

10

NO. OF CKTS.

DIM. A

DIM. B

1

(2.44±.15)  
.096±.006

—

2

(4.98±.15)  
.196±.006

(2.54±.10)  
.100±.004

3

(7.52±.15)  
.296±.006

(5.08±.10)  
.200±.004

4

(10.06±.15)  
.396±.006

(7.62±.10)  
.300±.004

5

(12.60±.18)  
.496±.007

(10.18±.13)  
.400±.005

6

(15.14±.18)  
.596±.007

(12.70±.13)  
.500±.005

7

(17.68±.20)  
.696±.008

(15.24±.15)  
.600±.006

8

(20.22±.20)  
.796±.008

(17.78±.15)  
.700±.006

9

(22.76±.20)  
.896±.008

(20.32±.15)  
.800±.006

10

(25.30±.25)  
.996±.010

(22.86±.20)  
.900±.008

11

(27.84±.25)  
1.096±.010

(25.40±.20)  
1.000±.008

12

(30.38±.25)  
1.196±.010

(27.94±.20)  
1.100±.008

13

(32.92±.25)  
1.296±.010

(30.48±.20)  
1.200±.008

14

(35.46±.25)  
1.396±.010

(33.02±.20)  
1.300±.008

15

(38.00±.28)  
1.496±.011

(35.56±.23)  
1.400±.009

16

(40.54±.28)  
1.596±.011

(38.10±.23)  
1.500±.009

17

(43.08±.28)  
1.696±.011

(40.64±.23)  
1.600±.009

18

(45.62±.28)  
1.796±.011

(43.18±.23)  
1.700±.009

19

(48.16±.28)  
1.896±.011

(45.72±.23)  
1.800±.009

20

(50.70±.30)  
1.996±.012

(48.26±.25)  
1.900±.010

21

(53.24±.30)  
2.096±.012

(50.80±.25)  
2.000±.010

22

(55.78±.30)  
2.196±.012

(53.34±.25)  
2.100±.010

23

(58.32±.30)  
2.296±.012

(55.88±.25)  
2.200±.010

24

(60.86±.30)  
2.396±.012

(58.42±.30)  
2.300±.012

25

(63.40±.38)  
2.496±.015

(60.96±.30)  
2.400±.012

9

ASS'Y. PROC. A  
RIGHT ANGLE

Diagram showing dimensions and tolerances for ASS'Y. PROC. A RIGHT ANGLE. Dimensions include (2.54±0.05) TYP. NON ACCUM., (1.07±0.05) DIA. HOLE TYP., (5.33±0.10) REF., (7.9) .31, (6.1) MIN. .24 INSERTION DEPTH, (3.6) .142 REF., (4.70±0.5) .185±.020, (3.0±0.5) .12±.02, (2.54) .100 TYP., (0.8) .03, (1.8) .07, (7.1) .28 REF., and C (±0.38) ±.015.

RECOMMENDED P.C. BOARD LAYOUT  
FOR ASS'Y. PROC. A

8

ASS'Y. PROC. B  
BOTTOM ENTRY

Diagram showing dimensions and tolerances for ASS'Y. PROC. B BOTTOM ENTRY. Dimensions include (3.8±0.10) TYP. .150±.004, (1.78±0.25) DIA. HOLE TYP. CLEARANCE, C (±0.38) ±.015, and (25.40±.20) REF.

RECOMMENDED P.C. BOARD LAYOUT  
FOR ASS'Y. PROC. B

7

ASS'Y. PROC. C  
TOP ENTRY

Diagram showing dimensions and tolerances for ASS'Y. PROC. C TOP ENTRY. Dimensions include (2.51) REF. .099, (1.09) REF. .043, (3.61) REF. .142, C (±0.38) ±.015, and (45.72±.23) REF.

RECOMMENDED P.C. BOARD LAYOUT  
FOR ASS'Y. PROC. C

6

4455-N HOUSING SHOWN

Diagram showing dimensions and tolerances for 4455-N HOUSING SHOWN. Dimensions include A, B, (2.54) .100 TYP., (0.8) .03, (1.8) .07, (7.1) .28 REF., (7.9) .31, (6.1) MIN. .24 INSERTION DEPTH, (3.6) .142 REF., (4.70±0.5) .185±.020, (3.0±0.5) .12±.02, (2.54) .100 TYP., (0.8) .03, (1.8) .07, (7.1) .28 REF., and C (±0.38) ±.015.

5

4455-N2 HOUSING SHOWN

Diagram showing dimensions and tolerances for 4455-N2 HOUSING SHOWN. Dimensions include C (±0.38) ±.015, (25.40±.20) REF., (3.8±0.10) TYP. .150±.004, (1.78±0.25) DIA. HOLE TYP. CLEARANCE, and (43.18±.23) REF.

4

HOUSING NO. 4455-AN

Diagram showing dimensions and tolerances for HOUSING NO. 4455-AN. Dimensions include (2.54) .100 TYP., (0.8) .03, (1.8) .07, (7.1) .28 REF., (7.9) .31, (6.1) MIN. .24 INSERTION DEPTH, (3.6) .142 REF., (4.70±0.5) .185±.020, (3.0±0.5) .12±.02, (2.54) .100 TYP., (0.8) .03, (1.8) .07, (7.1) .28 REF., and C (±0.38) ±.015.

WITH CENTER HOOK

3

HOUSING NO. 4455-BN  
SEE NOTE 9

Diagram showing dimensions and tolerances for HOUSING NO. 4455-BN. Dimensions include (2.54) .100 TYP., (0.8) .03, (1.8) .07, (7.1) .28 REF., (7.9) .31, (6.1) MIN. .24 INSERTION DEPTH, (3.6) .142 REF., (4.70±0.5) .185±.020, (3.0±0.5) .12±.02, (2.54) .100 TYP., (0.8) .03, (1.8) .07, (7.1) .28 REF., and C (±0.38) ±.015.

WITH RAMP AND POLARIZING

2

HOUSING NO. 4455-NH

Diagram showing dimensions and tolerances for HOUSING NO. 4455-NH. Dimensions include (2.54) .100 TYP., (0.8) .03, (1.8) .07, (7.1) .28 REF., (7.9) .31, (6.1) MIN. .24 INSERTION DEPTH, (3.6) .142 REF., (4.70±0.5) .185±.020, (3.0±0.5) .12±.02, (2.54) .100 TYP., (0.8) .03, (1.8) .07, (7.1) .28 REF., and C (±0.38) ±.015.

WITH REINFORCED HOOKS

1

HOUSING NO. 4455-NR

Diagram showing dimensions and tolerances for HOUSING NO. 4455-NR. Dimensions include (2.54) .100 TYP., (0.8) .03, (1.8) .07, (7.1) .28 REF., (7.9) .31, (6.1) MIN. .24 INSERTION DEPTH, (3.6) .142 REF., (4.70±0.5) .185±.020, (3.0±0.5) .12±.02, (2.54) .100 TYP., (0.8) .03, (1.8) .07, (7.1) .28 REF., and C (±0.38) ±.015.

WITH RAMP

2

HOUSING NO. 4455-N-02

Diagram showing dimensions and tolerances for HOUSING NO. 4455-N-02. Dimensions include (2.54) .100 TYP., (0.8) .03, (1.8) .07, (7.1) .28 REF., (7.9) .31, (6.1) MIN. .24 INSERTION DEPTH, (3.6) .142 REF., (4.70±0.5) .185±.020, (3.0±0.5) .12±.02, (2.54) .100 TYP., (0.8) .03, (1.8) .07, (7.1) .28 REF., and C (±0.38) ±.015.

MOLDED VOID IN CKT 2

3

HOUSING NO. 4455-N

Diagram showing dimensions and tolerances for HOUSING NO. 4455-N. Dimensions include (2.54) .100 TYP., (0.8) .03, (1.8) .07, (7.1) .28 REF., (7.9) .31, (6.1) MIN. .24 INSERTION DEPTH, (3.6) .142 REF., (4.70±0.5) .185±.020, (3.0±0.5) .12±.02, (2.54) .100 TYP., (0.8) .03, (1.8) .07, (7.1) .28 REF., and C (±0.38) ±.015.

AVAILABLE ON BOTTOM ENTRY APPLICATIONS ONLY

4

HOOKS CUT OPTION AVAILABLE ON TOP ENTRY, SEE CHART

Diagram showing dimensions and tolerances for HOOKS CUT OPTION AVAILABLE ON TOP ENTRY, SEE CHART. Dimensions include (0.51) .020 MAX.

5

END BACKWALLS MUST BE REMOVED  
SEE NOTE 9

Diagram showing dimensions and tolerances for END BACKWALLS MUST BE REMOVED, SEE NOTE 9. Dimensions include (0.51) .020 MAX.

6

KK BREAKAWAY FRICTION LOCK  
OR POLARIZING HEADER

Diagram showing dimensions and tolerances for KK BREAKAWAY FRICTION LOCK OR POLARIZING HEADER. Dimensions include (0.51) .020 MAX.

7

2-\*

D11

8

1

D12

9

SHT. REV.

10

ADD NOTE 9

EC NO: UCP2014-1471

DRWN:KIPPER

CHKD:ANDERSON

APPR:FSM/TH

2013/10/02

2013/10/09

2013/10/09

QUALITY SYMBOLS

▽=0

▽=0

▽=0

REVISION

D12

11

GENERAL TOLERANCES  
(UNLESS SPECIFIED)

mm

INCH

4 PLACES

±---

±---

3 PLACES

±---

±.010

2 PLACES

±0.25

±.015

1 PLACE

±0.36

±---

0 PLACE

±

±

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

12

DIMENSION STYLE  
MM/IN

DRAWN BY

DATE

SAMIEC

10/5/84

CHECKED BY

DATE

PATEL

10/5/84

APPROVED BY

DATE

LENZ

10/5/84

MATERIAL NO.

SEE CHART

DOCUMENT NO.

SDA-4455

SHEET NO.

1 OF \*

13

SCALE  
---

DESIGN UNITS  
INCH

THIRD ANGLE  
PROJECTION

KK 100 PCB ASSY  
4455 SERIES DWG

molex

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX  
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

1b\_frame\_B\_P\_ME\_T  
Rev. G 2012/01/11



# KK 100 PCB ASSY 2-25 CKT

## 4455 SERIES

STANDARD PRODUCT

**A-4455- \* \* N \* \* - \***

**ASSY PROCEDURE**  
A=RIGHT ANGLE  
B=BOTTOM ENTRY  
C=TOP ENTRY

**HOUSING OPTION**  
A=4455-AN  
B=4455-BN  
E=4455-NHH  
G=4455-BN (HOOKS CUT OFF)  
H=4455-N2 (BOTTOM ENTRY ONLY)  
P=4455-NR (HOOKS CUT OFF)  
R=4455-NR  
V=4455-N-02  
W=4455-N-02 (HOOKS CUT OFF)  
Y=4455-N (HOOKS CUT OFF)  
Z=4455-N

**NO OF CIRCUITS**

**TERMINAL TYPE**

| Code | Number  | Material    | Form        |
|------|---------|-------------|-------------|
| A    | 4316-4  | Brass       | Standard    |
| B    | 6516-4  | Phos Bronze | Standard    |
| C    | 6516-5C | Phos Bronze | Cat Ear / V |
| D    | 4316-3B | Brass       | Std / V     |
| F    | 6516-6C | Phos Bronze | Cat Ear / V |
| G    | 4316-3  | Brass       | Standard    |
| J    | 6516-3B | Phos Bronze | Std / V     |
| L    | 6516-3C | Phos Bronze | Cat Ear / V |
| M    | 6516-4A | Phos Bronze | Cat Ear     |
| T    | 4316-4A | Brass       | Cat Ear     |

**PLATING**  
(SEE SHEET 1)

**VOID LOCATION**  
NUMBER = CIRCUIT VOIDED  
MULTIPLE VOIDS START  
WITH 51  
BLANK = NONE

| Ckts |
|------|
| 2    |
| 3    |
| 4    |
| 5    |
| 6    |
| 7    |
| 8    |
| 9    |
| 10   |
| 11   |
| 12   |
| 13   |
| 14   |
| 15   |
| 16   |
| 17   |
| 18   |
| 19   |
| 20   |
| 21   |
| 22   |
| 23   |
| 24   |
| 25   |

|              |                    |
|--------------|--------------------|
| Assy Proc:   | RIGHT ANGLE        |
| Hooks Cut:   | NO                 |
| Housing No:  | 4455-N             |
| Terminal No: | 4316-4(P909)       |
| Dim C:       | 3.35 / .132        |
| Plating:     | P909               |
| Packaging:   | PK-44646-001       |
| Voids:       | NONE               |
|              |                    |
| Material No  | Engineer Number    |
| 22-15-2026   | A-4455-AZ02A(P909) |
| 22-15-2036   | A-4455-AZ03A(P909) |
| 22-15-2046   | A-4455-AZ04A(P909) |
| 22-15-2056   | A-4455-AZ05A(P909) |
| 22-15-2066   | A-4455-AZ06A(P909) |
| 22-15-2076   | A-4455-AZ07A(P909) |
| 22-15-2086   | A-4455-AZ08A(P909) |
| 22-15-2096   | A-4455-AZ09A(P909) |
| 22-15-2106   | A-4455-AZ10A(P909) |
| 22-15-2116   | A-4455-AZ11A(P909) |
| 22-15-2126   | A-4455-AZ12A(P909) |
| 22-15-2136   | A-4455-AZ13A(P909) |
| 22-15-2146   | A-4455-AZ14A(P909) |
| 22-15-2156   | A-4455-AZ15A(P909) |
| 22-15-2166   | A-4455-AZ16A(P909) |
| 22-15-2176   | A-4455-AZ17A(P909) |
| 22-15-2186   | A-4455-AZ18A(P909) |
| 22-15-2196   | A-4455-AZ19A(P909) |
| 22-15-2206   | A-4455-AZ20A(P909) |
| 22-15-2216   | A-4455-AZ21A(P909) |
| 22-15-2226   | A-4455-AZ22A(P909) |
| 22-15-2236   | A-4455-AZ23A(P909) |
| 22-15-2246   | A-4455-AZ24A(P909) |
| 22-15-2256   | A-4455-AZ25A(P909) |

|              |                   |
|--------------|-------------------|
| Assy Proc:   | RIGHT ANGLE       |
| Hooks Cut:   | NO                |
| Housing No:  | 4455-N            |
| Terminal No: | 4316-4(565)       |
| Dim C:       | 3.35 / .132       |
| Plating:     | 565               |
| Packaging:   | PK-44646-001      |
| Voids:       | NONE              |
|              |                   |
| Material No  | Engineer Number   |
| 22-16-2021   | A-4455-AZ02A(565) |
| 22-16-2031   | A-4455-AZ03A(565) |
| 22-16-2041   | A-4455-AZ04A(565) |
| 22-16-2051   | A-4455-AZ05A(565) |
| 22-16-2061   | A-4455-AZ06A(565) |
| 22-16-2071   | A-4455-AZ07A(565) |
| 22-16-2081   | A-4455-AZ08A(565) |
| 22-16-2091   | A-4455-AZ09A(565) |
| 22-16-2101   | A-4455-AZ10A(565) |
| 22-16-2111   | A-4455-AZ11A(565) |
| 22-16-2121   | A-4455-AZ12A(565) |
| 22-16-2131   | A-4455-AZ13A(565) |
| 22-16-2141   | A-4455-AZ14A(565) |
| 22-16-2151   | A-4455-AZ15A(565) |
| 22-16-2161   | A-4455-AZ16A(565) |
| 22-16-2171   | A-4455-AZ17A(565) |
| 22-16-2181   | A-4455-AZ18A(565) |
| 22-16-2191   | A-4455-AZ19A(565) |
| 22-16-2201   | A-4455-AZ20A(565) |
| 22-16-2211   | A-4455-AZ21A(565) |
| 22-16-2221   | A-4455-AZ22A(565) |
| 22-16-2231   | A-4455-AZ23A(565) |
| 22-16-2241   | A-4455-AZ24A(565) |
| 22-16-2251   | A-4455-AZ25A(565) |

|                  |                       |                                            |               |
|------------------|-----------------------|--------------------------------------------|---------------|
| REV:             | ECR/ECN INFORMATION:  | TITLE:                                     | SHEET No.     |
| <b>D11</b>       | EC No.: UCP2013-4795  | <b>KK 100 PCB ASSY<br/>4455 SERIES DWG</b> | <b>- 2 -</b>  |
|                  | DATE: 5/13/2013       |                                            |               |
| DOCUMENT NUMBER: | CREATED / REVISED BY: | CHECKED BY:                                | APPROVED BY:  |
| <b>SDA-4455</b>  | <b>MKIPPER</b>        | <b>JBELL</b>                               | <b>FSMITH</b> |



# KK 100 PCB ASSY 2-25 CKT

## 4455 SERIES

STANDARD PRODUCT

| Ckts | Assy Proc: RIGHT ANGLE |                     | Assy Proc: BOTTOM ENTRY |                      | Assy Proc: BOTTOM ENTRY |                     | Assy Proc: BOTTOM ENTRY |                     |
|------|------------------------|---------------------|-------------------------|----------------------|-------------------------|---------------------|-------------------------|---------------------|
|      | Hooks Cut:             | NO                  | Hooks Cut:              | NO                   | Hooks Cut:              | NO                  | Hooks Cut:              | NO                  |
| 2    | Housing No:            | 4455-N              | Housing No:             | 4455-N2              | Housing No:             | 4455-N2             | Housing No:             | 4455-N2             |
| 3    | Terminal No:           | 4316-4(208)         | Terminal No:            | 4316-3B(P909)        | Terminal No:            | 4316-3B(565)        | Terminal No:            | 4316-3B(208)        |
| 4    | Dim C:                 | 3.35 / .132         | Dim C:                  | 3.35 / .132          | Dim C:                  | 3.35 / .132         | Dim C:                  | 3.35 / .132         |
| 5    | Plating:               | 208                 | Plating:                | P909                 | Plating:                | 565                 | Plating:                | 208                 |
| 6    | Packaging:             | PK-44646-001        | Packaging:              | PK-44646-001         | Packaging:              | PK-44646-001        | Packaging:              | PK-44646-001        |
| 7    | Voids:                 | NONE                | Voids:                  | NONE                 | Voids:                  | NONE                | Voids:                  | NONE                |
| 8    |                        |                     |                         |                      |                         |                     |                         |                     |
| 9    | Material No            | Engineer Number     | Material No             | Engineer Number      | Material No             | Engineer Number     | Material No             | Engineer Number     |
| 10   | 22-16-2020             | A-4455-AZ02A(208)   | 22-14-2024              | A-4455-BH02D(P909)   | 22-17-2022              | A-4455-BH02D(565)   | 22-17-3022              | A-4455-BH02D(208)   |
| 11   | 22-16-2030             | A-4455-AZ 03 A(208) | 22-14-2034              | A-4455-BH 03 D(P909) | 22-17-2032              | A-4455-BH 03 D(565) | 22-17-3032              | A-4455-BH 03 D(208) |
| 12   | 22-16-2040             | A-4455-AZ 04 A(208) | 22-14-2044              | A-4455-BH 04 D(P909) | 22-17-2042              | A-4455-BH 04 D(565) | 22-17-3042              | A-4455-BH 04 D(208) |
| 13   | 22-16-2050             | A-4455-AZ 05 A(208) | 22-14-2054              | A-4455-BH 05 D(P909) | 22-17-2052              | A-4455-BH 05 D(565) | 22-17-3052              | A-4455-BH 05 D(208) |
| 14   | 22-16-2060             | A-4455-AZ 06 A(208) | 22-14-2064              | A-4455-BH 06 D(P909) | 22-17-2062              | A-4455-BH 06 D(565) | 22-17-3062              | A-4455-BH 06 D(208) |
| 15   | 22-16-2070             | A-4455-AZ 07 A(208) | 22-14-2074              | A-4455-BH 07 D(P909) | 22-17-2072              | A-4455-BH 07 D(565) | 22-17-3072              | A-4455-BH 07 D(208) |
| 16   | 22-16-2080             | A-4455-AZ 08 A(208) | 22-14-2084              | A-4455-BH 08 D(P909) | 22-17-2082              | A-4455-BH 08 D(565) | 22-17-3082              | A-4455-BH 08 D(208) |
| 17   | 22-16-2090             | A-4455-AZ 09 A(208) | 22-14-2094              | A-4455-BH 09 D(P909) | 22-17-2092              | A-4455-BH 09 D(565) | 22-17-3092              | A-4455-BH 09 D(208) |
| 18   | 22-16-2100             | A-4455-AZ 10 A(208) | 22-14-2104              | A-4455-BH 10 D(P909) | 22-17-2102              | A-4455-BH 10 D(565) | 22-17-3102              | A-4455-BH 10 D(208) |
| 19   | 22-16-2110             | A-4455-AZ 11 A(208) | 22-14-2114              | A-4455-BH 11 D(P909) | 22-17-2112              | A-4455-BH 11 D(565) | 22-17-3112              | A-4455-BH 11 D(208) |
| 20   | 22-16-2120             | A-4455-AZ 12 A(208) | 22-14-2124              | A-4455-BH 12 D(P909) | 22-17-2122              | A-4455-BH 12 D(565) | 22-17-3122              | A-4455-BH 12 D(208) |
| 21   | 22-16-2130             | A-4455-AZ 13 A(208) | 22-14-2134              | A-4455-BH 13 D(P909) | 22-17-2132              | A-4455-BH 13 D(565) | 22-17-3132              | A-4455-BH 13 D(208) |
| 22   | 22-16-2140             | A-4455-AZ 14 A(208) | 22-14-2144              | A-4455-BH 14 D(P909) | 22-17-2142              | A-4455-BH 14 D(565) | 22-17-3142              | A-4455-BH 14 D(208) |
| 23   | 22-16-2150             | A-4455-AZ 15 A(208) | 22-14-2154              | A-4455-BH 15 D(P909) | 22-17-2152              | A-4455-BH 15 D(565) | 22-17-3152              | A-4455-BH 15 D(208) |
| 24   | 22-16-2160             | A-4455-AZ 16 A(208) | 22-14-2164              | A-4455-BH 16 D(P909) | 22-17-2162              | A-4455-BH 16 D(565) | 22-17-3162              | A-4455-BH 16 D(208) |
| 25   | 22-16-2170             | A-4455-AZ 17 A(208) | 22-14-2174              | A-4455-BH 17 D(P909) | 22-17-2172              | A-4455-BH 17 D(565) | 22-17-3172              | A-4455-BH 17 D(208) |
|      | 22-16-2180             | A-4455-AZ 18 A(208) | 22-14-2184              | A-4455-BH 18 D(P909) | 22-17-2182              | A-4455-BH 18 D(565) | 22-17-3182              | A-4455-BH 18 D(208) |
|      | 22-16-2190             | A-4455-AZ 19 A(208) | 22-14-2194              | A-4455-BH 19 D(P909) | 22-17-2192              | A-4455-BH 19 D(565) | 22-17-3192              | A-4455-BH 19 D(208) |
|      | 22-16-2200             | A-4455-AZ 20 A(208) | 22-14-2204              | A-4455-BH 20 D(P909) | 22-17-2202              | A-4455-BH 20 D(565) | 22-17-3202              | A-4455-BH 20 D(208) |
|      | 22-16-2210             | A-4455-AZ 21 A(208) | 22-14-2214              | A-4455-BH 21 D(P909) | 22-17-2212              | A-4455-BH 21 D(565) | 22-17-3212              | A-4455-BH 21 D(208) |
|      | 22-16-2220             | A-4455-AZ 22 A(208) | 22-14-2224              | A-4455-BH 22 D(P909) | 22-17-2222              | A-4455-BH 22 D(565) | 22-17-3222              | A-4455-BH 22 D(208) |
|      | 22-16-2230             | A-4455-AZ 23 A(208) | 22-14-2234              | A-4455-BH 23 D(P909) | 22-17-2232              | A-4455-BH 23 D(565) | 22-17-3232              | A-4455-BH 23 D(208) |
|      | 22-16-2240             | A-4455-AZ 24 A(208) | 22-14-2244              | A-4455-BH 24 D(P909) | 22-17-2242              | A-4455-BH 24 D(565) | 22-17-3242              | A-4455-BH 24 D(208) |
|      | 22-16-2250             | A-4455-AZ 25 A(208) | 22-14-2254              | A-4455-BH 25 D(P909) | 22-17-2252              | A-4455-BH 25 D(565) | 22-17-3252              | A-4455-BH 25 D(208) |

|                                            |                                                       |                                                                 |                                      |
|--------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------|
| REV:<br><b>D11</b>                         | <b>ECR/ECN INFORMATION:</b>                           | <b>TITLE:</b><br><br><b>KK 100 PCB ASSY<br/>4455 SERIES DWG</b> | <b>SHEET No.</b><br><br><b>- 3 -</b> |
|                                            | EC No.: <b>UCP2013-4795</b><br>DATE: <b>5/13/2013</b> |                                                                 |                                      |
| <b>DOCUMENT NUMBER:</b><br><b>SDA-4455</b> |                                                       | <b>CREATED / REVISED BY:</b><br><b>MKIPPER</b>                  | <b>CHECKED BY:</b><br><b>JBELL</b>   |
|                                            |                                                       | <b>APPROVED BY:</b><br><b>FSMITH</b>                            |                                      |



# KK 100 PCB ASSY 2-25 CKT

## 4455 SERIES

| Ckts | Assy Proc:   |  | TOP ENTRY            |  | Assy Proc:   |  | TOP ENTRY           |  | Assy Proc:   |  | TOP ENTRY           |  | Assy Proc:   |  | RIGHT ANGLE         |  |
|------|--------------|--|----------------------|--|--------------|--|---------------------|--|--------------|--|---------------------|--|--------------|--|---------------------|--|
|      | Hooks Cut:   |  | NO                   |  | Hooks Cut:   |  | NO                  |  | Hooks Cut:   |  | NO                  |  | Hooks Cut:   |  | NO                  |  |
|      | Housing No:  |  | 4455-N               |  | Housing No:  |  | 4455-N              |  | Housing No:  |  | 4455-N              |  | Housing No:  |  | 4455-N              |  |
|      | Terminal No: |  | 4316-4(P909)         |  | Terminal No: |  | 4316-4(565)         |  | Terminal No: |  | 4316-4(208)         |  | Terminal No: |  | 6516-4(P909)        |  |
|      | Dim C:       |  | 3.35 / .132          |  | Dim C:       |  | 3.35 / .132         |  | Dim C:       |  | 3.35 / .132         |  | Dim C:       |  | 3.35 / .132         |  |
|      | Plating:     |  | P909                 |  | Plating:     |  | 565                 |  | Plating:     |  | 208                 |  | Plating:     |  | P909                |  |
|      | Packaging:   |  | PK-44646-001         |  | Packaging:   |  | PK-44646-001        |  | Packaging:   |  | PK-44646-001        |  | Packaging:   |  | PK-44646-001        |  |
|      | Voids:       |  | NONE                 |  | Voids:       |  | NONE                |  | Voids:       |  | NONE                |  | Voids:       |  | NONE                |  |
|      | Material No  |  | Engineer Number      |  | Material No  |  | Engineer Number     |  | Material No  |  | Engineer Number     |  | Material No  |  | Engineer Number     |  |
|      |              |  |                      |  |              |  |                     |  |              |  |                     |  |              |  |                     |  |
| 2    | 22-02-2025   |  | A-4455-CZ02A(P909)   |  | 22-18-2023   |  | A-4455-CZ02A(565)   |  | 22-18-2021   |  | A-4455-CZ02A(208)   |  | 22-15-4025   |  | A-4455-AZ02B(P909)  |  |
| 3    | 22-02-2035   |  | A-4455-CZ 03A(P909)  |  | 22-18-2033   |  | A-4455-CZ 03 A(565) |  | 22-18-2031   |  | A-4455-CZ 03 A(208) |  | 22-15-4035   |  | A-4455-AZ 03B(P909) |  |
| 4    | 22-02-2045   |  | A-4455-CZ 04A(P909)  |  | 22-18-2043   |  | A-4455-CZ 04 A(565) |  | 22-18-2041   |  | A-4455-CZ 04 A(208) |  | 22-15-4045   |  | A-4455-AZ 04B(P909) |  |
| 5    | 22-02-2055   |  | A-4455-CZ 05A(P909)  |  | 22-18-2053   |  | A-4455-CZ 05 A(565) |  | 22-18-2051   |  | A-4455-CZ 05 A(208) |  | 22-15-4055   |  | A-4455-AZ 05B(P909) |  |
| 6    | 22-02-2065   |  | A-4455-CZ 06A(P909)  |  | 22-18-2063   |  | A-4455-CZ 06 A(565) |  | 22-18-2061   |  | A-4455-CZ 06 A(208) |  | 22-15-4065   |  | A-4455-AZ 06B(P909) |  |
| 7    | 22-02-2075   |  | A-4455-CZ 07A(P909)  |  | 22-18-2073   |  | A-4455-CZ 07 A(565) |  | 22-18-2071   |  | A-4455-CZ 07 A(208) |  | 22-15-4075   |  | A-4455-AZ 07B(P909) |  |
| 8    | 22-02-2085   |  | A-4455-CZ 08 A(P909) |  | 22-18-2083   |  | A-4455-CZ 08 A(565) |  | 22-18-2081   |  | A-4455-CZ 08 A(208) |  | 22-15-4085   |  | A-4455-AZ 08B(P909) |  |
| 9    | 22-02-2095   |  | A-4455-CZ 09 A(P909) |  | 22-18-2093   |  | A-4455-CZ 09 A(565) |  | 22-18-2091   |  | A-4455-CZ 09 A(208) |  | 22-15-4095   |  | A-4455-AZ 09B(P909) |  |
| 10   | 22-02-2105   |  | A-4455-CZ 10 A(P909) |  | 22-18-2103   |  | A-4455-CZ 10 A(565) |  | 22-18-2101   |  | A-4455-CZ 10 A(208) |  | 22-15-4105   |  | A-4455-AZ 10B(P909) |  |
| 11   | 22-02-2115   |  | A-4455-CZ 11 A(P909) |  | 22-18-2113   |  | A-4455-CZ 11 A(565) |  | 22-18-2111   |  | A-4455-CZ 11 A(208) |  | 22-15-4115   |  | A-4455-AZ 11B(P909) |  |
| 12   | 22-02-2125   |  | A-4455-CZ 12 A(P909) |  | 22-18-2123   |  | A-4455-CZ 12 A(565) |  | 22-18-2121   |  | A-4455-CZ 12 A(208) |  | 22-15-4125   |  | A-4455-AZ 12B(P909) |  |
| 13   | 22-02-2135   |  | A-4455-CZ 13 A(P909) |  | 22-18-2133   |  | A-4455-CZ 13 A(565) |  | 22-18-2131   |  | A-4455-CZ 13 A(208) |  | 22-15-4135   |  | A-4455-AZ 13B(P909) |  |
| 14   | 22-02-2145   |  | A-4455-CZ 14 A(P909) |  | 22-18-2143   |  | A-4455-CZ 14 A(565) |  | 22-18-2141   |  | A-4455-CZ 14 A(208) |  | 22-15-4145   |  | A-4455-AZ 14B(P909) |  |
| 15   | 22-02-2155   |  | A-4455-CZ 15 A(P909) |  | 22-18-2153   |  | A-4455-CZ 15 A(565) |  | 22-18-2151   |  | A-4455-CZ 15 A(208) |  | 22-15-4155   |  | A-4455-AZ 15B(P909) |  |
| 16   | 22-02-2165   |  | A-4455-CZ 16 A(P909) |  | 22-18-2163   |  | A-4455-CZ 16 A(565) |  | 22-18-2161   |  | A-4455-CZ 16 A(208) |  | 22-15-4165   |  | A-4455-AZ 16B(P909) |  |
| 17   | 22-02-2175   |  | A-4455-CZ 17 A(P909) |  | 22-18-2173   |  | A-4455-CZ 17 A(565) |  | 22-18-2171   |  | A-4455-CZ 17 A(208) |  | 22-15-4175   |  | A-4455-AZ 17B(P909) |  |
| 18   | 22-02-2185   |  | A-4455-CZ 18 A(P909) |  | 22-18-2183   |  | A-4455-CZ 18 A(565) |  | 22-18-2181   |  | A-4455-CZ 18 A(208) |  | 22-15-4185   |  | A-4455-AZ 18B(P909) |  |
| 19   | 22-02-2195   |  | A-4455-CZ 19 A(P909) |  | 22-18-2193   |  | A-4455-CZ 19 A(565) |  | 22-18-2191   |  | A-4455-CZ 19 A(208) |  | 22-15-4195   |  | A-4455-AZ 19B(P909) |  |
| 20   | 22-02-2205   |  | A-4455-CZ 20 A(P909) |  | 22-18-2203   |  | A-4455-CZ 20 A(565) |  | 22-18-2201   |  | A-4455-CZ 20 A(208) |  | 22-15-4205   |  | A-4455-AZ 20B(P909) |  |
| 21   | 22-02-2215   |  | A-4455-CZ 21 A(P909) |  | 22-18-2213   |  | A-4455-CZ 21 A(565) |  | 22-18-2211   |  | A-4455-CZ 21 A(208) |  | 22-15-4215   |  | A-4455-AZ 21B(P909) |  |
| 22   | 22-02-2225   |  | A-4455-CZ 22 A(P909) |  | 22-18-2223   |  | A-4455-CZ 22 A(565) |  | 22-18-2221   |  | A-4455-CZ 22 A(208) |  | 22-15-4225   |  | A-4455-AZ 22B(P909) |  |
| 23   | 22-02-2235   |  | A-4455-CZ 23 A(P909) |  | 22-18-2233   |  | A-4455-CZ 23 A(565) |  | 22-18-2231   |  | A-4455-CZ 23 A(208) |  | 22-15-4235   |  | A-4455-AZ 23B(P909) |  |
| 24   | 22-02-2245   |  | A-4455-CZ 24 A(P909) |  | 22-18-2243   |  | A-4455-CZ 24 A(565) |  | 22-18-2241   |  | A-4455-CZ 24 A(208) |  | 22-15-4245   |  | A-4455-AZ 24B(P909) |  |
| 25   | 22-02-2255   |  | A-4455-CZ 25 A(P909) |  | 22-18-2253   |  | A-4455-CZ 25 A(565) |  | 22-18-2251   |  | A-4455-CZ 25 A(208) |  | 22-15-4255   |  | A-4455-AZ 25B(P909) |  |

|                                         |                                                                                       |                                                          |                                 |                                   |                               |
|-----------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------|-----------------------------------|-------------------------------|
| REV:<br><br><b>D11</b>                  | ECR/ECN INFORMATION:<br><br>EC No.: <b>UCP2013-4795</b><br><br>DATE: <b>5/13/2013</b> | TITLE:<br><br><b>KK 100 PCB ASSY<br/>4455 SERIES DWG</b> |                                 |                                   | SHEET No.<br><br><b>- 4 -</b> |
| DOCUMENT NUMBER:<br><br><b>SDA-4455</b> |                                                                                       | CREATED / REVISED BY:<br><br><b>MKIPPER</b>              | CHECKED BY:<br><br><b>JBELL</b> | APPROVED BY:<br><br><b>FSMITH</b> |                               |



# KK 100 PCB ASSY 2-25 CKT

## 4455 SERIES

| Ckts | Assy Proc: RIGHT ANGLE |                     | Assy Proc: RIGHT ANGLE |                     | Assy Proc: BOTTOM ENTRY |                     | Assy Proc: BOTTOM ENTRY |                     |
|------|------------------------|---------------------|------------------------|---------------------|-------------------------|---------------------|-------------------------|---------------------|
|      | Hooks Cut:             | NO                  | Hooks Cut:             | NO                  | Hooks Cut:              | NO                  | Hooks Cut:              | NO                  |
| 2    | Housing No:            | 4455-N              | Housing No:            | 4455-N              | Housing No:             | 4455-N2             | Housing No:             | 4455-N2             |
| 3    | Terminal No:           | 6516-4(565)         | Terminal No:           | 6516-4(208)         | Terminal No:            | 6516-3B(565)        | Terminal No:            | 6516-3B(208)        |
| 4    | Dim C:                 | 3.35 / .132         | Dim C:                 | 3.35 / .132         | Dim C:                  | 3.35 / .132         | Dim C:                  | 3.35 / .132         |
| 5    | Plating:               | 565                 | Plating:               | 208                 | Plating:                | 565                 | Plating:                | 208                 |
| 6    | Packaging:             | PK-44646-001        | Packaging:             | PK-44646-001        | Packaging:              | PK-44646-001        | Packaging:              | PK-44646-001        |
| 7    | Voids:                 | NONE                | Voids:                 | NONE                | Voids:                  | NONE                | Voids:                  | NONE                |
| 8    | Material No            | Engineer Number     | Material No            | Engineer Number     | Material No             | Engineer Number     | Material No             | Engineer Number     |
| 9    | 22-16-2024             | A-4455-AZ02B(565)   |                        | A-4455-AZ02B(208)   | 22-17-2021              | A-4455-BH02J(565)   |                         | A-4455-BH02J(208)   |
| 10   | 22-16-2034             | A-4455-AZ 03 B(565) |                        | A-4455-AZ 03 B(208) | 22-17-2031              | A-4455-BH 03 J(565) |                         | A-4455-BH 03 J(208) |
| 11   | 22-16-2044             | A-4455-AZ 04 B(565) |                        | A-4455-AZ 04 B(208) | 22-17-2041              | A-4455-BH 04 J(565) |                         | A-4455-BH 04 J(208) |
| 12   | 22-16-2054             | A-4455-AZ 05 B(565) |                        | A-4455-AZ 05 B(208) | 22-17-2051              | A-4455-BH 05 J(565) |                         | A-4455-BH 05 J(208) |
| 13   | 22-16-2064             | A-4455-AZ 06 B(565) |                        | A-4455-AZ 06 B(208) | 22-17-2061              | A-4455-BH 06 J(565) |                         | A-4455-BH 06 J(208) |
| 14   | 22-16-2074             | A-4455-AZ 07 B(565) |                        | A-4455-AZ 07 B(208) | 22-17-2071              | A-4455-BH 07 J(565) |                         | A-4455-BH 07 J(208) |
| 15   | 22-16-2084             | A-4455-AZ 08 B(565) |                        | A-4455-AZ 08 B(208) | 22-17-2081              | A-4455-BH 08 J(565) |                         | A-4455-BH 08 J(208) |
| 16   | 22-16-2094             | A-4455-AZ 09 B(565) |                        | A-4455-AZ 09 B(208) | 22-17-2091              | A-4455-BH 09 J(565) |                         | A-4455-BH 09 J(208) |
| 17   | 22-16-2104             | A-4455-AZ 10 B(565) |                        | A-4455-AZ 10 B(208) | 22-17-2101              | A-4455-BH 10 J(565) |                         | A-4455-BH 10 J(208) |
| 18   | 22-16-2114             | A-4455-AZ 11 B(565) |                        | A-4455-AZ 11 B(208) | 22-17-2111              | A-4455-BH 11 J(565) |                         | A-4455-BH 11 J(208) |
| 19   | 22-16-2124             | A-4455-AZ 12 B(565) |                        | A-4455-AZ 12 B(208) | 22-17-2121              | A-4455-BH 12 J(565) |                         | A-4455-BH 12 J(208) |
| 20   | 22-16-2134             | A-4455-AZ 13 B(565) |                        | A-4455-AZ 13 B(208) | 22-17-2131              | A-4455-BH 13 J(565) |                         | A-4455-BH 13 J(208) |
| 21   | 22-16-2144             | A-4455-AZ 14 B(565) |                        | A-4455-AZ 14 B(208) | 22-17-2141              | A-4455-BH 14 J(565) |                         | A-4455-BH 14 J(208) |
| 22   | 22-16-2154             | A-4455-AZ 15 B(565) |                        | A-4455-AZ 15 B(208) | 22-17-2151              | A-4455-BH 15 J(565) |                         | A-4455-BH 15 J(208) |
| 23   | 22-16-2164             | A-4455-AZ 16 B(565) |                        | A-4455-AZ 16 B(208) | 22-17-2161              | A-4455-BH 16 J(565) |                         | A-4455-BH 16 J(208) |
| 24   | 22-16-2174             | A-4455-AZ 17 B(565) |                        | A-4455-AZ 17 B(208) | 22-17-2171              | A-4455-BH 17 J(565) |                         | A-4455-BH 17 J(208) |
| 25   | 22-16-2184             | A-4455-AZ 18 B(565) |                        | A-4455-AZ 18 B(208) | 22-17-2181              | A-4455-BH 18 J(565) |                         | A-4455-BH 18 J(208) |
|      | 22-16-2194             | A-4455-AZ 19 B(565) |                        | A-4455-AZ 19 B(208) | 22-17-2191              | A-4455-BH 19 J(565) |                         | A-4455-BH 19 J(208) |
|      | 22-16-2204             | A-4455-AZ 20 B(565) |                        | A-4455-AZ 20 B(208) | 22-17-2201              | A-4455-BH 20 J(565) |                         | A-4455-BH 20 J(208) |
|      | 22-16-2214             | A-4455-AZ 21 B(565) |                        | A-4455-AZ 21 B(208) | 22-17-2211              | A-4455-BH 21 J(565) |                         | A-4455-BH 21 J(208) |
|      | 22-16-2224             | A-4455-AZ 22 B(565) |                        | A-4455-AZ 22 B(208) | 22-17-2221              | A-4455-BH 22 J(565) |                         | A-4455-BH 22 J(208) |
|      | 22-16-2234             | A-4455-AZ 23 B(565) |                        | A-4455-AZ 23 B(208) | 22-17-2231              | A-4455-BH 23 J(565) |                         | A-4455-BH 23 J(208) |
|      | 22-16-2244             | A-4455-AZ 24 B(565) |                        | A-4455-AZ 24 B(208) | 22-17-2241              | A-4455-BH 24 J(565) |                         | A-4455-BH 24 J(208) |
|      | 22-16-2254             | A-4455-AZ 25 B(565) |                        | A-4455-AZ 25 B(208) | 22-17-2251              | A-4455-BH 25 J(565) |                         | A-4455-BH 25 J(208) |

|                  |                       |                                    |              |
|------------------|-----------------------|------------------------------------|--------------|
| REV:             | ECR/ECN INFORMATION:  | TITLE:                             | SHEET No.    |
| D11              | EC No.: UCP2013-4795  | KK 100 PCB ASSY<br>4455 SERIES DWG | - 5 -        |
|                  | DATE: 5/13/2013       |                                    |              |
| DOCUMENT NUMBER: | CREATED / REVISED BY: | CHECKED BY:                        | APPROVED BY: |
| SDA-4455         | MKIPPER               | JBELL                              | FSMITH       |



# KK 100 PCB ASSY 2-25 CKT

## 4455 SERIES

| Ckts | Assy Proc:   | TOP ENTRY            | Assy Proc:   | TOP ENTRY           | Assy Proc:   | TOP ENTRY           | Assy Proc:   | RIGHT ANGLE         |
|------|--------------|----------------------|--------------|---------------------|--------------|---------------------|--------------|---------------------|
|      | Hooks Cut:   | NO                   | Hooks Cut:   | NO                  | Hooks Cut:   | NO                  | Hooks Cut:   | NO                  |
| 2    | Housing No:  | 4455-N               | Housing No:  | 4455-N              | Housing No:  | 4455-4              | Housing No:  | 4455-AN             |
| 3    | Terminal No: | 6516-4(P909)         | Terminal No: | 6516-4(565)         | Terminal No: | 6516-4(208)         | Terminal No: | 4316-4(P909)        |
| 4    | Dim C:       | 3.35 / .132          | Dim C:       | 3.35 / .132         | Dim C:       | 3.35 / .132         | Dim C:       | 3.35 / .132         |
| 5    | Plating:     | P909                 | Plating:     | 565                 | Plating:     | 208                 | Plating:     | P909                |
| 6    | Packaging:   | PK-44646-001         | Packaging:   | PK-44646-001        | Packaging:   | PK-44646-001        | Packaging:   | PK-44646-001        |
| 7    | Voids:       | NONE                 | Voids:       | NONE                | Voids:       | NONE                | Voids:       | NONE                |
| 8    | Material No  | Engineer Number      | Material No  | Engineer Number     | Material No  | Engineer Number     | Material No  | Engineer Number     |
| 9    |              | A-4455-CZ02B(P909)   | 22-18-2022   | A-4455-CZ02B(565)   |              | A-4455-CZ02B(208)   |              |                     |
| 10   |              | A-4455-CZ 03 B(P909) | 22-18-2032   | A-4455-CZ 03 B(565) |              | A-4455-CZ 03B(208)  |              |                     |
| 11   |              | A-4455-CZ 04 B(P909) | 22-18-2042   | A-4455-CZ 04 B(565) |              | A-4455-CZ 04 B(208) |              |                     |
| 12   |              | A-4455-CZ 05 B(P909) | 22-18-2052   | A-4455-CZ 05 B(565) |              | A-4455-CZ 05 B(208) |              |                     |
| 13   |              | A-4455-CZ 06 B(P909) | 22-18-2062   | A-4455-CZ 06 B(565) |              | A-4455-CZ 06 B(208) |              |                     |
| 14   |              | A-4455-CZ 07 B(P909) | 22-18-2072   | A-4455-CZ 07 B(565) |              | A-4455-CZ 07 B(208) | 22-15-2075   | A-4455-AA07A(P909)  |
| 15   |              | A-4455-CZ 08 B(P909) | 22-18-2082   | A-4455-CZ 08 B(565) |              | A-4455-CZ 08 B(208) | 22-15-2085   | A-4455-AA 08A(P909) |
| 16   |              | A-4455-CZ 09 B(P909) | 22-18-2092   | A-4455-CZ 09 B(565) |              | A-4455-CZ 09 B(208) | 22-15-2095   | A-4455-AA 09A(P909) |
| 17   |              | A-4455-CZ 10 B(P909) | 22-18-2102   | A-4455-CZ 10 B(565) |              | A-4455-CZ 10 B(208) | 22-15-2105   | A-4455-AA 10A(P909) |
| 18   |              | A-4455-CZ 11 B(P909) | 22-18-2112   | A-4455-CZ 11 B(565) |              | A-4455-CZ 11 B(208) | 22-15-2115   | A-4455-AA 11A(P909) |
| 19   |              | A-4455-CZ 12 B(P909) | 22-18-2122   | A-4455-CZ 12 B(565) |              | A-4455-CZ 12 B(208) | 22-15-2125   | A-4455-AA 12A(P909) |
| 20   |              | A-4455-CZ 13 B(P909) | 22-18-2132   | A-4455-CZ 13 B(565) |              | A-4455-CZ 13 B(208) | 22-15-2135   | A-4455-AA 13A(P909) |
| 21   |              | A-4455-CZ 14 B(P909) | 22-18-2142   | A-4455-CZ 14 B(565) |              | A-4455-CZ 14 B(208) | 22-15-2145   | A-4455-AA 14A(P909) |
| 22   |              | A-4455-CZ 15 B(P909) | 22-18-2152   | A-4455-CZ 15 B(565) |              | A-4455-CZ 15 B(208) | 22-15-2155   | A-4455-AA 15A(P909) |
| 23   |              | A-4455-CZ 16 B(P909) | 22-18-2162   | A-4455-CZ 16 B(565) |              | A-4455-CZ 16 B(208) | 22-15-2165   | A-4455-AA 16A(P909) |
| 24   |              | A-4455-CZ 17 B(P909) | 22-18-2172   | A-4455-CZ 17 B(565) |              | A-4455-CZ 17 B(208) | 22-15-2175   | A-4455-AA 17A(P909) |
| 25   |              | A-4455-CZ 18 B(P909) | 22-18-2182   | A-4455-CZ 18 B(565) |              | A-4455-CZ 18 B(208) | 22-15-2185   | A-4455-AA 18A(P909) |
|      |              | A-4455-CZ 19 B(P909) | 22-18-2192   | A-4455-CZ 19 B(565) |              | A-4455-CZ 19 B(208) | 22-15-2195   | A-4455-AA 19A(P909) |
|      |              | A-4455-CZ 20 B(P909) | 22-18-2202   | A-4455-CZ 20 B(565) |              | A-4455-CZ 20 B(208) | 22-15-2205   | A-4455-AA 20A(P909) |
|      |              | A-4455-CZ 21 B(P909) | 22-18-2212   | A-4455-CZ 21 B(565) |              | A-4455-CZ 21 B(208) | 22-15-2215   | A-4455-AA 21A(P909) |
|      |              | A-4455-CZ 22 B(P909) | 22-18-2222   | A-4455-CZ 22 B(565) |              | A-4455-CZ 22 B(208) | 22-15-2225   | A-4455-AA 22A(P909) |
|      |              | A-4455-CZ 23 B(P909) | 22-18-2232   | A-4455-CZ 23 B(565) |              | A-4455-CZ 23 B(208) | 22-15-2235   | A-4455-AA 23A(P909) |
|      |              | A-4455-CZ 24 B(P909) | 22-18-2242   | A-4455-CZ 24 B(565) |              | A-4455-CZ 24 B(208) | 22-15-2245   | A-4455-AA 24A(P909) |
|      |              | A-4455-CZ 25 B(P909) | 22-18-2252   | A-4455-CZ 25 B(565) |              | A-4455-CZ 25 B(208) | 22-15-2255   | A-4455-AA 25A(P909) |

|                  |                       |                                            |               |
|------------------|-----------------------|--------------------------------------------|---------------|
| REV:             | ECR/ECN INFORMATION:  | TITLE:                                     | SHEET No.     |
| <b>D11</b>       | EC No.: UCP2013-4795  | <b>KK 100 PCB ASSY<br/>4455 SERIES DWG</b> | <b>- 6 -</b>  |
|                  | DATE: 5/13/2013       |                                            |               |
| DOCUMENT NUMBER: | CREATED / REVISED BY: | CHECKED BY:                                | APPROVED BY:  |
| <b>SDA-4455</b>  | <b>MKIPPER</b>        | <b>JBELL</b>                               | <b>FSMITH</b> |



# KK 100 PCB ASSY 2-25 CKT

## 4455 SERIES

| Ckts | Assy Proc: RIGHT ANGLE |                     | Assy Proc: RIGHT ANGLE |                     | Assy Proc: RIGHT ANGLE |                     | Assy Proc: RIGHT ANGLE |                     |
|------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|
|      | Hooks Cut:             | NO                  | Hooks Cut:             | NO                  | Hooks Cut:             | NO                  | Hooks Cut:             | NO                  |
|      | Housing No:            | 4455-AN             | Housing No:            | 4455-BN             | Housing No:            | 4455-BN             | Housing No:            | 4455-NHH            |
|      | Terminal No:           | 4316-4(208)         | Terminal No:           | 4316-4(228)         | Terminal No:           | 4316-4(P909)        | Terminal No:           | 4316-4(P909)        |
|      | Dim C:                 | 3.35 / .132         | Dim C:                 | 3.35 / .132         | Dim C:                 | 3.35 / .132         | Dim C:                 | 3.35 / .132         |
|      | Plating:               | 208                 | Plating:               | 228                 | Plating:               | P909                | Plating:               | P909                |
|      | Packaging:             | PK-44646-001        | Packaging:             | PK-44646-001        | Packaging:             | PK-44646-001        | Packaging:             | PK-44646-001        |
|      | Voids:                 | NONE                | Voids:                 | NONE                | Voids:                 | NONE                | Voids:                 | NONE                |
|      | Material No            | Engineer Number     | Material No            | Engineer Number     | Material No            | Engineer Number     | Material No            | Engineer Number     |
| 2    |                        |                     |                        | A-4455-AB02A(228)   | 22-15-4024             | A-4455-AB02A(P909)  | 22-15-2022             | A-4455-AE02A(P909)  |
| 3    |                        |                     |                        | A-4455-AB 03 A(228) | 22-15-4034             | A-4455-AB 03A(P909) | 22-15-2032             | A-4455-AE 03A(P909) |
| 4    |                        |                     |                        | A-4455-AB 04 A(228) | 22-15-4044             | A-4455-AB 04A(P909) | 22-15-2042             | A-4455-AE 04A(P909) |
| 5    |                        |                     |                        | A-4455-AB 05 A(228) | 22-15-4054             | A-4455-AB 05A(P909) | 22-15-2052             | A-4455-AE 05A(P909) |
| 6    |                        |                     | 50-34-8518             | A-4455-AB 06 A(228) | 22-15-4064             | A-4455-AB 06A(P909) | 22-15-2062             | A-4455-AE 06A(P909) |
| 7    | 22-16-2076             | A-4455-AA07A(208)   |                        | A-4455-AB 07 A(228) | 22-15-4074             | A-4455-AB 07A(P909) | 22-15-2072             | A-4455-AE 07A(P909) |
| 8    | 22-16-2086             | A-4455-AA 08 A(208) |                        | A-4455-AB 08 A(228) | 22-15-4084             | A-4455-AB 08A(P909) | 22-15-2082             | A-4455-AE 08A(P909) |
| 9    | 22-16-2096             | A-4455-AA 09 A(208) |                        | A-4455-AB 09 A(228) | 22-15-4094             | A-4455-AB 09A(P909) | 22-15-2092             | A-4455-AE 09A(P909) |
| 10   | 22-16-2106             | A-4455-AA 10 A(208) |                        | A-4455-AB 10 A(228) | 22-15-4104             | A-4455-AB 10A(P909) | 22-15-2102             | A-4455-AE 10A(P909) |
| 11   | 22-16-2116             | A-4455-AA 11 A(208) |                        | A-4455-AB 11 A(228) | 22-15-4114             | A-4455-AB 11A(P909) | 22-15-2112             | A-4455-AE 11A(P909) |
| 12   | 22-16-2126             | A-4455-AA 12 A(208) |                        | A-4455-AB 12 A(228) | 22-15-4124             | A-4455-AB 12A(P909) | 22-15-2122             | A-4455-AE 12A(P909) |
| 13   | 22-16-2136             | A-4455-AA 13 A(208) |                        | A-4455-AB 13 A(228) | 22-15-4134             | A-4455-AB 13A(P909) | 22-15-2132             | A-4455-AE 13A(P909) |
| 14   | 22-16-2146             | A-4455-AA 14 A(208) |                        | A-4455-AB 14 A(228) | 22-15-4144             | A-4455-AB 14A(P909) | 22-15-2142             | A-4455-AE 14A(P909) |
| 15   | 22-16-2156             | A-4455-AA 15 A(208) |                        | A-4455-AB 15 A(228) | 22-15-4154             | A-4455-AB 15A(P909) | 22-15-2152             | A-4455-AE 15A(P909) |
| 16   | 22-16-2166             | A-4455-AA 16 A(208) |                        | A-4455-AB 16 A(228) | 22-15-4164             | A-4455-AB 16A(P909) | 22-15-2162             | A-4455-AE 16A(P909) |
| 17   | 22-16-2176             | A-4455-AA 17 A(208) |                        | A-4455-AB 17 A(228) | 22-15-4174             | A-4455-AB 17A(P909) | 22-15-2172             | A-4455-AE 17A(P909) |
| 18   | 22-16-2186             | A-4455-AA 18 A(208) |                        | A-4455-AB 18 A(228) | 22-15-4184             | A-4455-AB 18A(P909) | 22-15-2182             | A-4455-AE 18A(P909) |
| 19   | 22-16-2196             | A-4455-AA 19 A(208) |                        | A-4455-AB 19 A(228) | 22-15-4194             | A-4455-AB 19A(P909) | 22-15-2192             | A-4455-AE 19A(P909) |
| 20   | 22-16-2206             | A-4455-AA 20 A(208) |                        | A-4455-AB 20 A(228) | 22-15-4204             | A-4455-AB 20A(P909) | 22-15-2202             | A-4455-AE 20A(P909) |
| 21   | 22-16-2216             | A-4455-AA 21 A(208) |                        | A-4455-AB 21 A(228) | 22-15-4214             | A-4455-AB 21A(P909) | 22-15-2212             | A-4455-AE 21A(P909) |
| 22   | 22-16-2226             | A-4455-AA 22 A(208) |                        | A-4455-AB 22 A(228) | 22-15-4224             | A-4455-AB 22A(P909) | 22-15-2222             | A-4455-AE 22A(P909) |
| 23   | 22-16-2236             | A-4455-AA 23 A(208) |                        | A-4455-AB 23 A(228) | 22-15-4234             | A-4455-AB 23A(P909) | 22-15-2232             | A-4455-AE 23A(P909) |
| 24   | 22-16-2246             | A-4455-AA 24 A(208) | 22-17-3240             | A-4455-AB 24 A(228) | 22-15-4244             | A-4455-AB 24A(P909) | 22-15-2242             | A-4455-AE 24A(P909) |
| 25   | 22-16-2256             | A-4455-AA 25 A(208) |                        | A-4455-AB 25 A(228) | 22-15-4254             | A-4455-AB 25A(P909) | 22-15-2252             | A-4455-AE 25A(P909) |

|                  |                       |                                    |               |
|------------------|-----------------------|------------------------------------|---------------|
| REV:             | ECR/ECN INFORMATION:  | TITLE:                             | SHEET No.     |
| <b>D11</b>       | EC No.: UCP2013-4795  | KK 100 PCB ASSY<br>4455 SERIES DWG | <b>- 7 -</b>  |
|                  | DATE: 5/13/2013       |                                    |               |
| DOCUMENT NUMBER: | CREATED / REVISED BY: | CHECKED BY:                        | APPROVED BY:  |
| <b>SDA-4455</b>  | <b>MKIPPER</b>        | <b>JBELL</b>                       | <b>FSMITH</b> |



# KK 100 PCB ASSY 2-25 CKT

## 4455 SERIES

| Ckts | Assy Proc: RIGHT ANGLE |                      | Assy Proc: RIGHT ANGLE |                     | Assy Proc: RIGHT ANGLE |                     | Assy Proc: RIGHT ANGLE |                     |
|------|------------------------|----------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|
|      | Hooks Cut:             | NO                   | Hooks Cut:             | NO                  | Hooks Cut:             | NO                  | Hooks Cut:             | NO                  |
|      | Housing No:            | 4455-NR              | Housing No:            | 4455-N              | Housing No:            | 4455-N              | Housing No:            | 4455-N              |
|      | Terminal No:           | 4316-4(P909)         | Terminal No:           | 4316-4(228)         | Terminal No:           | 6516-4(228)         | Terminal No:           | 6516-4(228)         |
|      | Dim C:                 | 3.35 / .132          | Dim C:                 | 3.35 / .132         | Dim C:                 | 3.35 / .132         | Dim C:                 | 3.35 / .132         |
|      | Plating:               | P909                 | Plating:               | 228                 | Plating:               | 228                 | Plating:               | 228                 |
|      | Packaging:             | PK-44646-001         | Packaging:             | PK-44646-001        | Packaging:             | PK-44646-001        | Packaging:             | PK-44646-001        |
|      | Voids:                 | NONE                 | Voids:                 | NONE                | Voids:                 | NONE                | Voids:                 | NONE                |
|      |                        |                      |                        |                     |                        |                     |                        |                     |
|      | Material No            | Engineer Number      | Material No            | Engineer Number     | Material No            | Engineer Number     | Material No            | Engineer Number     |
| 2    | 22-15-4022             | A-4455-AR02A(P909)   |                        | A-4455-AZ02A(228)   | 22-17-5023             | A-4455-AZ02B(228)   | 22-16-2022             | A-4455-AZ02B(228)   |
| 3    | 22-15-4032             | A-4455-AR 03 A(P909) |                        | A-4455-AZ 03 A(228) | 22-17-5033             | A-4455-AZ 03 B(228) | 22-16-2032             | A-4455-AZ 03 B(228) |
| 4    | 22-15-4042             | A-4455-AR 04 A(P909) |                        | A-4455-AZ 04 A(228) | 22-17-5043             | A-4455-AZ 04 B(228) | 22-16-2042             | A-4455-AZ 04 B(228) |
| 5    | 22-15-4052             | A-4455-AR 05 A(P909) |                        | A-4455-AZ 05 A(228) | 22-17-5053             | A-4455-AZ 05 B(228) | 22-16-2052             | A-4455-AZ 05 B(228) |
| 6    | 22-15-4062             | A-4455-AR 06 A(P909) |                        | A-4455-AZ 06 A(228) | 22-17-5063             | A-4455-AZ 06 B(228) | 22-16-2062             | A-4455-AZ 06 B(228) |
| 7    | 22-15-4072             | A-4455-AR 07 A(P909) |                        | A-4455-AZ 07 A(228) | 22-17-5073             | A-4455-AZ 07 B(228) | 22-16-2072             | A-4455-AZ 07 B(228) |
| 8    | 22-15-4082             | A-4455-AR 08 A(P909) |                        | A-4455-AZ 08 A(228) | 22-17-5083             | A-4455-AZ 08 B(228) | 22-16-2082             | A-4455-AZ 08 B(228) |
| 9    | 22-15-4092             | A-4455-AR 09 A(P909) |                        | A-4455-AZ 09 A(228) | 22-17-5093             | A-4455-AZ 09 B(228) | 22-16-2092             | A-4455-AZ 09 B(228) |
| 10   | 22-15-4102             | A-4455-AR 10 A(P909) |                        | A-4455-AZ 10 A(228) | 22-17-5103             | A-4455-AZ 10 B(228) | 22-16-2102             | A-4455-AZ 10 B(228) |
| 11   | 22-15-4112             | A-4455-AR 11 A(P909) |                        | A-4455-AZ 11 A(228) | 22-17-5113             | A-4455-AZ 11 B(228) | 22-16-2112             | A-4455-AZ 11 B(228) |
| 12   | 22-15-4122             | A-4455-AR 12 A(P909) |                        | A-4455-AZ 12 A(228) | 22-17-5123             | A-4455-AZ 12 B(228) | 22-16-2122             | A-4455-AZ 12 B(228) |
| 13   | 22-15-4132             | A-4455-AR 13 A(P909) |                        | A-4455-AZ 13 A(228) | 22-17-5133             | A-4455-AZ 13 B(228) | 22-16-2132             | A-4455-AZ 13 B(228) |
| 14   | 22-15-4142             | A-4455-AR 14 A(P909) |                        | A-4455-AZ 14 A(228) | 22-17-5143             | A-4455-AZ 14 B(228) | 22-16-2142             | A-4455-AZ 14 B(228) |
| 15   | 22-15-4152             | A-4455-AR 15 A(P909) |                        | A-4455-AZ 15 A(228) | 22-17-5153             | A-4455-AZ 15 B(228) | 22-16-2152             | A-4455-AZ 15 B(228) |
| 16   | 22-15-4162             | A-4455-AR 16 A(P909) |                        | A-4455-AZ 16 A(228) | 22-17-5163             | A-4455-AZ 16 B(228) | 22-16-2162             | A-4455-AZ 16 B(228) |
| 17   | 22-15-4172             | A-4455-AR 17 A(P909) |                        | A-4455-AZ 17 A(228) | 22-17-5173             | A-4455-AZ 17 B(228) | 22-16-2172             | A-4455-AZ 17 B(228) |
| 18   | 22-15-4182             | A-4455-AR 18 A(P909) |                        | A-4455-AZ 18 A(228) | 22-17-5183             | A-4455-AZ 18 B(228) | 22-16-2182             | A-4455-AZ 18 B(228) |
| 19   | 22-15-4192             | A-4455-AR 19 A(P909) |                        | A-4455-AZ 19 A(228) | 22-17-5193             | A-4455-AZ 19 B(228) | 22-16-2192             | A-4455-AZ 19 B(228) |
| 20   | 22-15-4202             | A-4455-AR 20 A(P909) | 22-17-5201             | A-4455-AZ 20 A(228) | 22-17-5203             | A-4455-AZ 20 B(228) | 22-16-2202             | A-4455-AZ 20 B(228) |
| 21   | 22-15-4212             | A-4455-AR 21 A(P909) |                        | A-4455-AZ 21 A(228) | 22-17-5213             | A-4455-AZ 21 B(228) | 22-16-2212             | A-4455-AZ 21 B(228) |
| 22   | 22-15-4222             | A-4455-AR 22 A(P909) |                        | A-4455-AZ 22 A(228) | 22-17-5223             | A-4455-AZ 22 B(228) | 22-16-2222             | A-4455-AZ 22 B(228) |
| 23   | 22-15-4232             | A-4455-AR 23 A(P909) |                        | A-4455-AZ 23 A(228) | 22-17-5233             | A-4455-AZ 23 B(228) | 22-16-2232             | A-4455-AZ 23 B(228) |
| 24   | 22-15-4242             | A-4455-AR 24 A(P909) | 22-17-3247             | A-4455-AZ 24 A(228) | 22-17-5243             | A-4455-AZ 24 B(228) | 22-16-2242             | A-4455-AZ 24 B(228) |
| 25   | 22-15-4252             | A-4455-AR 25 A(P909) |                        | A-4455-AZ 25 A(228) | 22-17-5253             | A-4455-AZ 25 B(228) | 22-16-2252             | A-4455-AZ 25 B(228) |

|                                            |                             |                                                |                                                                 |                                      |
|--------------------------------------------|-----------------------------|------------------------------------------------|-----------------------------------------------------------------|--------------------------------------|
| REV:<br><b>D11</b>                         | <b>ECR/ECN INFORMATION:</b> |                                                | <b>TITLE:</b><br><br><b>KK 100 PCB ASSY<br/>4455 SERIES DWG</b> | <b>SHEET No.</b><br><br><b>- 8 -</b> |
|                                            | EC No.:                     | UCP2013-4795                                   |                                                                 |                                      |
|                                            | DATE:                       | 5/13/2013                                      |                                                                 |                                      |
| <b>DOCUMENT NUMBER:</b><br><b>SDA-4455</b> |                             | <b>CREATED / REVISED BY:</b><br><b>MKIPPER</b> | <b>CHECKED BY:</b><br><b>JBELL</b>                              | <b>APPROVED BY:</b><br><b>FSMITH</b> |



# KK 100 PCB ASSY 2-25 CKT

## 4455 SERIES

|      |              |                              |              |                     |              |                   |              |                   |
|------|--------------|------------------------------|--------------|---------------------|--------------|-------------------|--------------|-------------------|
| Ckts | Assy Proc:   | BOTTOM ENTRY                 | Assy Proc:   | BOTTOM ENTRY        | Assy Proc:   | BOTTOM ENTRY      | Assy Proc:   | BOTTOM ENTRY      |
|      | Hooks Cut:   | NO                           | Hooks Cut:   | NO                  | Hooks Cut:   | NO                | Hooks Cut:   | NO                |
|      | Housing No:  | 4455-N2                      | Housing No:  | 4455-N2             | Housing No:  | 4455-N2           | Housing No:  | 4455-N2           |
|      | Terminal No: | 4316-3B(228)                 | Terminal No: | 4316-3B(231)        | Terminal No: | 4316-3B(228)      | Terminal No: | 6516-3B(228)      |
|      | Dim C:       | 3.35 / .132                  | Dim C:       | 3.35 / .132         | Dim C:       | 3.35 / .132       | Dim C:       | 3.35 / .132       |
|      | Plating:     | 228                          | Plating:     | 231                 | Plating:     | 228               | Plating:     | 228               |
|      | Packaging:   | PK-44646-001                 | Packaging:   | PK-44646-001        | Packaging:   | PK-44646-001      | Packaging:   | PK-44646-001      |
|      | Voids:       | NO                           | Voids:       | NO                  | Voids:       | NO                | Voids:       | NO                |
|      |              |                              |              |                     |              |                   |              |                   |
|      | Material No  | Engineer Number              | Material No  | Engineer Number     | Material No  | Engineer Number   | Material No  | Engineer Number   |
|      | 2            | 22-17-2024 A-4455-BH02D(228) |              | A-4455-BH02D(231)   |              | A-4455-BH02D(228) | 22-17-2027   | A-4455-BH02J(228) |
|      | 3            | 22-17-2034 A-4455-BH03D(228) |              | A-4455-BH 03 D(231) |              | A-4455-BH03D(228) | 22-17-2037   | A-4455-BH03J(228) |
|      | 4            | 22-17-2044 A-4455-BH04D(228) |              | A-4455-BH 04 D(231) |              | A-4455-BH04D(228) | 22-17-2047   | A-4455-BH04J(228) |
|      | 5            | 22-17-2054 A-4455-BH05D(228) |              | A-4455-BH 05 D(231) | 22-17-3056   | A-4455-BH05D(228) | 22-17-2057   | A-4455-BH05J(228) |
|      | 6            | 22-17-2064 A-4455-BH06D(228) |              | A-4455-BH 06 D(231) | 22-17-3066   | A-4455-BH06D(228) | 22-17-2067   | A-4455-BH06J(228) |
|      | 7            | 22-17-2074 A-4455-BH07D(228) |              | A-4455-BH 07 D(231) |              | A-4455-BH07D(228) | 22-17-2077   | A-4455-BH07J(228) |
|      | 8            | 22-17-2084 A-4455-BH08D(228) |              | A-4455-BH 08 D(231) | 22-17-3086   | A-4455-BH08D(228) | 22-17-2087   | A-4455-BH08J(228) |
|      | 9            | 22-17-2094 A-4455-BH09D(228) |              | A-4455-BH 09 D(231) |              | A-4455-BH09D(228) | 22-17-2097   | A-4455-BH09J(228) |
|      | 10           | 22-17-2104 A-4455-BH10D(228) |              | A-4455-BH 10 D(231) |              | A-4455-BH10D(228) | 22-17-2107   | A-4455-BH10J(228) |
|      | 11           | 22-17-2114 A-4455-BH11D(228) |              | A-4455-BH 11 D(231) |              | A-4455-BH11D(228) | 22-17-2117   | A-4455-BH11J(228) |
|      | 12           | 22-17-2124 A-4455-BH12D(228) |              | A-4455-BH 12 D(231) |              | A-4455-BH12D(228) | 22-17-2127   | A-4455-BH12J(228) |
|      | 13           | 22-17-2134 A-4455-BH13D(228) |              | A-4455-BH 13 D(231) |              | A-4455-BH13D(228) | 22-17-2137   | A-4455-BH13J(228) |
|      | 14           | 22-17-2144 A-4455-BH14D(228) | 22-17-2140   | A-4455-BH 14 D(231) | 22-17-3146   | A-4455-BH14D(228) | 22-17-2147   | A-4455-BH14J(228) |
|      | 15           | 22-17-2154 A-4455-BH15D(228) |              | A-4455-BH 15 D(231) |              | A-4455-BH15D(228) | 22-17-2157   | A-4455-BH15J(228) |
|      | 16           | 22-17-2164 A-4455-BH16D(228) |              | A-4455-BH 16 D(231) |              | A-4455-BH16D(228) | 22-17-2167   | A-4455-BH16J(228) |
|      | 17           | 22-17-2174 A-4455-BH17D(228) |              | A-4455-BH 17 D(231) |              | A-4455-BH17D(228) | 22-17-2177   | A-4455-BH17J(228) |
|      | 18           | 22-17-2184 A-4455-BH18D(228) |              | A-4455-BH 18 D(231) |              | A-4455-BH18D(228) | 22-17-2187   | A-4455-BH18J(228) |
|      | 19           | 22-17-2194 A-4455-BH19D(228) |              | A-4455-BH 19 D(231) | 22-17-3196   | A-4455-BH19D(228) | 22-17-2197   | A-4455-BH19J(228) |
|      | 20           | 22-17-2204 A-4455-BH20D(228) | 22-17-2200   | A-4455-BH 20 D(231) | 22-17-3206   | A-4455-BH20D(228) | 22-17-2207   | A-4455-BH20J(228) |
|      | 21           | 22-17-2214 A-4455-BH21D(228) |              | A-4455-BH 21 D(231) |              | A-4455-BH21D(228) | 22-17-2217   | A-4455-BH21J(228) |
|      | 22           | 22-17-2224 A-4455-BH22D(228) |              | A-4455-BH 22 D(231) |              | A-4455-BH22D(228) | 22-17-2227   | A-4455-BH22J(228) |
|      | 23           | 22-17-2234 A-4455-BH23D(228) |              | A-4455-BH 23 D(231) |              | A-4455-BH23D(228) | 22-17-2237   | A-4455-BH23J(228) |
|      | 24           | 22-17-2244 A-4455-BH24D(228) |              | A-4455-BH 24 D(231) |              | A-4455-BH24D(228) | 22-17-2247   | A-4455-BH24J(228) |
|      | 25           | 22-17-2254 A-4455-BH25D(228) | 22-17-2250   | A-4455-BH 25 D(231) | 22-17-3256   | A-4455-BH25D(228) | 22-17-2257   | A-4455-BH25J(228) |

|                  |                       |                                            |               |
|------------------|-----------------------|--------------------------------------------|---------------|
| REV:             | ECR/ECN INFORMATION:  | TITLE:                                     | SHEET No.     |
| <b>D11</b>       | EC No.: UCP2013-4795  | <b>KK 100 PCB ASSY<br/>4455 SERIES DWG</b> | <b>- 9 -</b>  |
|                  | DATE: 5/13/2013       |                                            |               |
| DOCUMENT NUMBER: | CREATED / REVISED BY: | CHECKED BY:                                | APPROVED BY:  |
| <b>SDA-4455</b>  | <b>MKIPPER</b>        | <b>JBELL</b>                               | <b>FSMITH</b> |



# KK 100 PCB ASSY 2-25 CKT

## 4455 SERIES

|      |             | Assy Proc:          | TOP ENTRY    | Assy Proc:          | TOP ENTRY    | Assy Proc:          | TOP ENTRY    | Assy Proc:          | TOP ENTRY    |                     |
|------|-------------|---------------------|--------------|---------------------|--------------|---------------------|--------------|---------------------|--------------|---------------------|
|      |             | Hooks Cut:          | YES          | Hooks Cut:          | YES          | Hooks Cut:          | YES          | Hooks Cut:          | NO           |                     |
|      |             | Housing No:         | 4455-NR      | Housing No:         | 4455-N       | Housing No:         | 4455-N       | Housing No:         | 4455-BN      |                     |
|      |             | Terminal No:        | 4316-4(208)  | Terminal No:        | 4316-4(565)  | Terminal No:        | 4316-4(P909) | Terminal No:        | 4316-4(P909) |                     |
|      |             | Dim C:              | 3.35 / .132  | Dim C:              | 3.35 / .132  | Dim C:              | 3.35 / .132  | Dim C:              | 3.35 / .132  |                     |
|      |             | Plating:            | 208          | Plating:            | 565          | Plating:            | P909         | Plating:            | P909         |                     |
|      |             | Packaging:          | PK-44646-003 | Packaging:          | PK-44646-003 | Packaging:          | PK-44646-003 | Packaging:          | PK-44646-001 |                     |
|      |             | Voids:              | NO           | Voids:              | NO           | Voids:              | NO           | Voids:              | NO           |                     |
|      |             |                     |              |                     |              |                     |              |                     |              |                     |
| Ckts | Material No | Engineer Number     | Material No  | Engineer Number     | Material No  | Engineer Number     | Material No  | Engineer Number     | Material No  | Engineer Number     |
| 2    |             | A-4455-CP02A(208)   | 22-18-2026   | A-4455-CY02A(565)   | 22-02-7023   | A-4455-CY02A(P909)  | 22-15-4028   | A-4455-CB02A(P909)  | 22-15-4028   | A-4455-CB02A(P909)  |
| 3    |             | A-4455-CP 03 A(208) | 22-18-2036   | A-4455-CY 03 A(565) | 22-02-7033   | A-4455-CY 03A(P909) | 22-15-4038   | A-4455-CB 03A(P909) | 22-15-4038   | A-4455-CB 03A(P909) |
| 4    |             | A-4455-CP 04 A(208) | 22-18-2046   | A-4455-CY 04 A(565) | 22-02-7043   | A-4455-CY 04A(P909) | 22-15-4048   | A-4455-CB 04A(P909) | 22-15-4048   | A-4455-CB 04A(P909) |
| 5    | 22-18-2057  | A-4455-CP 05 A(208) | 22-18-2056   | A-4455-CY 05 A(565) | 22-02-7053   | A-4455-CY 05A(P909) | 22-15-4058   | A-4455-CB 05A(P909) | 22-15-4058   | A-4455-CB 05A(P909) |
| 6    |             | A-4455-CP 06 A(208) | 22-18-2066   | A-4455-CY 06 A(565) | 22-02-7063   | A-4455-CY 06A(P909) | 22-15-4068   | A-4455-CB 06A(P909) | 22-15-4068   | A-4455-CB 06A(P909) |
| 7    |             | A-4455-CP 07 A(208) | 22-18-2076   | A-4455-CY 07 A(565) | 22-02-7073   | A-4455-CY 07A(P909) | 22-15-4078   | A-4455-CB 07A(P909) | 22-15-4078   | A-4455-CB 07A(P909) |
| 8    |             | A-4455-CP 08 A(208) | 22-18-2086   | A-4455-CY 08 A(565) | 22-02-7083   | A-4455-CY 08A(P909) | 22-15-4088   | A-4455-CB 08A(P909) | 22-15-4088   | A-4455-CB 08A(P909) |
| 9    |             | A-4455-CP 09 A(208) | 22-18-2096   | A-4455-CY 09 A(565) | 22-02-7093   | A-4455-CY 09A(P909) | 22-15-4098   | A-4455-CB 09A(P909) | 22-15-4098   | A-4455-CB 09A(P909) |
| 10   |             | A-4455-CP 10 A(208) | 22-18-2106   | A-4455-CY 10 A(565) | 22-02-7103   | A-4455-CY 10A(P909) | 22-15-4108   | A-4455-CB 10A(P909) | 22-15-4108   | A-4455-CB 10A(P909) |
| 11   |             | A-4455-CP 11 A(208) | 22-18-2116   | A-4455-CY 11 A(565) | 22-02-7113   | A-4455-CY 11A(P909) | 22-15-4118   | A-4455-CB 11A(P909) | 22-15-4118   | A-4455-CB 11A(P909) |
| 12   |             | A-4455-CP 12 A(208) | 22-18-2126   | A-4455-CY 12 A(565) | 22-02-7123   | A-4455-CY 12A(P909) | 22-15-4128   | A-4455-CB 12A(P909) | 22-15-4128   | A-4455-CB 12A(P909) |
| 13   |             | A-4455-CP 13 A(208) | 22-18-2136   | A-4455-CY 13 A(565) | 22-02-7133   | A-4455-CY 13A(P909) | 22-15-4138   | A-4455-CB 13A(P909) | 22-15-4138   | A-4455-CB 13A(P909) |
| 14   |             | A-4455-CP 14 A(208) | 22-18-2146   | A-4455-CY 14 A(565) | 22-02-7143   | A-4455-CY 14A(P909) | 22-15-4148   | A-4455-CB 14A(P909) | 22-15-4148   | A-4455-CB 14A(P909) |
| 15   |             | A-4455-CP 15 A(208) | 22-18-2156   | A-4455-CY 15 A(565) | 22-02-7153   | A-4455-CY 15A(P909) | 22-15-4158   | A-4455-CB 15A(P909) | 22-15-4158   | A-4455-CB 15A(P909) |
| 16   |             | A-4455-CP 16 A(208) | 22-18-2166   | A-4455-CY 16 A(565) | 22-02-7163   | A-4455-CY 16A(P909) | 22-15-4168   | A-4455-CB 16A(P909) | 22-15-4168   | A-4455-CB 16A(P909) |
| 17   |             | A-4455-CP 17 A(208) | 22-18-2176   | A-4455-CY 17 A(565) | 22-02-7173   | A-4455-CY 17A(P909) | 22-15-4178   | A-4455-CB 17A(P909) | 22-15-4178   | A-4455-CB 17A(P909) |
| 18   |             | A-4455-CP 18 A(208) | 22-18-2186   | A-4455-CY 18 A(565) | 22-02-7183   | A-4455-CY 18A(P909) | 22-15-4188   | A-4455-CB 18A(P909) | 22-15-4188   | A-4455-CB 18A(P909) |
| 19   |             | A-4455-CP 19 A(208) | 22-18-2196   | A-4455-CY 19 A(565) | 22-02-7193   | A-4455-CY 19A(P909) | 22-15-4198   | A-4455-CB 19A(P909) | 22-15-4198   | A-4455-CB 19A(P909) |
| 20   |             | A-4455-CP 20 A(208) | 22-18-2206   | A-4455-CY 20 A(565) | 22-02-7203   | A-4455-CY 20A(P909) | 22-15-4208   | A-4455-CB 20A(P909) | 22-15-4208   | A-4455-CB 20A(P909) |
| 21   |             | A-4455-CP 21 A(208) | 22-18-2216   | A-4455-CY 21 A(565) | 22-02-7213   | A-4455-CY 21A(P909) | 22-15-4218   | A-4455-CB 21A(P909) | 22-15-4218   | A-4455-CB 21A(P909) |
| 22   |             | A-4455-CP 22 A(208) | 22-18-2226   | A-4455-CY 22 A(565) | 22-02-7223   | A-4455-CY 22A(P909) | 22-15-4228   | A-4455-CB 22A(P909) | 22-15-4228   | A-4455-CB 22A(P909) |
| 23   |             | A-4455-CP 23 A(208) | 22-18-2236   | A-4455-CY 23 A(565) | 22-02-7233   | A-4455-CY 23A(P909) | 22-15-4238   | A-4455-CB 23A(P909) | 22-15-4238   | A-4455-CB 23A(P909) |
| 24   |             | A-4455-CP 24 A(208) | 22-18-2246   | A-4455-CY 24 A(565) | 22-02-7243   | A-4455-CY 24A(P909) | 22-15-4248   | A-4455-CB 24A(P909) | 22-15-4248   | A-4455-CB 24A(P909) |
| 25   |             | A-4455-CP 25 A(208) | 22-18-2256   | A-4455-CY 25 A(565) | 22-02-7253   | A-4455-CY 25A(P909) | 22-15-4258   | A-4455-CB 25A(P909) | 22-15-4258   | A-4455-CB 25A(P909) |

|                                                |                                                                                                            |                                                                 |                                        |                                          |                                       |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------|------------------------------------------|---------------------------------------|
| REV:<br><br><b>D11</b>                         | <b>ECR/ECN INFORMATION:</b><br><br><u>EC No.:</u> <b>UCP2013-4795</b><br><br><u>DATE:</u> <b>5/13/2013</b> | <u>TITLE:</u><br><br><b>KK 100 PCB ASSY<br/>4455 SERIES DWG</b> |                                        |                                          | <u>SHEET No.</u><br><br><b>- 10 -</b> |
| <u>DOCUMENT NUMBER:</u><br><br><b>SDA-4455</b> |                                                                                                            | <u>CREATED / REVISED BY:</u><br><br><b>MKIPPER</b>              | <u>CHECKED BY:</u><br><br><b>JBELL</b> | <u>APPROVED BY:</u><br><br><b>FSMITH</b> |                                       |



# KK 100 PCB ASSY 2-25 CKT

## 4455 SERIES

| Ckts | Assy Proc:   |                     | TOP ENTRY    |                     | Assy Proc:   |                     | TOP ENTRY    |                     | Assy Proc:   |                     | TOP ENTRY    |                     | Assy Proc:   |                     | TOP ENTRY    |                     |
|------|--------------|---------------------|--------------|---------------------|--------------|---------------------|--------------|---------------------|--------------|---------------------|--------------|---------------------|--------------|---------------------|--------------|---------------------|
|      | Hooks Cut:   |                     | Hooks Cut:   |                     | Hooks Cut:   |                     | Hooks Cut:   |                     | Hooks Cut:   |                     | Hooks Cut:   |                     | Hooks Cut:   |                     | Hooks Cut:   |                     |
|      | Housing No:  | 4455-NR             | Housing No:  | 4455-N              | Housing No:  | 4455-N              | Housing No:  | 4455-N              | Housing No:  | 4455-N              | Housing No:  | 4455-N              | Housing No:  | 4455-N              | Housing No:  | 4455-N              |
|      | Terminal No: | 4316-4(P909)        | Terminal No: | 6516-4(228)         | Terminal No: | 4316-4(208)         | Terminal No: | 4316-4(208)         | Terminal No: | 6516-4(228)         | Terminal No: | 6516-4(228)         | Terminal No: | 6516-4(228)         | Terminal No: | 6516-4(228)         |
|      | Dim C:       | 3.35 / .132         | Dim C:       | 3.35 / .132         | Dim C:       | 3.35 / .132         | Dim C:       | 3.35 / .132         | Dim C:       | 3.35 / .132         | Dim C:       | 3.35 / .132         | Dim C:       | 3.35 / .132         | Dim C:       | 3.35 / .132         |
|      | Plating:     | P909                | Plating:     | 228                 | Plating:     | 208                 | Plating:     | 208                 | Plating:     | 228                 | Plating:     | 228                 | Plating:     | 228                 | Plating:     | 228                 |
|      | Packaging:   | PK-44646-001        | Packaging:   | PK-44646-001        | Packaging:   | PK-44646-003        | Packaging:   | PK-44646-003        | Packaging:   | PK-44646-003        | Packaging:   | PK-44646-003        | Packaging:   | PK-44646-003        | Packaging:   | PK-44646-003        |
|      | Voids:       | NO                  | Voids:       | NO                  | Voids:       | NO                  | Voids:       | NO                  | Voids:       | NO                  | Voids:       | NO                  | Voids:       | NO                  | Voids:       | NO                  |
|      | Material No  | Engineer Number     | Material No  | Engineer Number     | Material No  | Engineer Number     | Material No  | Engineer Number     | Material No  | Engineer Number     | Material No  | Engineer Number     | Material No  | Engineer Number     | Material No  | Engineer Number     |
| 2    | 22-65-3020   | A-4455-CR02A(P909)  | 22-18-2024   | A-4455-CZ02B(228)   | 22-18-7023   | A-4455-CY02A(208)   | 22-18-7021   | A-4455-CY02B(228)   | 22-18-7031   | A-4455-CY 03 B(228) | 22-18-7041   | A-4455-CY 04 B(228) | 22-18-7051   | A-4455-CY 05 B(228) | 22-18-7061   | A-4455-CY 06 B(228) |
| 3    | 22-65-3030   | A-4455-CR 03A(P909) | 22-18-2034   | A-4455-CZ 03 B(228) | 22-18-7033   | A-4455-CY 03 A(208) | 22-18-7031   | A-4455-CY 03 B(228) | 22-18-7031   | A-4455-CY 03 B(228) | 22-18-7041   | A-4455-CY 04 B(228) | 22-18-7051   | A-4455-CY 05 B(228) | 22-18-7061   | A-4455-CY 06 B(228) |
| 4    | 22-65-3040   | A-4455-CR 04A(P909) | 22-18-2044   | A-4455-CZ 04 B(228) | 22-18-7043   | A-4455-CY 04 A(208) | 22-18-7041   | A-4455-CY 04 B(228) | 22-18-7041   | A-4455-CY 04 B(228) | 22-18-7051   | A-4455-CY 05 B(228) | 22-18-7051   | A-4455-CY 05 B(228) | 22-18-7061   | A-4455-CY 06 B(228) |
| 5    | 22-65-3050   | A-4455-CR 05A(P909) | 22-18-2054   | A-4455-CZ 05 B(228) | 22-18-7053   | A-4455-CY 05 A(208) | 22-18-7051   | A-4455-CY 05 B(228) | 22-18-7051   | A-4455-CY 05 B(228) | 22-18-7061   | A-4455-CY 06 B(228) | 22-18-7061   | A-4455-CY 06 B(228) | 22-18-7071   | A-4455-CY 07 B(228) |
| 6    | 22-65-3060   | A-4455-CR 06A(P909) | 22-18-2064   | A-4455-CZ 06 B(228) | 22-18-7063   | A-4455-CY 06 A(208) | 22-18-7061   | A-4455-CY 06 B(228) | 22-18-7061   | A-4455-CY 06 B(228) | 22-18-7071   | A-4455-CY 07 B(228) | 22-18-7071   | A-4455-CY 07 B(228) | 22-18-7081   | A-4455-CY 08 B(228) |
| 7    | 22-65-3070   | A-4455-CR 07A(P909) | 22-18-2074   | A-4455-CZ 07 B(228) | 22-18-7073   | A-4455-CY 07 A(208) | 22-18-7071   | A-4455-CY 07 B(228) | 22-18-7071   | A-4455-CY 07 B(228) | 22-18-7081   | A-4455-CY 08 B(228) | 22-18-7081   | A-4455-CY 08 B(228) | 22-18-7091   | A-4455-CY 09 B(228) |
| 8    | 22-65-3080   | A-4455-CR 08A(P909) | 22-18-2084   | A-4455-CZ 08 B(228) | 22-18-7083   | A-4455-CY 08 A(208) | 22-18-7081   | A-4455-CY 08 B(228) | 22-18-7081   | A-4455-CY 08 B(228) | 22-18-7091   | A-4455-CY 09 B(228) | 22-18-7091   | A-4455-CY 09 B(228) | 22-18-7101   | A-4455-CY 10 B(228) |
| 9    | 22-65-3090   | A-4455-CR 09A(P909) | 22-18-2094   | A-4455-CZ 09 B(228) | 22-18-7093   | A-4455-CY 09 A(208) | 22-18-7091   | A-4455-CY 09 B(228) | 22-18-7091   | A-4455-CY 09 B(228) | 22-18-7101   | A-4455-CY 10 B(228) | 22-18-7101   | A-4455-CY 10 B(228) | 22-18-7111   | A-4455-CY 11 B(228) |
| 10   | 22-65-3100   | A-4455-CR 10A(P909) | 22-18-2104   | A-4455-CZ 10 B(228) | 22-18-7103   | A-4455-CY 10 A(208) | 22-18-7101   | A-4455-CY 10 B(228) | 22-18-7101   | A-4455-CY 10 B(228) | 22-18-7111   | A-4455-CY 11 B(228) | 22-18-7111   | A-4455-CY 11 B(228) | 22-18-7121   | A-4455-CY 12 B(228) |
| 11   | 22-65-3110   | A-4455-CR 11A(P909) | 22-18-2114   | A-4455-CZ 11 B(228) | 22-18-7113   | A-4455-CY 11 A(208) | 22-18-7111   | A-4455-CY 11 B(228) | 22-18-7111   | A-4455-CY 11 B(228) | 22-18-7121   | A-4455-CY 12 B(228) | 22-18-7121   | A-4455-CY 12 B(228) | 22-18-7131   | A-4455-CY 13 B(228) |
| 12   | 22-65-3120   | A-4455-CR 12A(P909) | 22-18-2124   | A-4455-CZ 12 B(228) | 22-18-7123   | A-4455-CY 12 A(208) | 22-18-7121   | A-4455-CY 12 B(228) | 22-18-7121   | A-4455-CY 12 B(228) | 22-18-7131   | A-4455-CY 13 B(228) | 22-18-7131   | A-4455-CY 13 B(228) | 22-18-7141   | A-4455-CY 14 B(228) |
| 13   | 22-65-3130   | A-4455-CR 13A(P909) | 22-18-2134   | A-4455-CZ 13 B(228) | 22-18-7133   | A-4455-CY 13 A(208) | 22-18-7131   | A-4455-CY 13 B(228) | 22-18-7131   | A-4455-CY 13 B(228) | 22-18-7141   | A-4455-CY 14 B(228) | 22-18-7141   | A-4455-CY 14 B(228) | 22-18-7151   | A-4455-CY 15 B(228) |
| 14   | 22-65-3140   | A-4455-CR 14A(P909) | 22-18-2144   | A-4455-CZ 14 B(228) | 22-18-7143   | A-4455-CY 14 A(208) | 22-18-7141   | A-4455-CY 14 B(228) | 22-18-7141   | A-4455-CY 14 B(228) | 22-18-7151   | A-4455-CY 15 B(228) | 22-18-7151   | A-4455-CY 15 B(228) | 22-18-7161   | A-4455-CY 16 B(228) |
| 15   | 22-65-3150   | A-4455-CR 15A(P909) | 22-18-2154   | A-4455-CZ 15 B(228) | 22-18-7153   | A-4455-CY 15 A(208) | 22-18-7151   | A-4455-CY 15 B(228) | 22-18-7151   | A-4455-CY 15 B(228) | 22-18-7161   | A-4455-CY 16 B(228) | 22-18-7161   | A-4455-CY 16 B(228) | 22-18-7171   | A-4455-CY 17 B(228) |
| 16   | 22-65-3160   | A-4455-CR 16A(P909) | 22-18-2164   | A-4455-CZ 16 B(228) | 22-18-7163   | A-4455-CY 16 A(208) | 22-18-7161   | A-4455-CY 16 B(228) | 22-18-7161   | A-4455-CY 16 B(228) | 22-18-7171   | A-4455-CY 17 B(228) | 22-18-7171   | A-4455-CY 17 B(228) | 22-18-7181   | A-4455-CY 18 B(228) |
| 17   | 22-65-3170   | A-4455-CR 17A(P909) | 22-18-2174   | A-4455-CZ 17 B(228) | 22-18-7173   | A-4455-CY 17 A(208) | 22-18-7171   | A-4455-CY 17 B(228) | 22-18-7171   | A-4455-CY 17 B(228) | 22-18-7181   | A-4455-CY 18 B(228) | 22-18-7181   | A-4455-CY 18 B(228) | 22-18-7191   | A-4455-CY 19 B(228) |
| 18   | 22-65-3180   | A-4455-CR 18A(P909) | 22-18-2184   | A-4455-CZ 18 B(228) | 22-18-7183   | A-4455-CY 18 A(208) | 22-18-7181   | A-4455-CY 18 B(228) | 22-18-7181   | A-4455-CY 18 B(228) | 22-18-7191   | A-4455-CY 19 B(228) | 22-18-7191   | A-4455-CY 19 B(228) | 22-18-7201   | A-4455-CY 20 B(228) |
| 19   | 22-65-3190   | A-4455-CR 19A(P909) | 22-18-2194   | A-4455-CZ 19 B(228) | 22-18-7193   | A-4455-CY 19 A(208) | 22-18-7191   | A-4455-CY 19 B(228) | 22-18-7191   | A-4455-CY 19 B(228) | 22-18-7201   | A-4455-CY 20 B(228) | 22-18-7201   | A-4455-CY 20 B(228) | 22-18-7211   | A-4455-CY 21 B(228) |
| 20   | 22-65-3200   | A-4455-CR 20A(P909) | 22-18-2204   | A-4455-CZ 20 B(228) | 22-18-7203   | A-4455-CY 20 A(208) | 22-18-7201   | A-4455-CY 20 B(228) | 22-18-7201   | A-4455-CY 20 B(228) | 22-18-7211   | A-4455-CY 21 B(228) | 22-18-7211   | A-4455-CY 21 B(228) | 22-18-7221   | A-4455-CY 22 B(228) |
| 21   | 22-65-3210   | A-4455-CR 21A(P909) | 22-18-2214   | A-4455-CZ 21 B(228) | 22-18-7213   | A-4455-CY 21 A(208) | 22-18-7211   | A-4455-CY 21 B(228) | 22-18-7211   | A-4455-CY 21 B(228) | 22-18-7221   | A-4455-CY 22 B(228) | 22-18-7221   | A-4455-CY 22 B(228) | 22-18-7231   | A-4455-CY 23 B(228) |
| 22   | 22-65-3220   | A-4455-CR 22A(P909) | 22-18-2224   | A-4455-CZ 22 B(228) | 22-18-7223   | A-4455-CY 22 A(208) | 22-18-7221   | A-4455-CY 22 B(228) | 22-18-7221   | A-4455-CY 22 B(228) | 22-18-7231   | A-4455-CY 23 B(228) | 22-18-7231   | A-4455-CY 23 B(228) | 22-18-7241   | A-4455-CY 24 B(228) |
| 23   | 22-65-3230   | A-4455-CR 23A(P909) | 22-18-2234   | A-4455-CZ 23 B(228) | 22-18-7233   | A-4455-CY 23 A(208) | 22-18-7231   | A-4455-CY 23 B(228) | 22-18-7231   | A-4455-CY 23 B(228) | 22-18-7241   | A-4455-CY 24 B(228) | 22-18-7241   | A-4455-CY 24 B(228) | 22-18-7251   | A-4455-CY 25 B(228) |
| 24   | 22-65-3240   | A-4455-CR 24A(P909) | 22-18-2244   | A-4455-CZ 24 B(228) | 22-18-7243   | A-4455-CY 24 A(208) | 22-18-7241   | A-4455-CY 24 B(228) | 22-18-7241   | A-4455-CY 24 B(228) | 22-18-7251   | A-4455-CY 25 B(228) | 22-18-7251   | A-4455-CY 25 B(228) | 22-18-7251   | A-4455-CY 25 B(228) |
| 25   | 22-65-3250   | A-4455-CR 25A(P909) | 22-18-2254   | A-4455-CZ 25 B(228) | 22-18-7253   | A-4455-CY 25 A(208) | 22-18-7251   | A-4455-CY 25 B(228) | 22-18-7251   | A-4455-CY 25 B(228) | 22-18-7251   | A-4455-CY 25 B(228) | 22-18-7251   | A-4455-CY 25 B(228) | 22-18-7251   | A-4455-CY 25 B(228) |

|                                                |                                                                                                     |                                                                 |                                        |                                          |                                       |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------|------------------------------------------|---------------------------------------|
| REV:<br><br><b>D11</b>                         | ECR/ECN INFORMATION:<br><br><u>EC No.:</u> <b>UCP2013-4795</b><br><br><u>DATE:</u> <b>5/13/2013</b> | <u>TITLE:</u><br><br><b>KK 100 PCB ASSY<br/>4455 SERIES DWG</b> |                                        |                                          | <u>SHEET No.</u><br><br><b>- 11 -</b> |
| <u>DOCUMENT NUMBER:</u><br><br><b>SDA-4455</b> |                                                                                                     | <u>CREATED / REVISED BY:</u><br><br><b>MKIPPER</b>              | <u>CHECKED BY:</u><br><br><b>JBELL</b> | <u>APPROVED BY:</u><br><br><b>FSMITH</b> |                                       |



# KK 100 PCB ASSY 2-25 CKT

## 4455 SERIES

|      |              |                     |              |                     |              |                      |              |                     |
|------|--------------|---------------------|--------------|---------------------|--------------|----------------------|--------------|---------------------|
|      | Assy Proc:   | RIGHT ANGLE         | Assy Proc:   | BOTTOM ENTRY        | Assy Proc:   | RIGHT ANGLE          | Assy Proc:   | RIGHT ANGLE         |
|      | Hooks Cut:   | NO                  | Hooks Cut:   | NO                  | Hooks Cut:   | NO                   | Hooks Cut:   | NO                  |
|      | Housing No:  | 4455-N              | Housing No:  | 4455-N2             | Housing No:  | 4455-AN              | Housing No:  | 4455-AN             |
|      | Terminal No: | 6516-5C(P909)       | Terminal No: | 6516-6C(P909)       | Terminal No: | 6516-4(P909)         | Terminal No: | 4316-4(565)         |
|      | Dim C:       | 3.35±1.00/.132±.039 | Dim C:       | 3.61±1.00/.142±.039 | Dim C:       | 3.35 / .132          | Dim C:       | 3.35 / .132         |
|      | Plating:     | P909                | Plating:     | P909                | Plating:     | P909                 | Plating:     | 565                 |
|      | Packaging:   | PK-44646-001        | Packaging:   | PK-44646-001        | Packaging:   | PK-44646-001         | Packaging:   | PK-44646-001        |
|      | Voids:       | NO                  | Voids:       | NO                  | Voids:       | NO                   | Voids:       | NO                  |
|      |              |                     |              |                     |              |                      |              |                     |
| Ckts | Material No  | Engineer Number     | Material No  | Engineer Number     | Material No  | Engineer Number      | Material No  | Engineer Number     |
| 2    | 38-00-1332   | A-4455-AZ02C(P909)  | 38-00-1392   | A-4455-BH02F(P909)  |              |                      |              |                     |
| 3    | 38-00-1333   | A-4455-AZ03C(P909)  | 38-00-1393   | A-4455-BH03F(P909)  |              |                      |              |                     |
| 4    | 38-00-1334   | A-4455-AZ04C(P909)  | 38-00-1394   | A-4455-BH04F(P909)  |              |                      |              |                     |
| 5    | 38-00-1335   | A-4455-AZ05C(P909)  | 38-00-1395   | A-4455-BH05F(P909)  |              |                      |              |                     |
| 6    | 38-00-1336   | A-4455-AZ06C(P909)  | 38-00-1396   | A-4455-BH06F(P909)  |              |                      |              |                     |
| 7    | 38-00-1337   | A-4455-AZ07C(P909)  | 38-00-1397   | A-4455-BH07F(P909)  | 22-14-2079   | A-4455-AA07B(P909)   | 22-14-2077   | A-4455-AA07A(565)   |
| 8    | 38-00-1338   | A-4455-AZ08C(P909)  | 38-00-1398   | A-4455-BH08F(P909)  | 22-14-2089   | A-4455-AA 08 B(P909) | 22-14-2087   | A-4455-AA 08 A(565) |
| 9    | 38-00-1339   | A-4455-AZ09C(P909)  | 38-00-1399   | A-4455-BH09F(P909)  | 22-14-2099   | A-4455-AA 09 B(P909) | 22-14-2097   | A-4455-AA 09 A(565) |
| 10   | 38-00-1340   | A-4455-AZ10C(P909)  | 38-00-1400   | A-4455-BH10F(P909)  | 22-14-2109   | A-4455-AA 10 B(P909) | 22-14-2107   | A-4455-AA 10 A(565) |
| 11   | 38-00-1341   | A-4455-AZ11C(P909)  | 38-00-1401   | A-4455-BH11F(P909)  | 22-14-2119   | A-4455-AA 11 B(P909) | 22-14-2117   | A-4455-AA 11 A(565) |
| 12   | 38-00-1342   | A-4455-AZ12C(P909)  | 38-00-1402   | A-4455-BH12F(P909)  | 22-14-2129   | A-4455-AA 12 B(P909) | 22-14-2127   | A-4455-AA 12 A(565) |
| 13   | 38-00-1343   | A-4455-AZ13C(P909)  | 38-00-1403   | A-4455-BH13F(P909)  | 22-14-2139   | A-4455-AA 13 B(P909) | 22-14-2137   | A-4455-AA 13 A(565) |
| 14   | 38-00-1344   | A-4455-AZ14C(P909)  | 38-00-1404   | A-4455-BH14F(P909)  | 22-14-2149   | A-4455-AA 14 B(P909) | 22-14-2147   | A-4455-AA 14 A(565) |
| 15   | 38-00-1345   | A-4455-AZ15C(P909)  | 38-00-1405   | A-4455-BH15F(P909)  | 22-14-2159   | A-4455-AA 15 B(P909) | 22-14-2157   | A-4455-AA 15 A(565) |
| 16   | 38-00-1346   | A-4455-AZ16C(P909)  | 38-00-1406   | A-4455-BH16F(P909)  | 22-14-2169   | A-4455-AA 16 B(P909) | 22-14-2167   | A-4455-AA 16 A(565) |
| 17   | 38-00-1347   | A-4455-AZ17C(P909)  | 38-00-1407   | A-4455-BH17F(P909)  | 22-14-2179   | A-4455-AA 17 B(P909) | 22-14-2177   | A-4455-AA 17 A(565) |
| 18   | 38-00-1348   | A-4455-AZ18C(P909)  | 38-00-1408   | A-4455-BH18F(P909)  | 22-14-2189   | A-4455-AA 18 B(P909) | 22-14-2187   | A-4455-AA 18 A(565) |
| 19   | 38-00-1349   | A-4455-AZ19C(P909)  | 38-00-1409   | A-4455-BH19F(P909)  | 22-14-2199   | A-4455-AA 19 B(P909) | 22-14-2197   | A-4455-AA 19 A(565) |
| 20   | 38-00-1350   | A-4455-AZ20C(P909)  | 38-00-1410   | A-4455-BH20F(P909)  | 22-14-2209   | A-4455-AA 20 B(P909) | 22-14-2207   | A-4455-AA 20 A(565) |
| 21   | 38-00-1351   | A-4455-AZ21C(P909)  | 38-00-1411   | A-4455-BH21F(P909)  | 22-14-2219   | A-4455-AA 21 B(P909) | 22-14-2217   | A-4455-AA 21 A(565) |
| 22   | 38-00-1352   | A-4455-AZ22C(P909)  | 38-00-1412   | A-4455-BH22F(P909)  | 22-14-2229   | A-4455-AA 22 B(P909) | 22-14-2227   | A-4455-AA 22 A(565) |
| 23   | 38-00-1353   | A-4455-AZ23C(P909)  | 38-00-1413   | A-4455-BH23F(P909)  | 22-14-2239   | A-4455-AA 23 B(P909) | 22-14-2237   | A-4455-AA 23 A(565) |
| 24   | 38-00-1354   | A-4455-AZ24C(P909)  | 38-00-1414   | A-4455-BH24F(P909)  | 22-14-2249   | A-4455-AA 24 B(P909) | 22-14-2247   | A-4455-AA 24 A(565) |
| 25   | 38-00-1355   | A-4455-AZ25C(P909)  | 38-00-1415   | A-4455-BH25F(P909)  | 22-14-2259   | A-4455-AA 25 B(P909) | 22-14-2257   | A-4455-AA 25 A(565) |

|                  |                       |                                            |               |
|------------------|-----------------------|--------------------------------------------|---------------|
| REV:             | ECR/ECN INFORMATION:  | TITLE:                                     | SHEET No.     |
| <b>D11</b>       | EC No.: UCP2013-4795  | <b>KK 100 PCB ASSY<br/>4455 SERIES DWG</b> | <b>- 12 -</b> |
|                  | DATE: 5/13/2013       |                                            |               |
| DOCUMENT NUMBER: | CREATED / REVISED BY: | CHECKED BY:                                | APPROVED BY:  |
| <b>SDA-4455</b>  | <b>MKIPPER</b>        | <b>JBELL</b>                               | <b>FSMITH</b> |



# KK 100 PCB ASSY 2-25 CKT

## 4455 SERIES

|      |              |                      |              |                     |              |                     |              |                      |
|------|--------------|----------------------|--------------|---------------------|--------------|---------------------|--------------|----------------------|
|      | Assy Proc:   | RIGHT ANGLE          | Assy Proc:   | RIGHT ANGLE         | Assy Proc:   | TOP ENTRY           | Assy Proc:   | TOP ENTRY            |
|      | Hooks Cut:   | NO                   | Hooks Cut:   | NO                  | Hooks Cut:   | NO                  | Hooks Cut:   | YES                  |
|      | Housing No:  | 4455-AN              | Housing No:  | 4455-BN             | Housing No:  | 4455-N              | Housing No:  | 4455-N-02            |
|      | Terminal No: | 4316-4A(P909)        | Terminal No: | 4316-4(565)         | Terminal No: | 6516-5C(P909)       | Terminal No: | 4316-4(P909)         |
|      | Dim C:       | 3.35 / .132          | Dim C:       | 3.35 / .132         | Dim C:       | 3.35±1.00/.132±.039 | Dim C:       | 3.35 / .132          |
|      | Plating:     | P909                 | Plating:     | 565                 | Plating:     | P909                | Plating:     | P909                 |
|      | Packaging:   | PK-44646-001         | Packaging:   | PK-44646-001        | Packaging:   | PK-44646-001        | Packaging:   | PK-44646-003         |
|      | Voids:       | NO                   | Voids:       | NO                  | Voids:       | NO                  | Voids:       | YES IN CKT 2         |
|      |              |                      |              |                     |              |                     |              |                      |
| Ckts | Material No  | Engineer Number      | Material No  | Engineer Number     | Material No  | Engineer Number     | Material No  | Engineer Number      |
| 2    |              |                      | 22-16-3028   | A-4455-AB02A(565)   | 38-00-1422   | A-4455-CZ02C(P909)  |              |                      |
| 3    |              |                      | 22-16-3038   | A-4455-AB 03 A(565) | 38-00-1423   | A-4455-CZ03C(P909)  |              |                      |
| 4    |              |                      | 22-16-3048   | A-4455-AB 04 A(565) | 38-00-1424   | A-4455-CZ04C(P909)  |              |                      |
| 5    |              |                      | 22-16-3058   | A-4455-AB 05 A(565) | 38-00-1425   | A-4455-CZ05C(P909)  |              |                      |
| 6    |              |                      | 22-16-3068   | A-4455-AB 06 A(565) | 38-00-1426   | A-4455-CZ06C(P909)  | 22-02-3068   | A-4455-CW06A(P909)-2 |
| 7    | 22-14-3617   | A-4455-AA07T(P909)   | 22-16-3078   | A-4455-AB 07 A(565) | 38-00-1427   | A-4455-CZ07C(P909)  | 50-29-0004   | A-4455-CW07A(P909)-2 |
| 8    | 22-14-3618   | A-4455-AA 08 T(P909) | 22-16-3088   | A-4455-AB 08 A(565) | 38-00-1428   | A-4455-CZ08C(P909)  |              |                      |
| 9    | 22-14-3619   | A-4455-AA 09 T(P909) | 22-16-3098   | A-4455-AB 09 A(565) | 38-00-1429   | A-4455-CZ09C(P909)  |              |                      |
| 10   | 22-14-3711   | A-4455-AA 10 T(P909) | 22-16-3108   | A-4455-AB 10 A(565) | 38-00-1430   | A-4455-CZ10C(P909)  |              |                      |
| 11   | 22-14-3712   | A-4455-AA 11 T(P909) | 22-16-3118   | A-4455-AB 11 A(565) | 38-00-1431   | A-4455-CZ11C(P909)  |              |                      |
| 12   | 22-14-3713   | A-4455-AA 12 T(P909) | 22-16-3128   | A-4455-AB 12 A(565) | 38-00-1432   | A-4455-CZ12C(P909)  |              |                      |
| 13   | 22-14-3714   | A-4455-AA 13 T(P909) | 22-16-3138   | A-4455-AB 13 A(565) | 38-00-1433   | A-4455-CZ13C(P909)  |              |                      |
| 14   | 22-14-3715   | A-4455-AA 14 T(P909) | 22-16-3148   | A-4455-AB 14 A(565) | 38-00-1434   | A-4455-CZ14C(P909)  |              |                      |
| 15   | 22-14-3716   | A-4455-AA 15 T(P909) | 22-16-3158   | A-4455-AB 15 A(565) | 38-00-1435   | A-4455-CZ15C(P909)  |              |                      |
| 16   | 22-14-3717   | A-4455-AA 16 T(P909) | 22-16-3168   | A-4455-AB 16 A(565) | 38-00-1436   | A-4455-CZ16C(P909)  |              |                      |
| 17   | 22-14-3718   | A-4455-AA 17 T(P909) | 22-16-3178   | A-4455-AB 17 A(565) | 38-00-1437   | A-4455-CZ17C(P909)  |              |                      |
| 18   | 22-14-3719   | A-4455-AA 18 T(P909) | 22-16-3188   | A-4455-AB 18 A(565) | 38-00-1438   | A-4455-CZ18C(P909)  |              |                      |
| 19   | 22-14-3811   | A-4455-AA 19 T(P909) | 22-16-3198   | A-4455-AB 19 A(565) | 38-00-1439   | A-4455-CZ19C(P909)  |              |                      |
| 20   | 22-14-3812   | A-4455-AA 20 T(P909) | 22-16-3208   | A-4455-AB 20 A(565) | 38-00-1440   | A-4455-CZ20C(P909)  |              |                      |
| 21   | 22-14-3813   | A-4455-AA 21 T(P909) | 22-16-3218   | A-4455-AB 21 A(565) | 38-00-1441   | A-4455-CZ21C(P909)  |              |                      |
| 22   | 22-14-3814   | A-4455-AA 22 T(P909) | 22-16-3228   | A-4455-AB 22 A(565) | 38-00-1442   | A-4455-CZ22C(P909)  |              |                      |
| 23   | 22-14-3815   | A-4455-AA 23 T(P909) | 22-16-3238   | A-4455-AB 23 A(565) | 38-00-1443   | A-4455-CZ23C(P909)  |              |                      |
| 24   | 22-14-3816   | A-4455-AA 24 T(P909) | 22-16-3248   | A-4455-AB 24 A(565) | 38-00-1444   | A-4455-CZ24C(P909)  |              |                      |
| 25   | 22-14-3817   | A-4455-AA 25 T(P909) | 22-16-3258   | A-4455-AB 25 A(565) | 38-00-1445   | A-4455-CZ25C(P909)  |              |                      |

|                  |                       |                 |              |
|------------------|-----------------------|-----------------|--------------|
| REV:             | ECR/ECN INFORMATION:  | TITLE:          | SHEET No.    |
| D11              | EC No.: UCP2013-4795  | KK 100 PCB ASSY | - 13 -       |
|                  | DATE: 5/13/2013       | 4455 SERIES DWG |              |
| DOCUMENT NUMBER: | CREATED / REVISED BY: | CHECKED BY:     | APPROVED BY: |
| SDA-4455         | MKIPPER               | JBELL           | FSMITH       |



# KK 100 PCB ASSY 2-25 CKT

## 4455 SERIES

|      | Assy Proc:   |                     | TOP ENTRY    |  | Assy Proc:   |                      | TOP ENTRY    |  | Assy Proc:   |                       | BOTTOM ENTRY  |  | Assy Proc:   |                      | BOTTOM ENTRY         |  |
|------|--------------|---------------------|--------------|--|--------------|----------------------|--------------|--|--------------|-----------------------|---------------|--|--------------|----------------------|----------------------|--|
|      | Hooks Cut:   |                     | YES          |  | Hooks Cut:   |                      | YES          |  | Hooks Cut:   |                       | NO            |  | Hooks Cut:   |                      | NO                   |  |
|      | Housing No:  |                     | 4455-N       |  | Housing No:  |                      | 4455-N       |  | Housing No:  |                       | 4455-N2       |  | Housing No:  |                      | 4455-N2              |  |
|      | Terminal No: |                     | 6516-4(P909) |  | Terminal No: |                      | 4316-4(P909) |  | Terminal No: |                       | 4316-3B(P909) |  | Terminal No: |                      | 4316-3B(208)         |  |
|      | Dim C:       |                     | 3.35 / .132  |  | Dim C:       |                      | 3.35 / .132  |  | Dim C:       |                       | .132 / 3.35   |  | Dim C:       |                      | .132 / 3.35          |  |
|      | Plating:     |                     | P909         |  | Plating:     |                      | P909         |  | Plating:     |                       | P909          |  | Plating:     |                      | 208                  |  |
|      | Packaging:   |                     | PK-44646-003 |  | Packaging:   |                      | PK-44646-003 |  | Packaging:   |                       | PK-44646-001  |  | Packaging:   |                      | PK-44646-001         |  |
|      | Voids:       |                     | NO           |  | Voids:       |                      | YES IN CKT 2 |  | Voids:       |                       | YES IN CKT 10 |  | Voids:       |                      | 2,3,4,6,7,8,10,11,12 |  |
| Ckts | Material No  | Engineer Number     |              |  | Material No  | Engineer Number      |              |  | Material No  | Engineer Number       |               |  | Material No  | Engineer Number      |                      |  |
| 2    |              | A-4455-CY02B(P909)  |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 3    |              | A-4455-CY 03B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 4    |              | A-4455-CY 04B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 5    | 50-29-1553   | A-4455-CY 05B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 6    | 50-29-1554   | A-4455-CY 06B(P909) |              |  | 22-15-5065   | A-4455-CY06A(P909)-2 |              |  |              |                       |               |  |              |                      |                      |  |
| 7    |              | A-4455-CY 07B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 8    |              | A-4455-CY 08B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 9    |              | A-4455-CY 09B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 10   |              | A-4455-CY 10B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 11   |              | A-4455-CY 11B(P909) |              |  |              |                      |              |  | 50-36-1881   | A-4455-BH11D(P909)-10 |               |  |              |                      |                      |  |
| 12   |              | A-4455-CY 12B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 13   |              | A-4455-CY 13B(P909) |              |  |              |                      |              |  |              |                       |               |  | 26-01-3099   | A-4455-BH13D(208)-51 |                      |  |
| 14   |              | A-4455-CY 14B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 15   |              | A-4455-CY 15B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 16   |              | A-4455-CY 16B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 17   |              | A-4455-CY 17B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 18   |              | A-4455-CY 18B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 19   |              | A-4455-CY 19B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 20   |              | A-4455-CY 20B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 21   |              | A-4455-CY 21B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 22   |              | A-4455-CY 22B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 23   |              | A-4455-CY 23B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 24   |              | A-4455-CY 24B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |
| 25   |              | A-4455-CY 25B(P909) |              |  |              |                      |              |  |              |                       |               |  |              |                      |                      |  |

| REV:             | ECR/ECN INFORMATION: |                       | TITLE:                             | SHEET No.    |
|------------------|----------------------|-----------------------|------------------------------------|--------------|
|                  | EC No.:              | DATE:                 |                                    |              |
| D11              | UCP2013-4795         | 5/13/2013             | KK 100 PCB ASSY<br>4455 SERIES DWG | - 14 -       |
| DOCUMENT NUMBER: |                      | CREATED / REVISED BY: | CHECKED BY:                        | APPROVED BY: |
| SDA-4455         |                      | MKIPPER               | JBELL                              | FSMITH       |



# KK 100 PCB ASSY 2-25 CKT

## 4455 SERIES

|      |              |                 |                       |                    |              |                     |              |                 |
|------|--------------|-----------------|-----------------------|--------------------|--------------|---------------------|--------------|-----------------|
| Ckts | Assy Proc:   | RIGHT ANGLE     | Assy Proc:            | TOP ENTRY          | Assy Proc:   | TOP ENTRY           | Assy Proc:   |                 |
|      | Hooks Cut:   | NO              | Hooks Cut:            | YES                | Hooks Cut:   | YES                 | Hooks Cut:   |                 |
|      | Housing No:  | 4455-BN         | Housing No:           | 4455-BN            | Housing No:  | 4455-NR             | Housing No:  |                 |
|      | Terminal No: | 4316-4(P909)    | Terminal No:          | 4316-4(P909)       | Terminal No: | 4316-4(P909)        | Terminal No: |                 |
|      | Dim C:       | 3.35 / .132     | Dim C:                | 3.35 / .132        | Dim C:       | 3.35 / .132         | Dim C:       |                 |
|      | Plating:     | P909            | Plating:              | P909               | Plating:     | P909                | Plating:     |                 |
|      | Packaging:   | PK-44646-001    | Packaging:            | PK-44646-001       | Packaging:   | PK-44646-003        | Packaging:   |                 |
|      | Voids:       | 3,6,12,15       | Voids:                | NO                 | Voids:       | NO                  | Voids:       |                 |
|      |              |                 |                       |                    |              |                     |              |                 |
|      | Material No  | Engineer Number | Material No           | Engineer Number    | Material No  | Engineer Number     | Material No  | Engineer Number |
|      | 2            |                 |                       |                    |              |                     |              |                 |
|      | 3            |                 | 46999-0585            | A-4455-CG03A(P909) |              |                     |              |                 |
|      | 4            |                 | 46999-0583            | A-4455-CG04A(P909) |              |                     |              |                 |
|      | 5            |                 |                       |                    |              |                     |              |                 |
|      | 6            |                 | 46999-0584            | A-4455-CG06A(P909) |              |                     |              |                 |
|      | 7            |                 |                       |                    |              |                     |              |                 |
|      | 8            |                 |                       |                    | 46999-0599   | A-4455-CP 08A(P909) |              |                 |
|      | 9            |                 |                       |                    |              |                     |              |                 |
|      | 10           |                 |                       |                    |              |                     |              |                 |
|      | 11           |                 |                       |                    |              |                     |              |                 |
|      | 12           |                 |                       |                    |              |                     |              |                 |
|      | 13           |                 |                       |                    |              |                     |              |                 |
|      | 14           |                 | 46999-0586            | A-4455-CG14A(P909) |              |                     |              |                 |
|      | 15           |                 |                       |                    |              |                     |              |                 |
|      | 16           |                 |                       |                    |              |                     |              |                 |
|      | 17           | 46999-0582      | A-4455-AB17A(P909)-51 |                    |              |                     |              |                 |
|      | 18           |                 |                       |                    |              |                     |              |                 |
|      | 19           |                 |                       |                    |              |                     |              |                 |
|      | 20           |                 |                       |                    |              |                     |              |                 |
|      | 21           |                 |                       |                    |              |                     |              |                 |
|      | 22           |                 |                       |                    |              |                     |              |                 |
|      | 23           |                 |                       |                    |              |                     |              |                 |
|      | 24           |                 |                       |                    |              |                     |              |                 |
|      | 25           |                 |                       |                    |              |                     |              |                 |

|                  |                       |                                    |               |
|------------------|-----------------------|------------------------------------|---------------|
| REV:             | ECR/ECN INFORMATION:  | TITLE:                             | SHEET No.     |
| <b>D11</b>       | EC No.: UCP2013-4795  | KK 100 PCB ASSY<br>4455 SERIES DWG | - 15 -        |
|                  | DATE: 5/13/2013       |                                    |               |
| DOCUMENT NUMBER: | CREATED / REVISED BY: | CHECKED BY:                        | APPROVED BY:  |
| <b>SDA-4455</b>  | <b>MKIPPER</b>        | <b>JBELL</b>                       | <b>FSMITH</b> |