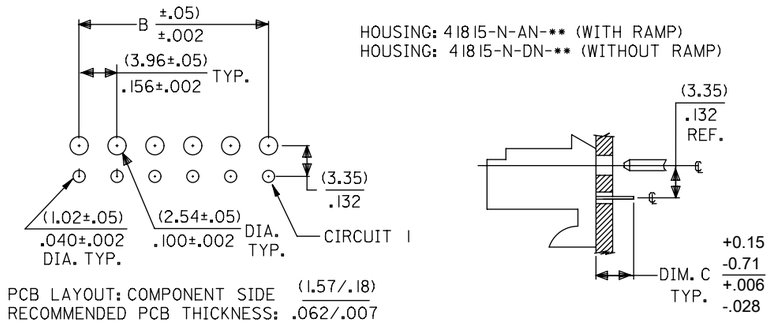
RIGHT ANGLE

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



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

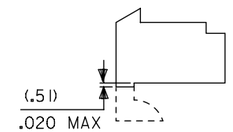
BOTTOM ENTRY



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

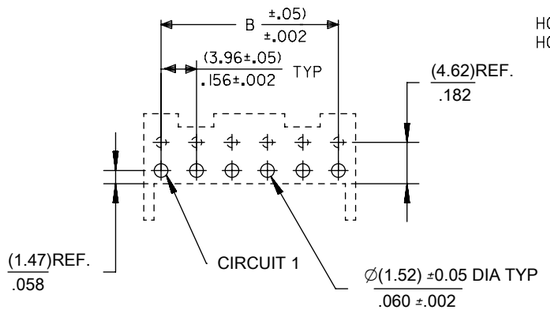
HOUSING: 41815-N-AN-** (WITH RAMP)
HOUSING: 41815-N-DN-** (WITHOUT RAMP)

SEE NOTE 9

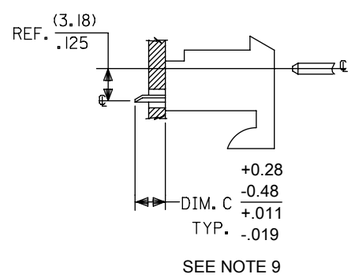


HOOKS REMOVED OPTION
(NOT AVAILABLE ON RIGHT ANGLE)

TOP ENTRY



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



SEE NOTE 9

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

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:
1. MATERIAL: HOUSING: POLYESTER, RATED UL 94V-0, COLOR: NATURAL (WHITE)
2. 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.
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 SMES-152.
7. PARTS ARE STACKABLE END TO END ON (3.96)/.156 CENTERLINE.
8. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPEC PS-45499-002.
9. DIMENSION 'C" MEASURED WITH TERMINAL PUSHED IN AGAINST THE STOP.

QUALITY SYMBOLS
EA = 0
EC = 0
EB = 0
▼ = 0
C = 0
☒ = 0
■ = 0
D = 0

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 2016/08/22
DRWN: MKIPPER 2016/08/24
CHK'D: JBELL 2016/08/26
APPR: FSMITH
REV: AP

GENERAL TOLERANCES (UNLESS SPECIFIED)

	MM	INCH
4 PLACES	±	±
3 PLACES	±	± 0.01
2 PLACES	± 0.25	± 0.015
1 PLACES	± 0.38	±
0 PLACES	±	±
ANGULAR TOL ± 0.5		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS: MM/IN
SCALE: NTS
DRWN BY: SAMIEC DATE: 1987/01/28
CHK'D BY: SAMIEC DATE: 1987/01/28
APPR BY: SAMIEC DATE: 1987/01/28
DRAWING SIZE: B
THIRD ANGLE PROJECTION

molex®

KK 156 HOUSING PCB
41815 SERIES

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
41815	SEE CHART	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SDA-41815	PSD	000	1 OF *

RELEASE STATUS		RELEASE DATE	

FORMAT: Eng-lega-master-tb-prod-B
REVISION: C
DATE: 2016/04/04

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.	**121254**	KK 156 HOUSING ASSY PCB 41815 SERIES DWG	**- 2 -**
	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:	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.	**121254**	KK 156 HOUSING ASSY PCB 41815 SERIES DWG	**- 3 -**
	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:		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:	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:	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.	**121254**	KK 156 HOUSING ASSY PCB 41815 SERIES DWG	**- 5 -**
	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:		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:	SHEET No.
AN4	EC NO.	**121254**	KK 156 HOUSING ASSY PCB 41815 SERIES DWG	**- 6 -**
	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:	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.	**121254**	KK 156 HOUSING ASSY PCB 41815 SERIES DWG	**- 7 -**
	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:	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:	ECR/ECN INFORMATION:		TITLE:	SHEET No.
AN4	EC NO.	**121254**	KK 156 HOUSING ASSY PCB 41815 SERIES DWG	**- 8 -**
	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:	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**	KK 156 HOUSING ASSY PCB 41815 SERIES DWG	**- 10 -**
	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:		Assy. Proc:		Assy. Proc:	
Housing No:	41815-N-AN	Housing No:		Housing No:		Housing No:	
Options	WITH RAMP	Options		Options		Options	
Terminal No:	2144-BA-A1AA-197B	Terminal No:		Terminal No:		Terminal No:	
Term Matl:	PHOS BRONZE	Term Matl:		Term Matl:		Term Matl:	
Plating:	197 TIN	Plating:		Plating:		Plating:	
Dim C:	(3.68) / .145	Dim C:		Dim C:		Dim C:	
Voids:	TERMINAL VOID 2	Voids:		Voids:		Voids:	
Hooks Cut:	NO	Hooks Cut:		Hooks Cut:		Hooks Cut:	
Packaging:	PK-41815-001 TRAY	Packaging:		Packaging:		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.
AN4	EC NO.	**121254**	KK 156 HOUSING ASSY PCB 41815 SERIES DWG	**- 11 -**
	DATE:	**8/30/2017**		

DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
SDA-41815	**SS06**	**SS06**	**ISHWARG**