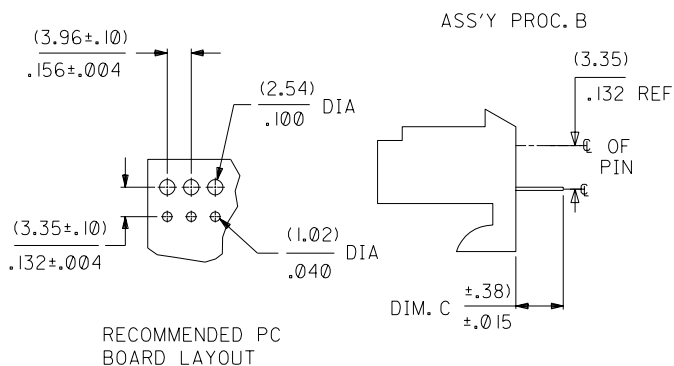
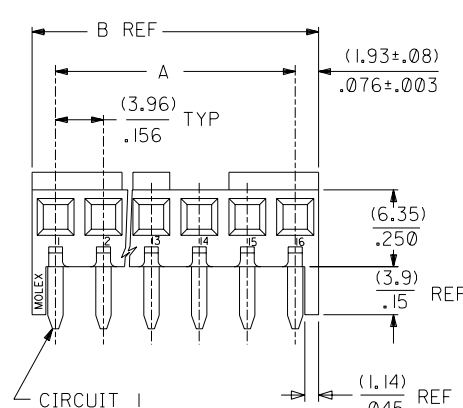
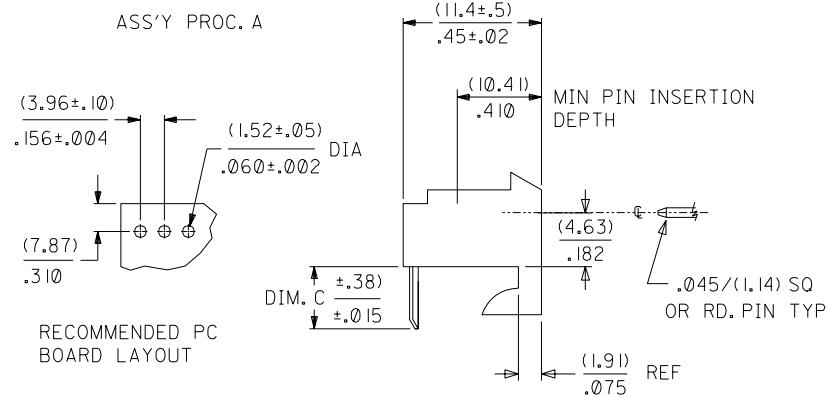
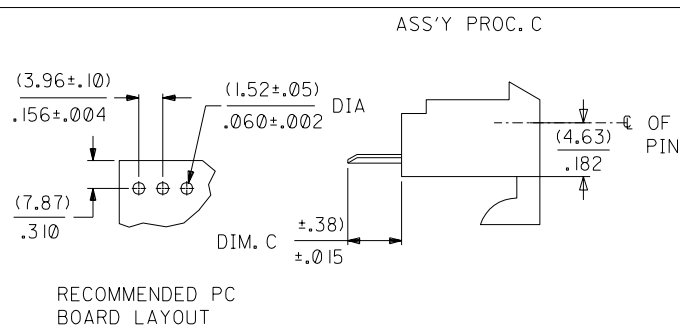


SEE SHEET 3 FOR PART NUMBER LEGEND

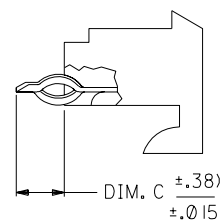


## NOTES:

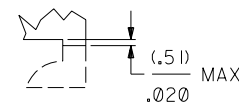
1. TERMINALS MUST CONFORM TO SOLDERABILITY SPEC. ES-152.
2. PARTS CONFORM TO PRODUCT SPEC 08-50.
3. HOUSING MATERIAL: NYLON, UL LISTED
6. FOR KINKED PIN INFORMATION SEE SMES-42329-\*\*\*.



ASS'Y. PROC. D  
SEE NOTE 6



ASS'Y PROC. E & F



| NO. OF CKTS. | DIM. A                        | DIM. B            | KINK PIN LOCATION (ASSY PROC D ONLY) |
|--------------|-------------------------------|-------------------|--------------------------------------|
| 2            | (3.96 ± .13)<br>.156 ± .005   | (7.82 )<br>.308   | N/A                                  |
| 3            | (7.92 ± .13)<br>.312 ± .005   | (11.79 )<br>.464  | N/A                                  |
| 4            | (11.89 ± .13)<br>.468 ± .005  | (15.75 )<br>.620  | 1, 2<br>3, 4                         |
| 5            | (15.85 ± .13)<br>.624 ± .005  | (19.71 )<br>.776  | 2, 3<br>4, 5                         |
| 6            | (19.81 ± .13)<br>.780 ± .005  | (23.67 )<br>.932  | 2, 3<br>4, 5                         |
| 7            | (23.77 ± .25)<br>.936 ± .010  | (27.64 )<br>1.088 | 2, 3<br>5, 6                         |
| 8            | (27.74 ± .25)<br>1.092 ± .010 | (31.60 )<br>1.244 | 2, 3<br>6, 7                         |
| 9            | (31.70 ± .25)<br>1.248 ± .010 | (35.56 )<br>1.400 | 2, 3<br>7, 8                         |
| 10           | (35.66 ± .25)<br>1.404 ± .010 | (39.52 )<br>1.556 | 2, 3<br>8, 9                         |
| 11           | (39.62 ± .25)<br>1.560 ± .010 | (43.48 )<br>1.712 | 2, 3<br>9, 10                        |
| 12           | (43.59 ± .25)<br>1.716 ± .010 | (47.45 )<br>1.868 | 2, 3<br>10, 11                       |
| 13           | (47.55 ± .25)<br>1.872 ± .010 | (51.41 )<br>2.024 | 2, 3<br>11, 12                       |
| 14           | (51.51 ± .36)<br>2.028 ± .014 | (55.37 )<br>2.180 | 2, 3<br>12, 13                       |
| 15           | (55.47 ± .36)<br>2.184 ± .014 | (59.33 )<br>2.336 | 2, 3<br>13, 14                       |
| 16           | (59.44 ± .36)<br>2.340 ± .014 | (63.30 )<br>2.492 | 2, 3<br>14, 15                       |

|     |     |
|-----|-----|
| 2-* | W   |
| I   | W   |
| SHT | REV |

DIMENSIONS:

☐ mm ☐ INCH ☐ mm ☐ INCH ☐ mm ONLY

☐ SHT ☐ REV

TITLE: KK 156 PCB ASSY  
2145 SERIES DWG

MOLEX INCORPORATED

MATERIAL NO. SEE CHART DRAWING NO. SDA-2145 SHEET NO. 1 OF \*

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

SIZE  
A

REV PLTS  
EC NO. UCP2003-1297  
DRWN: SAMIEC 11/26/02  
CHK: SAMIEC 11/26/02  
APPR: MARGULIS 11/26/02

QUALITY SYMBOLS  
MAJOR = 0  
CRITICAL = 0

GENERAL TOLERANCES:  
(UNLESS SPECIFIED)

|          | mm    | INCH  |
|----------|-------|-------|
| 4 PLACES | ±0.   | ±.    |
| 3 PLACES | ±0.   | ±.010 |
| 2 PLACES | ±0.25 | ±.014 |
| 1 PLACE  | ±0.36 | ±.    |

ANGULAR: ±1/2 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SCALE :  
DESIGN UNITS  
☐ mm ☐ INCH

DRAWN BY & DATE  
SAMIEC 7/9/87

CHECKED BY & DATE  
SAMIEC 7/9/87

APPROVED BY & DATE  
MARGULIS 7/9/87

CAD FILENAME

THIRD ANGLE PROJECTION

SEE CHART



# KK 156 PCB ASSY 2-15 CKT

## 2145 SERIES

SDA-2145- \*\* N\* \* - \* - \*

ASSY PROCEDURE  
A=RIGHT ANGLE  
B=BOTTOM ENTRY  
C=TOP ENTRY  
D=TOP ENTRY/KINKED TAIL  
E=BOTTOM ENTRY/HOOKS CUT  
F=TOP ENTRY / HOOKS CUT

HOUSING TYPE  
A=2145-N-AN  
RAMPS & HOOKS  
B=2145-NBK-AN  
RAMPS & HOOKS  
DYED BLACK  
G=2145-N-CN  
HOOKS ONLY

NO OF CIRCUITS

TERMINAL TYPE  
A=2144-AA-A1AA\*B - BRASS  
B=2144-BA-A1AA\*B - PHOS BRONZE  
C=2144-AA-A2AA\*B - BRASS  
H=2188-\* - BRASS  
J=2188-1\* - BRASS  
K=4244-\* - BRASS  
L=6298-\* - PHOS BRONZE  
N=4244-A\* - PHOS BRONZE

PLATING  
102 = 200 M.I. MIN TIN OVER COPPER  
567 = 15 M.I. MIN SELECT GOLD  
100 M.I. MIN SELECT TIN/LEAD  
WITH NICKEL UNDERPLATE

VOID LOCATION

PACKAGING  
BLANK=BULK PER  
PK-2145-001

|              |                   |
|--------------|-------------------|
| Assy Proc:   | RIGHT ANGLE       |
| Kinked Term: | NO                |
| Hooks Cut:   | NO                |
| Housing No:  | 2145-**-AN        |
| Terminal No: | 2144-BA-A1AA-102B |
| Dim C:       | .145 / 3.68       |
| Plating:     | 102-TIN           |
| Packaging:   | PK-2145-001       |
| Voids:       | NO                |

|              |                  |
|--------------|------------------|
| Assy Proc:   | RIGHT ANGLE      |
| Kinked Term: | NO               |
| Hooks Cut:   | NO               |
| Housing No:  | 2145-**-AN       |
| Terminal No: | 2144-BA-A1AA567B |
| Dim C:       | .145 / 3.68      |
| Plating:     | 567-15 GOLD      |
| Packaging:   | PK-2145-001      |
| Voids:       | NO               |

| Ckts | Material No | Engineer Number  |
|------|-------------|------------------|
| 2    | 09-52-1026  | A-2145-AA02B-102 |
| 3    | 09-52-1036  | A-2145-AA03B-102 |
| 4    | 09-52-1046  | A-2145-AA04B-102 |
| 5    | 09-52-1056  | A-2145-AA05B-102 |
| 6    | 09-52-1066  | A-2145-AA06B-102 |
| 7    | 09-52-1076  | A-2145-AA07B-102 |
| 8    | 09-52-1086  | A-2145-AA08B-102 |
| 9    | 09-52-1096  | A-2145-AA09B-102 |
| 10   | 09-52-1106  | A-2145-AA10B-102 |
| 11   | 09-52-1116  | A-2145-AA11B-102 |
| 12   | 09-52-1126  | A-2145-AA12B-102 |
| 13   | 09-52-1136  | A-2145-AA13B-102 |
| 14   | 09-52-1146  | A-2145-AA14B-102 |
| 15   | 09-52-1156  | A-2145-AA15B-102 |
| 16   |             |                  |

| Material No | Engineer Number  |
|-------------|------------------|
| 09-62-4027  | A-2145-AA02B-567 |
| 09-62-4037  | A-2145-AA03B-567 |
| 09-62-4047  | A-2145-AA04B-567 |
| 09-62-4057  | A-2145-AA05B-567 |
| 09-62-4067  | A-2145-AA06B-567 |
| 09-62-4077  | A-2145-AA07B-567 |
| 09-62-4087  | A-2145-AA08B-567 |
| 09-62-4097  | A-2145-AA09B-567 |
| 09-62-4107  | A-2145-AA10B-567 |
| 09-62-4117  | A-2145-AA11B-567 |
| 09-62-4127  | A-2145-AA12B-567 |
| 09-62-4137  | A-2145-AA13B-567 |
| 09-62-4147  | A-2145-AA14B-567 |
| 09-62-4157  | A-2145-AA15B-567 |

CATALOG PRODUCT

Sheet one is in Microstation or ME10

|                                     |                                        |                                                      |                                 |
|-------------------------------------|----------------------------------------|------------------------------------------------------|---------------------------------|
| REV:<br><b>W</b>                    | UCP2003-1297<br>11/24/2003 SAMIEC      | TITLE:<br><b>KK 156 PCB ASSY<br/>2145 SERIES DWG</b> | SHEET No.<br><b>- 2 -</b>       |
| DOCUMENT NUMBER:<br><b>SDA-2145</b> | CREATED / REVISED BY:<br><b>SAMIEC</b> | CHECKED BY:<br><b>SAMIEC</b>                         | APPROVED BY:<br><b>MARGULIS</b> |



# KK 156 PCB ASSY 2-15 CKT

## 2145 SERIES

| Ckts | Assy Proc: BOTTOM ENTRY |                   | Assy Proc: BOTTOM ENTRY |                   | Assy Proc: TOP ENTRY |                    | Assy Proc: TOP ENTRY |                    |
|------|-------------------------|-------------------|-------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|
|      | Kinked Term:            | NO                | Kinked Term:            | NO                | Kinked Term:         | NO                 | Kinked Term:         | NO                 |
|      | Hooks Cut:              | NO                | Hooks Cut:              | NO                | Hooks Cut:           | NO                 | Hooks Cut:           | NO                 |
|      | Housing No:             | 2145-**-AN        | Housing No:             | 2145-**-AN        | Housing No:          | 2145-**-AN         | Housing No:          | 2145-**-AN         |
|      | Terminal No:            | 6298-102          | Terminal No:            | 6298-567          | Terminal No:         | 2144-BA-A1AA-102B  | Terminal No:         | 2144-BA-A1AA-567B  |
|      | Dim C:                  | .160 / 4.06       | Dim C:                  | .160 / 4.06       | Dim C:               | .120 / 3.05        | Dim C:               | .120 / 3.05        |
|      | Plating:                | 102-TIN           | Plating:                | 567-15 GOLD       | Plating:             | 102 – TIN          | Plating:             | 567 – 15 GOLD      |
|      | Packaging:              | PK-2145-001       | Packaging:              | PK-2145-001       | Packaging:           | PK-2145-001        | Packaging:           | PK-2145-001        |
|      | 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    | 09-62-6024              | A-2145-BA02L-102  | 09-62-4028              | A-2145-BA02L-567  | 09-62-6025           | A-2145-CA02B-102   | 09-62-4029           | A-2145-CA 02B-567  |
| 3    | 09-62-6034              | A-2145-BA 03L-102 | 09-62-4038              | A-2145-BA 03L-567 | 09-62-6035           | A-2145-CA 03 B-102 | 09-62-4039           | A-2145-CA 03 B-567 |
| 4    | 09-62-6044              | A-2145-BA 04L-102 | 09-62-4048              | A-2145-BA 04L-567 | 09-62-6045           | A-2145-CA 04 B-102 | 09-62-4049           | A-2145-CA 04 B-567 |
| 5    | 09-62-6054              | A-2145-BA 05L-102 | 09-62-4058              | A-2145-BA 05L-567 | 09-62-6055           | A-2145-CA 05 B-102 | 09-62-4059           | A-2145-CA 05 B-567 |
| 6    | 09-62-6064              | A-2145-BA 06L-102 | 09-62-4068              | A-2145-BA 06L-567 | 09-62-6065           | A-2145-CA 06 B-102 | 09-62-4069           | A-2145-CA 06 B-567 |
| 7    | 09-62-6074              | A-2145-BA 07L-102 | 09-62-4078              | A-2145-BA 07L-567 | 09-62-6075           | A-2145-CA 07 B-102 | 09-62-4079           | A-2145-CA 07 B-567 |
| 8    | 09-62-6084              | A-2145-BA 08L-102 | 09-62-4088              | A-2145-BA 08L-567 | 09-62-6085           | A-2145-CA 08 B-102 | 09-62-4089           | A-2145-CA 08 B-567 |
| 9    | 09-62-6094              | A-2145-BA 09L-102 | 09-62-4098              | A-2145-BA 09L-567 | 09-62-6095           | A-2145-CA 09 B-102 | 09-62-4099           | A-2145-CA 09 B-567 |
| 10   | 09-62-6104              | A-2145-BA 10L-102 | 09-62-4108              | A-2145-BA 10L-567 | 09-62-6105           | A-2145-CA 10 B-102 | 09-62-4109           | A-2145-CA 10 B-567 |
| 11   | 09-62-6114              | A-2145-BA 11L-102 | 09-62-4118              | A-2145-BA 11L-567 | 09-62-6115           | A-2145-CA 11 B-102 | 09-62-4119           | A-2145-CA 11 B-567 |
| 12   | 09-62-6124              | A-2145-BA 12L-102 | 09-62-4128              | A-2145-BA 12L-567 | 09-62-6125           | A-2145-CA 12 B-102 | 09-62-4129           | A-2145-CA 12 B-567 |
| 13   | 09-62-6134              | A-2145-BA 13L-102 | 09-62-4138              | A-2145-BA 13L-567 | 09-62-6135           | A-2145-CA 13 B-102 | 09-62-4139           | A-2145-CA 13 B-567 |
| 14   | 09-62-6144              | A-2145-BA 14L-102 | 09-62-4148              | A-2145-BA 14L-567 | 09-62-6145           | A-2145-CA 14 B-102 | 09-62-4149           | A-2145-CA 14 B-567 |
| 15   | 09-62-6154              | A-2145-BA 15L-102 | 09-62-4158              | A-2145-BA 15L-567 | 09-62-6155           | A-2145-CA 15 B-102 | 09-62-4159           | A-2145-CA 15 B-567 |
|      |                         |                   |                         |                   |                      |                    |                      |                    |

### CATALOG PRODUCTS

|                                                  |                                       |                                                  |                           |                              |
|--------------------------------------------------|---------------------------------------|--------------------------------------------------|---------------------------|------------------------------|
| REV:<br><br>W                                    | UCP2003-1297<br><br>11/24/2003 SAMIEC | TITLE:<br><br>KK 156 PCB ASSY<br>2145 SERIES DWG |                           | SHEET No.<br><br>- 3 -       |
| DOCUMENT NUMBER:<br><br>SDA-2145                 |                                       | CREATED / REVISED BY:<br><br>SAMIEC              | CHECKED BY:<br><br>SAMIEC | APPROVED BY:<br><br>MARGULIS |
| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC |                                       |                                                  |                           |                              |



# KK 156 PCB ASSY 2-15 CKT

## 2145 SERIES

|              |                   |
|--------------|-------------------|
| Assy Proc:   | RIGHT ANGLE       |
| Kinked Term: | NO                |
| Hooks Cut:   | NO                |
| Housing No:  | 2145-**-AN        |
| Terminal No: | 2144-AA-A1AA-102B |
| Dim C:       | .145 / 3.68       |
| Plating:     | 102 – TIN         |
| Packaging:   | PK-2145-001       |
| Voids:       | NO                |

|              |                   |
|--------------|-------------------|
| Assy Proc:   | RIGHT ANGLE       |
| Kinked Term: | NO                |
| Hooks Cut:   | NO                |
| Housing No:  | 2145-**-AN        |
| Terminal No: | 2144-AA-A1AA-122B |
| Dim C:       | .145 / 3.68       |
| Plating:     | 122 – TIN         |
| Packaging:   | PK-2145-001       |
| Voids:       | NO                |

|              |                   |
|--------------|-------------------|
| Assy Proc:   | RIGHT ANGLE       |
| Kinked Term: | NO                |
| Hooks Cut:   | NO                |
| Housing No:  | 2145-**-AN        |
| Terminal No: | 2144-BA-A1AA-558B |
| Dim C:       | .145 / 3.68       |
| Plating:     | 558 – 30 GOLD     |
| Packaging:   | PK-2145-001       |
| Voids:       | NO                |

|              |                    |
|--------------|--------------------|
| Assy Proc:   | RIGHT ANGLE        |
| Kinked Term: | NO                 |
| Hooks Cut:   | NO                 |
| Housing No:  | 2145-**-AN         |
| Terminal No: | 2144-AA-A1AA-P913B |
| Dim C:       | .145 / 3.68        |
| Plating:     | P913- TIN/LEAD     |
| Packaging:   | PK-2145-001        |
| Voids:       | NO                 |

Ckts

| Material No | Engineer Number    |
|-------------|--------------------|
| 09-52-1021  | A-2145-AA02A-102   |
| 09-52-1031  | A-2145-AA 03 A-102 |
| 09-52-1041  | A-2145-AA 04 A-102 |
| 09-52-1051  | A-2145-AA 05 A-102 |
| 09-52-1061  | A-2145-AA 06 A-102 |
| 09-52-1071  | A-2145-AA 07 A-102 |
| 09-52-1081  | A-2145-AA 08 A-102 |
| 09-52-1091  | A-2145-AA 09 A-102 |
| 09-52-1101  | A-2145-AA 10 A-102 |
| 09-52-1111  | A-2145-AA 11 A-102 |
| 09-52-1121  | A-2145-AA 12 A-102 |
| 09-52-1131  | A-2145-AA 13 A-102 |
| 09-52-1141  | A-2145-AA 14 A-102 |
| 09-52-1151  | A-2145-AA 15 A-102 |

| Material No | Engineer Number    |
|-------------|--------------------|
| 09-86-3021  | A-2145-AA 02A-122  |
| 09-86-3031  | A-2145-AA 03 A-122 |
| 09-86-3041  | A-2145-AA 04 A-122 |
| 09-86-3051  | A-2145-AA 05 A-122 |
| 09-86-3061  | A-2145-AA 06 A-122 |
| 09-86-3071  | A-2145-AA 07 A-122 |
| 09-86-3081  | A-2145-AA 08 A-122 |
| 09-86-3091  | A-2145-AA 09 A-122 |
| 09-86-3101  | A-2145-AA 10 A-122 |
| 09-86-3111  | A-2145-AA 11 A-122 |
| 09-86-3121  | A-2145-AA 12 A-122 |
| 09-86-3131  | A-2145-AA 13 A-122 |
| 09-86-3141  | A-2145-AA 14 A-122 |
| 09-86-3151  | A-2145-AA 15 A-122 |

| Material No | Engineer Number    |
|-------------|--------------------|
| 09-62-3025  | A-2145-AA02B-558   |
| 09-62-3035  | A-2145-AA 03 B-558 |
| 09-62-3045  | A-2145-AA 04 B-558 |
| 09-62-3055  | A-2145-AA 05 B-558 |
| 09-62-3065  | A-2145-AA 06 B-558 |
| 09-62-3075  | A-2145-AA 07 B-558 |
| 09-62-3085  | A-2145-AA 08 B-558 |
| 09-62-3095  | A-2145-AA 09 B-558 |
| 09-62-3105  | A-2145-AA 10 B-558 |
| 09-62-3115  | A-2145-AA 11 B-558 |
| 09-62-3125  | A-2145-AA 12 B-558 |
| 09-62-3135  | A-2145-AA 13 B-558 |
| 09-62-3145  | A-2145-AA 14 B-558 |
| 09-62-3155  | A-2145-AA 15 B-558 |

| Material No | Engineer Number     |
|-------------|---------------------|
| 09-52-3021  | A-2145-AA02A-P913   |
| 09-52-3031  | A-2145-AA 03 A-P913 |
| 09-52-3041  | A-2145-AA 04 A-P913 |
| 09-52-3051  | A-2145-AA 05 A-P913 |
| 09-52-3061  | A-2145-AA 06 A-P913 |
| 09-52-3071  | A-2145-AA 07 A-P913 |
| 09-52-3081  | A-2145-AA 08 A-P913 |
| 09-52-3091  | A-2145-AA 09 A-P913 |
| 09-52-3101  | A-2145-AA 10 A-P913 |
| 09-52-3111  | A-2145-AA 11 A-P913 |
| 09-52-3121  | A-2145-AA 12 A-P913 |
| 09-52-3131  | A-2145-AA 13 A-P913 |
| 09-52-3141  | A-2145-AA 14 A-P913 |
| 09-52-3151  | A-2145-AA 15 A-P913 |

### CUSTOM OPTIONS

|                                     |                                        |                                                      |                                 |
|-------------------------------------|----------------------------------------|------------------------------------------------------|---------------------------------|
| REV:<br><b>W</b>                    | UCP2003-1297<br>11/24/2003 SAMIEC      | TITLE:<br><b>KK 156 PCB ASSY<br/>2145 SERIES DWG</b> | SHEET No.<br><b>- 4 -</b>       |
| DOCUMENT NUMBER:<br><b>SDA-2145</b> | CREATED / REVISED BY:<br><b>SAMIEC</b> | CHECKED BY:<br><b>SAMIEC</b>                         | APPROVED BY:<br><b>MARGULIS</b> |



# KK 156 PCB ASSY 2-15 CKT

## 2145 SERIES

|              |                    |
|--------------|--------------------|
| Assy Proc:   | RIGHT ANGLE        |
| Kinked Term: | NO                 |
| Hooks Cut:   | NO                 |
| Housing No:  | 2145-**-BK-AN      |
| Terminal No: | 2144-AA-A1AA-P913B |
| Dim C:       | .145 / 3.68        |
| Plating:     | P913 – TIN/LEAD    |
| Packaging:   | PK-2145-001        |
| Voids:       | NO                 |

|              |                   |
|--------------|-------------------|
| Assy Proc:   | RIGHT ANGLE       |
| Kinked Term: | NO                |
| Hooks Cut:   | NO                |
| Housing No:  | 2145-**-AN        |
| Terminal No: | 2144-AA-A1AA-567B |
| Dim C:       | .145 / 3.68       |
| Plating:     | 567 – 15 GOLD     |
| Packaging:   | PK-2145-001       |
| Voids:       | NO                |

|              |                    |
|--------------|--------------------|
| Assy Proc:   | RIGHT ANGLE        |
| Kinked Term: | NO                 |
| Hooks Cut:   | NO                 |
| Housing No:  | 2145-**-CN         |
| Terminal No: | 2144-AA-A1AA-P913B |
| Dim C:       | .145 / 3.68        |
| Plating:     | P913 – TIN/LEAD    |
| Packaging:   | PK-2145-001        |
| Voids:       | NO                 |

|              |                 |
|--------------|-----------------|
| Assy Proc:   | BOTTOM ENTRY    |
| Kinked Term: | NO              |
| Hooks Cut:   | NO              |
| Housing No:  | 2145-**-AN      |
| Terminal No: | 6298-P913       |
| Dim C:       | .160 / 4.06     |
| Plating:     | P913 – TIN/LEAD |
| Packaging:   | PK-2145-001     |
| Voids:       | NO              |

| Ckts | Material No | Engineer Number     | Material No | Engineer Number    | Material No | Engineer Number     | Material No | Engineer Number     |
|------|-------------|---------------------|-------------|--------------------|-------------|---------------------|-------------|---------------------|
| 2    | 09-53-3021  | A-2145-AB 02 A-P913 | 09-62-3021  | A-2145-AA02A-567   |             | A-2145-AG02A-P913   | 09-52-2028  | A-2145-BA02L-P913   |
| 3    | 09-53-3031  | A-2145-AB 03 A-P913 | 09-62-3031  | A-2145-AA 03 A-567 |             | A-2145-AG 03 A-P913 | 09-52-2038  | A-2145-BA 03 L-P913 |
| 4    | 09-53-3041  | A-2145-AB 04 A-P913 | 09-62-3041  | A-2145-AA 04 A-567 |             | A-2145-AG 04 A-P913 | 09-52-2048  | A-2145-BA 04 L-P913 |
| 5    | 09-53-3051  | A-2145-AB 05 A-P913 | 09-62-3051  | A-2145-AA 05 A-567 |             | A-2145-AG 05 A-P913 | 09-52-2058  | A-2145-BA 05 L-P913 |
| 6    | 09-53-3061  | A-2145-AB 06 A-P913 | 09-62-3061  | A-2145-AA 06 A-567 |             | A-2145-AG 06 A-P913 | 09-52-2068  | A-2145-BA 06 L-P913 |
| 7    | 09-53-3071  | A-2145-AB 07 A-P913 | 09-62-3071  | A-2145-AA 07 A-567 |             | A-2145-AG 07 A-P913 | 09-52-2078  | A-2145-BA 07 L-P913 |
| 8    | 09-53-3081  | A-2145-AB 08 A-P913 | 09-62-3081  | A-2145-AA 08 A-567 |             | A-2145-AG 08 A-P913 | 09-52-2088  | A-2145-BA 08 L-P913 |
| 9    | 09-53-3091  | A-2145-AB 09 A-P913 | 09-62-3091  | A-2145-AA 09 A-567 | 09-52-2097  | A-2145-AG 09 A-P913 | 09-52-2098  | A-2145-BA 09 L-P913 |
| 10   | 09-53-3101  | A-2145-AB 10 A-P913 | 09-62-3101  | A-2145-AA 10 A-567 |             | A-2145-AG 10 A-P913 | 09-52-2108  | A-2145-BA 10 L-P913 |
| 11   | 09-53-3111  | A-2145-AB 11 A-P913 | 09-62-3111  | A-2145-AA 11 A-567 |             | A-2145-AG 11 A-P913 | 09-52-2118  | A-2145-BA 11 L-P913 |
| 12   | 09-53-3121  | A-2145-AB 12 A-P913 | 09-62-3121  | A-2145-AA 12 A-567 |             | A-2145-AG 12 A-P913 | 09-52-2128  | A-2145-BA 12 L-P913 |
| 13   | 09-53-3131  | A-2145-AB 13 A-P913 | 09-62-3131  | A-2145-AA 13 A-567 |             | A-2145-AG 13 A-P913 | 09-52-2138  | A-2145-BA 13 L-P913 |
| 14   | 09-53-3141  | A-2145-AB 14 A-P913 | 09-62-3141  | A-2145-AA 14 A-567 |             | A-2145-AG 14 A-P913 | 09-52-2148  | A-2145-BA 14 L-P913 |
| 15   | 09-53-3151  | A-2145-AB 15 A-P913 | 09-62-3151  | A-2145-AA 15 A-567 |             | A-2145-AG 15 A-P913 | 09-52-2158  | A-2145-BA 15 L-P913 |

CUSTOM OPTION

|                                     |                                        |                                                      |                                 |
|-------------------------------------|----------------------------------------|------------------------------------------------------|---------------------------------|
| REV:<br><b>W</b>                    | UCP2003-1297<br>11/24/2003 SAMIEC      | TITLE:<br><b>KK 156 PCB ASSY<br/>2145 SERIES DWG</b> | SHEET No.<br><b>- 5 -</b>       |
| DOCUMENT NUMBER:<br><b>SDA-2145</b> | CREATED / REVISED BY:<br><b>SAMIEC</b> | CHECKED BY:<br><b>SAMIEC</b>                         | APPROVED BY:<br><b>MARGULIS</b> |



# KK 156 PCB ASSY 2-15 CKT

## 2145 SERIES

|              |                   |
|--------------|-------------------|
| Assy Proc:   | TOP ENTRY         |
| Kinked Term: | NO                |
| Hooks Cut:   | NO                |
| Housing No:  | 2145-**-AN        |
| Terminal No: | 2144-AA-A1AA-102B |
| Dim C:       | .120 / 3.05       |
| Plating:     | 102 – TIN         |
| Packaging:   | PK-2145-001       |
| Voids:       | NO                |

|              |                   |
|--------------|-------------------|
| Assy Proc:   | TOP ENTRY         |
| Kinked Term: | NO                |
| Hooks Cut:   | NO                |
| Housing No:  | 2145-**-AN        |
| Terminal No: | 2144-AA-A2AA-P913 |
| Dim C:       | .189 / 4.80       |
| Plating:     | P913 – TIN/LEAD   |
| Packaging:   | PK-2145-001       |
| Voids:       | NO                |

|              |                    |
|--------------|--------------------|
| Assy Proc:   | TOP ENTRY          |
| Kinked Term: | NO                 |
| Hooks Cut:   | YES                |
| Housing No:  | 2145-**-AN         |
| Terminal No: | 2144-AA-A1AA-P913B |
| Dim C:       | .120 / 3.05        |
| Plating:     | P913 – TIN/LEAD    |
| Packaging:   | PK-2145-001        |
| Voids:       | NO                 |

|              |                 |
|--------------|-----------------|
| Assy Proc:   | BOTTOM ENRTY    |
| Kinked Term: | NO              |
| Hooks Cut:   | NO              |
| Housing No:  | 2145-**-AN      |
| Terminal No: | 2188-P913       |
| Dim C:       | .160 / 4.06     |
| Plating:     | P913 – TIN/LEAD |
| Packaging:   | PK-2145-001     |
| Voids:       | NO              |

Ckts

| Material No | Engineer Number    |
|-------------|--------------------|
| 09-52-1023  | A-2145-CA02A-102   |
| 09-52-1033  | A-2145-CA 03 A-102 |
| 09-52-1043  | A-2145-CA 04 A-102 |
| 09-52-1053  | A-2145-CA 05 A-102 |
| 09-52-1063  | A-2145-CA 06 A-102 |
| 09-52-1073  | A-2145-CA 07 A-102 |
| 09-52-1083  | A-2145-CA 08 A-102 |
| 09-52-1093  | A-2145-CA 09 A-102 |
| 09-52-1103  | A-2145-CA 10 A-102 |
| 09-52-1113  | A-2145-CA 11 A-102 |
| 09-52-1123  | A-2145-CA 12 A-102 |
| 09-52-1133  | A-2145-CA 13 A-102 |
| 09-52-1143  | A-2145-CA 14 A-102 |
| 09-52-1153  | A-2145-CA 15 A-102 |

| Material No | Engineer Number     |
|-------------|---------------------|
| 09-52-1029  | A-2145-CA02C-P913   |
| 09-52-1039  | A-2145-CA 03 C-P913 |
| 09-52-1049  | A-2145-CA 04 C-P913 |
| 09-52-1059  | A-2145-CA 05 C-P913 |
| 09-52-1069  | A-2145-CA 06 C-P913 |
| 09-52-1079  | A-2145-CA 07 C-P913 |
| 09-52-1089  | A-2145-CA 08 C-P913 |
| 09-52-1099  | A-2145-CA 09 C-P913 |
| 09-52-1109  | A-2145-CA 10 C-P913 |
| 09-52-1119  | A-2145-CA 11 C-P913 |
| 09-52-1129  | A-2145-CA 12 C-P913 |
| 09-52-1139  | A-2145-CA 13 C-P913 |
| 09-52-1149  | A-2145-CA 14 C-P913 |
| 09-52-1159  | A-2145-CA 15 C-P913 |

| Material No | Engineer Number     |
|-------------|---------------------|
|             | A-2145-FA02A-P913   |
| 09-52-3034  | A-2145-FA 03 A-P913 |
| 09-52-3044  | A-2145-FA 04 A-P913 |
| 09-52-3054  | A-2145-FA 05 A-P913 |
| 09-52-3064  | A-2145-FA 06 A-P913 |
|             | A-2145-FA 07 A-P913 |
| 09-52-3089  | A-2145-FA 08 A-P913 |
| 09-52-3094  | A-2145-FA 09 A-P913 |
|             | A-2145-FA 10 A-P913 |
|             | A-2145-FA 11 A-P913 |
|             | A-2145-FA 12 A-P913 |
|             | A-2145-FA 13 A-P913 |
|             | A-2145-FA 14 A-P913 |
|             | A-2145-FA 15 A-P913 |

| Material No | Engineer Number     |
|-------------|---------------------|
| 09-52-3022  | A-2145-BA02H-P913   |
| 09-52-3032  | A-2145-BA 03 H-P913 |
| 09-52-3042  | A-2145-BA 04 H-P913 |
| 09-52-3052  | A-2145-BA 05 H-P913 |
| 09-52-3062  | A-2145-BA 06 H-P913 |
| 09-52-3072  | A-2145-BA 07 H-P913 |
| 09-52-3082  | A-2145-BA 08 H-P913 |
| 09-52-3092  | A-2145-BA 09 H-P913 |
| 09-52-3102  | A-2145-BA 10 H-P913 |
| 09-52-3112  | A-2145-BA 11 H-P913 |
| 09-52-3122  | A-2145-BA 12 H-P913 |
| 09-52-3132  | A-2145-BA 13 H-P913 |
| 09-52-3142  | A-2145-BA 14 H-P913 |
| 09-52-3152  | A-2145-BA 15 H-P913 |

### CUSTOM OPTIONS

REV:

**W**

**UCP2003-1297**

**11/24/2003 SAMIEC**

TITLE:

**KK 156 PCB ASSY  
2145 SERIES DWG**

SHEET No.

**- 6 -**

DOCUMENT NUMBER:

**SDA-2145**

CREATED / REVISED BY:

**SAMIEC**

CHECKED BY:

**SAMIEC**

APPROVED BY:

**MARGULIS**



# KK 156 PCB ASSY 2-15 CKT

## 2145 SERIES

|              |               |
|--------------|---------------|
| Assy Proc:   | BOTTOM ENTRY  |
| Kinked Term: | NO            |
| Hooks Cut:   | NO            |
| Housing No:  | 2145-**-AN    |
| Terminal No: | 2188-567      |
| Dim C:       | .160 / 4.06   |
| Plating:     | 567 – 15 GOLD |
| Packaging:   | PK-2145-001   |
| Voids:       | NO            |

|              |                 |
|--------------|-----------------|
| Assy Proc:   | RIGHT ANGLE     |
| Kinked Term: | NO              |
| Hooks Cut:   | NO              |
| Housing No:  | 2145-**-AN      |
| Terminal No: | 4244-P913       |
| Dim C:       | .145 / 3.68     |
| Plating:     | P913 – TIN/LEAD |
| Packaging:   | PK-2145-001     |
| Voids:       | NO              |

|              |                    |
|--------------|--------------------|
| Assy Proc:   | TOP ENTRY          |
| Kinked Term: | NO                 |
| Hooks Cut:   | NO                 |
| Housing No:  | 2145-**-AN         |
| Terminal No: | 2144-AA-A1AA-P913B |
| Dim C:       | .120 / 3.05        |
| Plating:     | P913 – TIN/LEAD    |
| Packaging:   | PK-2145-001        |
| Voids:       | NO                 |

|              |                   |
|--------------|-------------------|
| Assy Proc:   | RIGHT ANGLE       |
| Kinked Term: | NO                |
| Hooks Cut:   | NO                |
| Housing No:  | 2145-**-AN        |
| Terminal No: | 2144-BA-A1AA-122B |
| Dim C:       | .145 / 3.68       |
| Plating:     | 122 – TIN         |
| Packaging:   | PK-2145-001       |
| Voids:       | NO                |

Ckts

| Material No | Engineer Number    |
|-------------|--------------------|
| 09-62-3022  | A-2145-BA02H-567   |
| 09-62-3032  | A-2145-BA 03 H-567 |
| 09-62-3042  | A-2145-BA 04 H-567 |
| 09-62-3052  | A-2145-BA 05 H-567 |
| 09-62-3062  | A-2145-BA 06 H-567 |
| 09-62-3072  | A-2145-BA 07 H-567 |
| 09-62-3082  | A-2145-BA 08 H-567 |
| 09-62-3092  | A-2145-BA 09 H-567 |
| 09-62-3102  | A-2145-BA 10 H-567 |
| 09-62-3112  | A-2145-BA 11 H-567 |
| 09-62-3122  | A-2145-BA 12 H-567 |
| 09-62-3132  | A-2145-BA 13 H-567 |
| 09-62-3142  | A-2145-BA 14 H-567 |
| 09-62-3152  | A-2145-BA 15 H-567 |

| Material No | Engineer Number     |
|-------------|---------------------|
|             | A-2145-AA02K-P913   |
| 09-52-3035  | A-2145-AA 03 K-P913 |
| 09-52-3045  | A-2145-AA 04 K-P913 |
| 09-52-3055  | A-2145-AA 05 K-P913 |
| 09-52-3065  | A-2145-AA 06 K-P913 |
|             | A-2145-AA 07 K-P913 |
| 09-52-3085  | A-2145-AA 08 K-P913 |
| 09-52-3095  | A-2145-AA 09 K-P913 |
| 09-52-3105  | A-2145-AA 10 K-P913 |
|             | A-2145-AA 11 K-P913 |
| 09-52-3125  | A-2145-AA 12 K-P913 |
|             | A-2145-AA 13 K-P913 |
|             | A-2145-AA 14 K-P913 |
| 09-52-3155  | A-2145-AA 15 K-P913 |

| Material No | Engineer Number     |
|-------------|---------------------|
| 09-52-3023  | A-2145-CA02A-P913   |
| 09-52-3033  | A-2145-CA 03 A-P913 |
| 09-52-3043  | A-2145-CA 04 A-P913 |
| 09-52-3053  | A-2145-CA 05 A-P913 |
| 09-52-3063  | A-2145-CA 06 A-P913 |
| 09-52-3073  | A-2145-CA 07 A-P913 |
| 09-52-3083  | A-2145-CA 08 A-P913 |
| 09-52-3093  | A-2145-CA 09 A-P913 |
| 09-52-3103  | A-2145-CA 10 A-P913 |
| 09-52-3113  | A-2145-CA 11 A-P913 |
| 09-52-3123  | A-2145-CA 12 A-P913 |
| 09-52-3133  | A-2145-CA 13 A-P913 |
| 09-52-3143  | A-2145-CA 14 A-P913 |
| 09-52-3153  | A-2145-CA 15 A-P913 |

| Material No | Engineer Number    |
|-------------|--------------------|
|             | A-2145-AA02B-122   |
|             | A-2145-AA 03 B-122 |
| 09-86-3044  | A-2145-AA 04 B-122 |
| 09-86-3054  | A-2145-AA 05 B-122 |
| 09-86-3064  | A-2145-AA 06 B-122 |
|             | A-2145-AA 07 B-122 |
| 09-86-3084  | A-2145-AA 08 B-122 |
|             | A-2145-AA 09 B-122 |
| 09-86-3104  | A-2145-AA 10 B-122 |
|             | A-2145-AA 11 B-122 |
| 09-86-3124  | A-2145-AA 12 B-122 |
|             | A-2145-AA 13 B-122 |
|             | A-2145-AA 14 B-122 |
|             | A-2145-AA 15 B-122 |

### CUSTOM OPTIONS

|                                     |                                        |                                                      |                                 |
|-------------------------------------|----------------------------------------|------------------------------------------------------|---------------------------------|
| REV:<br><b>W</b>                    | UCP2003-1297<br>11/24/2003 SAMIEC      | TITLE:<br><b>KK 156 PCB ASSY<br/>2145 SERIES DWG</b> | SHEET No.<br><b>- 7 -</b>       |
| DOCUMENT NUMBER:<br><b>SDA-2145</b> | CREATED / REVISED BY:<br><b>SAMIEC</b> | CHECKED BY:<br><b>SAMIEC</b>                         | APPROVED BY:<br><b>MARGULIS</b> |



# KK 156 PCB ASSY 2-15 CKT

## 2145 SERIES

|              |                    |
|--------------|--------------------|
| Assy Proc:   | TOP ENTRY          |
| Kinked Term: | NO                 |
| Hooks Cut:   | YES                |
| Housing No:  | A-2145-**-CN       |
| Terminal No: | 2144-AA-A1AA-P913B |
| Dim C:       | .120 / 3.05        |
| Plating:     | P913 – TIN/LEAD    |
| Packaging:   | PK-2145-001        |
| Voids:       | NO                 |

|              |                   |
|--------------|-------------------|
| Assy Proc:   | TOP ENTRY         |
| Kinked Term: | NO                |
| Hooks Cut:   | NO                |
| Housing No:  | 2145-**-AN        |
| Terminal No: | 2144-AA-A1AA-567B |
| Dim C:       | .120 / 3.05       |
| Plating:     | 567 – 15 GOLD     |
| Packaging:   | PK-2145-001       |
| Voids:       | NO                |

|              |                    |
|--------------|--------------------|
| Assy Proc:   | RIGHT ANGLE        |
| Kinked Term: | NO                 |
| Hooks Cut:   | NO                 |
| Housing No:  | 2145-**-AN         |
| Terminal No: | 2144-BA-A1AA-P913B |
| Dim C:       | .145 / 3.68        |
| Plating:     | P913 – TIN/LEAD    |
| Packaging:   | PK-2145-001        |
| Voids:       | NO                 |

|              |             |
|--------------|-------------|
| Assy Proc:   | RIGHT ANGLE |
| Kinked Term: | NO          |
| Hooks Cut:   | NO          |
| Housing No:  | 2145-**-AN  |
| Terminal No: | 4244-A102   |
| Dim C:       | .145 / 3.68 |
| Plating:     | 102 – TIN   |
| Packaging:   | PK-2145-001 |
| Voids:       | NO          |

| Ckts | Material No | Engineer Number     | Material No | Engineer Number    | Material No | Engineer Number     | Material No | Engineer Number    |
|------|-------------|---------------------|-------------|--------------------|-------------|---------------------|-------------|--------------------|
| 2    | 09-52-1025  | A-2145-FG02A-P913   | 09-62-3023  | A-2145-CA02A-567   | 09-52-3028  | A-2145-AA02B-P913   | 50-29-0036  | A-2145-AA 02N-102  |
| 3    | 09-52-1035  | A-2145-FG 03 A-P913 | 09-62-3033  | A-2145-CA 03 A-567 | 09-52-3038  | A-2145-AA 03 B-P913 | 50-29-0037  | A-2145-AA 03 N-102 |
| 4    | 09-52-1045  | A-2145-FG 04 A-P913 | 09-62-3043  | A-2145-CA 04 A-567 | 09-52-3048  | A-2145-AA 04 B-P913 | 50-29-0038  | A-2145-AA 04 N-102 |
| 5    | 09-52-1055  | A-2145-FG 05 A-P913 | 09-62-3053  | A-2145-CA 05 A-567 | 09-52-3058  | A-2145-AA 05 B-P913 | 50-29-0039  | A-2145-AA 05 N-102 |
| 6    | 09-52-1065  | A-2145-FG 06 A-P913 | 09-62-3063  | A-2145-CA 06 A-567 | 09-52-3068  | A-2145-AA 06 B-P913 | 09-52-1060  | A-2145-AA 06 N-102 |
| 7    | 09-52-1075  | A-2145-FG 07 A-P913 | 09-62-3073  | A-2145-CA 07 A-567 | 09-52-3078  | A-2145-AA 07 B-P913 | 50-29-0040  | A-2145-AA 07 N-102 |
| 8    | 09-52-1085  | A-2145-FG 08 A-P913 | 09-62-3083  | A-2145-CA 08 A-567 | 09-52-3088  | A-2145-AA 08 B-P913 | 09-52-1080  | A-2145-AA 08 N-102 |
| 9    | 09-52-1095  | A-2145-FG 09 A-P913 | 09-62-3093  | A-2145-CA 09 A-567 | 09-52-3098  | A-2145-AA 09 B-P913 | 50-29-0041  | A-2145-AA 09 N-102 |
| 10   | 09-52-1105  | A-2145-FG 10 A-P913 | 09-62-3103  | A-2145-CA 10 A-567 | 09-52-3108  | A-2145-AA 10 B-P913 | 09-52-1100  | A-2145-AA 10 N-102 |
| 11   | 09-52-1115  | A-2145-FG 11 A-P913 | 09-62-3113  | A-2145-CA 11 A-567 | 09-52-3118  | A-2145-AA 11 B-P913 | 50-29-0042  | A-2145-AA 11 N-102 |
| 12   | 09-52-1125  | A-2145-FG 12 A-P913 | 09-62-3123  | A-2145-CA 12 A-567 | 09-52-3128  | A-2145-AA 12 B-P913 | 09-52-1120  | A-2145-AA 12 N-102 |
| 13   | 09-52-1135  | A-2145-FG 13 A-P913 | 09-62-3133  | A-2145-CA 13 A-567 | 09-52-3138  | A-2145-AA 13 B-P913 | 50-29-0043  | A-2145-AA 13 N-102 |
| 14   | 09-52-1145  | A-2145-FG 14 A-P913 | 09-62-3143  | A-2145-CA 14 A-567 | 09-52-3148  | A-2145-AA 14 B-P913 | 09-52-1140  | A-2145-AA 14 N-102 |
| 15   | 09-52-1155  | A-2145-FG 15 A-P913 | 09-62-3153  | A-2145-CA 15 A-567 | 09-52-3158  | A-2145-AA 15 B-P913 | 50-29-0044  | A-2145-AA 15 N-102 |

### CUSTOM OPTIONS

|                                                  |                                        |                                                      |                                 |
|--------------------------------------------------|----------------------------------------|------------------------------------------------------|---------------------------------|
| REV:<br><b>W</b>                                 | UCP2003-1297<br>11/24/2003 SAMIEC      | TITLE:<br><b>KK 156 PCB ASSY<br/>2145 SERIES DWG</b> | SHEET No.<br><b>- 8 -</b>       |
| DOCUMENT NUMBER:<br><b>SDA-2145</b>              | CREATED / REVISED BY:<br><b>SAMIEC</b> | CHECKED BY:<br><b>SAMIEC</b>                         | APPROVED BY:<br><b>MARGULIS</b> |
| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC |                                        |                                                      |                                 |



# KK 156 PCB ASSY 2-15 CKT

## 2145 SERIES

|              |                 |
|--------------|-----------------|
| Assy Proc:   | BOTTOM ENTRY    |
| Kinked Term: | NO              |
| Hooks Cut:   | NO              |
| Housing No:  | 2145-**-AN      |
| Terminal No: | 2188-1-P913     |
| Dim C:       | .126 / 3.20     |
| Plating:     | P913 – TIN/LEAD |
| Packaging:   | PK-2145-001     |
| Voids:       | NO              |

|              |                    |
|--------------|--------------------|
| Assy Proc:   | TOP ENTRY          |
| Kinked Term: | NO                 |
| Hooks Cut:   | NO                 |
| Housing No:  | 2145-**-AN         |
| Terminal No: | 2144-BA-A1AA-P913B |
| Dim C:       | .120 / 3.05        |
| Plating:     | P913 – TIN/LEAD    |
| Packaging:   | PK-2145-001        |
| Voids:       | NO                 |

|              |  |
|--------------|--|
| Assy Proc:   |  |
| Kinked Term: |  |
| Hooks Cut:   |  |
| Housing No:  |  |
| Terminal No: |  |
| Dim C:       |  |
| Plating:     |  |
| Packaging:   |  |
| Voids:       |  |

|              |  |
|--------------|--|
| Assy Proc:   |  |
| Kinked Term: |  |
| Hooks Cut:   |  |
| Housing No:  |  |
| Terminal No: |  |
| Dim C:       |  |
| Plating:     |  |
| Packaging:   |  |
| Voids:       |  |

Ckts

|    | Material No | Engineer Number     |
|----|-------------|---------------------|
| 2  | 09-52-5022  | A-2145-BA02J-P913   |
| 3  | 09-52-5032  | A-2145-BA 03 J-P913 |
| 4  | 09-52-5042  | A-2145-BA 04 J-P913 |
| 5  | 09-52-5052  | A-2145-BA 05 J-P913 |
| 6  | 09-52-5062  | A-2145-BA 06 J-P913 |
| 7  | 09-52-5072  | A-2145-BA 07 J-P913 |
| 8  | 09-52-5082  | A-2145-BA 08 J-P913 |
| 9  | 09-52-5092  | A-2145-BA 09 J-P913 |
| 10 | 09-52-5102  | A-2145-BA 10 J-P913 |
| 11 | 09-52-5112  | A-2145-BA 11 J-P913 |
| 12 | 09-52-5122  | A-2145-BA 12 J-P913 |
| 13 | 09-52-5132  | A-2145-BA 13 J-P913 |
| 14 | 09-52-5142  | A-2145-BA 14 J-P913 |
| 15 | 09-52-5152  | A-2145-BA 15 J-P913 |

|  | Material No | Engineer Number     |
|--|-------------|---------------------|
|  | 09-52-2029  | A-2145-CA02B-P913   |
|  | 09-52-2039  | A-2145-CA 03 B-P913 |
|  | 09-52-2049  | A-2145-CA 04 B-P913 |
|  | 09-52-2059  | A-2145-CA 05 B-P913 |
|  | 09-52-2069  | A-2145-CA 06 B-P913 |
|  | 09-52-2079  | A-2145-CA 07 B-P913 |
|  | 09-52-2089  | A-2145-CA 08 B-P913 |
|  | 09-52-2099  | A-2145-CA 09 B-P913 |
|  | 09-52-2109  | A-2145-CA 10 B-P913 |
|  | 09-52-2119  | A-2145-CA 11 B-P913 |
|  | 09-52-2129  | A-2145-CA 12 B-P913 |
|  | 09-52-2139  | A-2145-CA 13 B-P913 |
|  | 09-52-2149  | A-2145-CA 14 B-P913 |
|  | 09-52-2159  | A-2145-CA 15 B-P913 |

|  | Material No | Engineer Number |
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|  | Material No | Engineer Number |
|--|-------------|-----------------|
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### CUSTOM OPTIONS

|                                     |                                        |                                                      |                                 |
|-------------------------------------|----------------------------------------|------------------------------------------------------|---------------------------------|
| REV:<br><b>W</b>                    | UCP2003-1297<br>11/24/2003 SAMIEC      | TITLE:<br><b>KK 156 PCB ASSY<br/>2145 SERIES DWG</b> | SHEET No.<br><b>- 9 -</b>       |
| DOCUMENT NUMBER:<br><b>SDA-2145</b> | CREATED / REVISED BY:<br><b>SAMIEC</b> | CHECKED BY:<br><b>SAMIEC</b>                         | APPROVED BY:<br><b>MARGULIS</b> |



# KK 156 PCB ASSY 2-15 CKT

## 2145 SERIES

|              |             |                 |             |                 |             |                 |             |                 |
|--------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| Assy Proc:   |             | Assy Proc:      |             | Assy Proc:      |             | Assy Proc:      |             |                 |
| Kinked Term: |             | Kinked Term:    |             | Kinked Term:    |             | Kinked Term:    |             |                 |
| Hooks Cut:   |             | Hooks Cut:      |             | Hooks Cut:      |             | Hooks Cut:      |             |                 |
| Housing No:  |             | Housing No:     |             | Housing No:     |             | Housing No:     |             |                 |
| Terminal No: |             | Terminal No:    |             | Terminal No:    |             | Terminal No:    |             |                 |
| Dim C:       |             | Dim C:          |             | Dim C:          |             | Dim C:          |             |                 |
| Plating:     |             | Plating:        |             | Plating:        |             | Plating:        |             |                 |
| Packaging:   |             | Packaging:      |             | Packaging:      |             | Packaging:      |             |                 |
| Voids:       |             | Voids:          |             | Voids:          |             | Voids:          |             |                 |
|              |             |                 |             |                 |             |                 |             |                 |
| Ckts         | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number |
| 2            |             |                 |             |                 |             |                 |             |                 |
| 3            |             |                 |             |                 |             |                 |             |                 |
| 4            |             |                 |             |                 |             |                 |             |                 |
| 5            |             |                 |             |                 |             |                 |             |                 |
| 6            |             |                 |             |                 |             |                 |             |                 |
| 7            |             |                 |             |                 |             |                 |             |                 |
| 8            |             |                 |             |                 |             |                 |             |                 |
| 9            |             |                 |             |                 |             |                 |             |                 |
| 10           |             |                 |             |                 |             |                 |             |                 |
| 11           |             |                 |             |                 |             |                 |             |                 |
| 12           |             |                 |             |                 |             |                 |             |                 |
| 13           |             |                 |             |                 |             |                 |             |                 |
| 14           |             |                 |             |                 |             |                 |             |                 |
| 15           |             |                 |             |                 |             |                 |             |                 |

|                                     |                                        |                                                      |                                 |
|-------------------------------------|----------------------------------------|------------------------------------------------------|---------------------------------|
| REV:<br><b>W</b>                    | UCP2003-1297<br>11/24/2003 SAMIEC      | TITLE:<br><b>KK 156 PCB ASSY<br/>2145 SERIES DWG</b> | SHEET No.<br><b>- 10 -</b>      |
| DOCUMENT NUMBER:<br><b>SDA-2145</b> | CREATED / REVISED BY:<br><b>SAMIEC</b> | CHECKED BY:<br><b>SAMIEC</b>                         | APPROVED BY:<br><b>MARGULIS</b> |

TEMPLATE FILENAME: PRODUCT\_SPEC[SIZE\_A](V.1).DOC

|   |                     |    |             |    |                     |   |                |   |                |      |   |   |   |   |  |   |
|---|---------------------|----|-------------|----|---------------------|---|----------------|---|----------------|------|---|---|---|---|--|---|
|   | 13                  | 12 | 11          | 10 | 9                   | 8 | 7              | 6 |                | 2145 | 4 | 3 | 2 | 1 |  |   |
| J | ENG. NO.            |    | HOUSING NO. |    | TERMINAL NO.        |   | DIM. C         |   | EDP ON SHT/COL |      |   |   |   |   |  | J |
|   | A-2145-AANA(I02)-*  |    | 2145-N-AN   |    | 2144-AA-A IAA-I02B  |   | ( 3.68) / .145 |   | 7 / 1          |      |   |   |   |   |  |   |
|   | A-2145-AANA(I22)-*  |    | 2145-N-AN   |    | 2144-AA-A IAA-I22B  |   | ( 3.68) / .145 |   | 7 / 2          |      |   |   |   |   |  |   |
|   | A-2145-AANA(505)-*  |    | 2145-N-AN   |    | 2144-AA-A IAA-505B  |   | ( 3.68) / .145 |   | 7 / 3          |      |   |   |   |   |  |   |
|   | A-2145-AANA(507)-*  |    | 2145-N-AN   |    | 2144-AA-A IAA-507B  |   | ( 3.68) / .145 |   | 7 / 4          |      |   |   |   |   |  |   |
| I | A-2145-AANB(558)-*  |    | 2145-N-AN   |    | 2144-BA-A IAA-558B  |   | ( 3.68) / .145 |   | 8 / 1          |      |   |   |   |   |  | I |
|   | A-2145-AANA(P913)-* |    | 2145-N-AN   |    | 2144-AA-A IAA-P913B |   | ( 3.68) / .145 |   | 8 / 2          |      |   |   |   |   |  |   |
|   | A-2145-ABNA(I22)-*  |    | 2145-NBK-AN |    | 2144-AA-A IAA-I22B  |   | ( 3.68) / .145 |   | 8 / 3          |      |   |   |   |   |  |   |
|   | A-2145-ABNA(P913)-* |    | 2145-NBK-AN |    | 2144-AA-A IAA-P913B |   | ( 3.68) / .145 |   | 8 / 4          |      |   |   |   |   |  |   |
|   | A-2145-AANA(587)-*  |    | 2145-N-AN   |    | 2144-AA-A IAA-587B  |   | ( 3.68) / .145 |   | 9 / 1          |      |   |   |   |   |  |   |
|   | A-2145-AGNA(P913)-* |    | 2145-N-CN   |    | 2144-AA-A IAA-587B  |   | ( 3.68) / .145 |   | 9 / 2          |      |   |   |   |   |  |   |
| H | A-2145-BANH(I02)-*  |    | 2145-N-AN   |    | 2188-(I02)          |   | ( 4.06) / .160 |   | 9 / 3          |      |   |   |   |   |  | H |
|   | A-2145-BANH(I22)-*  |    | 2145-N-AN   |    | 2188-(I22)          |   | ( 4.06) / .160 |   | 9 / 4          |      |   |   |   |   |  |   |
|   | A-2145-BANL(P913)-* |    | 2145-N-AN   |    | 6298-(P913)         |   | ( 4.06) / .160 |   | 10 / 1         |      |   |   |   |   |  |   |
|   | A-2145-BANL(565)-*  |    | 2145-N-AN   |    | 6298-(565)          |   | ( 4.06) / .160 |   | 10 / 2         |      |   |   |   |   |  |   |
|   | A-2145-BBNH(I22)-*  |    | 2145-NBK-AN |    | 2188-(I22)          |   | ( 4.06) / .160 |   | 10 / 3         |      |   |   |   |   |  |   |
| G | A-2145-CANA(I02)-*  |    | 2145-N-AN   |    | 2144-AA-A IAA-I02B  |   | ( 3.05) / .120 |   | 10 / 4         |      |   |   |   |   |  | G |
|   | A-2145-CANA(I22)-*  |    | 2145-N-AN   |    | 2144-AA-A IAA-I22B  |   | ( 3.05) / .120 |   | 11 / 1         |      |   |   |   |   |  |   |
|   | A-2145-CANB(565)-*  |    | 2145-N-AN   |    | 2144-BA-A IAA-565B  |   | ( 3.05) / .120 |   | 11 / 2         |      |   |   |   |   |  |   |
|   | A-2145-CANC(P913)-* |    | 2145-N-AN   |    | 2144-AA-A2AA-P913B  |   | ( 4.80) / .189 |   | 11 / 3         |      |   |   |   |   |  |   |
|   | A-2145-FGNA(587)-*  |    | 2145-N-CN   |    | 2144-AA-A IAA-587B  |   | ( 3.05) / .120 |   | 11 / 4         |      |   |   |   |   |  |   |
|   | A-2145-FANA(P913)-* |    | 2145-N-AN   |    | 2144-AA-A IAA-P913B |   | ( 3.05) / .120 |   | 12 / 1         |      |   |   |   |   |  |   |
| F | A-2145-DANC(P913)-* |    | 2145-N-AN   |    | 2144-AA-A2AA-P913B  |   | ( 4.80) / .189 |   | 12 / 2         |      |   |   |   |   |  | F |
|   | A-2145-BBNH(P913)-* |    | 2145-NBK-AN |    | 2188-(P913)         |   | ( 4.06) / .160 |   | 12 / 3         |      |   |   |   |   |  |   |
|   | A-2145-CBNA(P913)-* |    | 2145-NBK-AN |    | 2144-AA-A IAA-P913B |   | ( 3.05) / .120 |   | 12 / 4         |      |   |   |   |   |  |   |
|   | A-2145-FGNA(550)-*  |    | 2145-N-CN   |    | 2144-AA-A IAA-550B  |   | ( 3.05) / .120 |   | 13 / 1         |      |   |   |   |   |  |   |
|   | A-2145-BANH(P913)-* |    | 2145-N-AN   |    | 2188-(P913)         |   | ( 4.06) / .160 |   | 13 / 2         |      |   |   |   |   |  |   |
| E | A-2145-BANH(587)-*  |    | 2145-N-AN   |    | 2188-(587)          |   | ( 4.06) / .160 |   | 13 / 3         |      |   |   |   |   |  | E |
|   | A-2145-FANA(503)-*  |    | 2145-N-AN   |    | 2144-AA-A IAA-503B  |   | ( 3.05) / .120 |   | 13 / 4         |      |   |   |   |   |  |   |
|   | A-2145-EANH(P913)-* |    | 2145-N-AN   |    | 2188-(P913)         |   | ( 4.06) / .160 |   | 14 / 1         |      |   |   |   |   |  |   |
|   | A-2145-AANK(P913)-* |    | 2145-N-AN   |    | 4244-(P913)         |   | ( 3.68) / .145 |   | 14 / 2         |      |   |   |   |   |  |   |
|   | A-2145-ABNK(P913)-* |    | 2145-NBK-AN |    | 4244-(P913)         |   | ( 3.68) / .145 |   | 14 / 3         |      |   |   |   |   |  |   |
| D | A-2145-ABNA(587)-*  |    | 2145-NBK-AN |    | 2144-AA-A IAA-587B  |   | ( 3.68) / .145 |   | 14 / 4         |      |   |   |   |   |  | D |
|   | A-2145-AANA-(I09)-* |    | 2145-N-AN   |    | 2144-AA-A IAA-I09B  |   | ( 3.68) / .145 |   | 15 / 1         |      |   |   |   |   |  |   |
|   | A-2145-CANA(P913)-* |    | 2145-N-AN   |    | 2144-AA-A IAA-P913B |   | ( 3.05) / .120 |   | 15 / 2         |      |   |   |   |   |  |   |
|   | A-2145-AANB(I22)-*  |    | 2145-N-AN   |    | 2144-BA-A IAA(I22)B |   | ( 3.68) / .145 |   | 15 / 3         |      |   |   |   |   |  |   |
|   | A-2145-BANL(I22)-*  |    | 2145-N-AN   |    | 6298-(I22)          |   | ( 4.06) / .160 |   | 15 / 4         |      |   |   |   |   |  |   |
|   | A-2145-CANB(I22)-*  |    | 2145-N-AN   |    | 2144-BA-A IAA(I22)B |   | ( 3.05) / .120 |   | 16 / 1         |      |   |   |   |   |  |   |
| C | A-2145-EGNH(P913)-* |    | 2145-N-CN   |    | 2188-(P913)         |   | ( 4.06) / .160 |   | 16 / 2         |      |   |   |   |   |  | C |
|   | A-2145-FGNA(P913)-* |    | 2145-N-CN   |    | 2144-AA-A IAA-P913B |   | ( 3.05) / .120 |   | 16 / 3         |      |   |   |   |   |  |   |
|   | A-2145-CANA(587)-*  |    | 2145-N-AN   |    | 2144-AA-A IAA-587B  |   | ( 3.05) / .120 |   | 16 / 4         |      |   |   |   |   |  |   |
|   | A-2145-BHNH(I22)-*  |    | 2145-NGN-AN |    | 2188-(I22)          |   | ( 4.06) / .160 |   | 17 / 1         |      |   |   |   |   |  |   |
|   | A-2145-BJNH(I22)-*  |    | 2145-NYW-AN |    | 2188-(I22)          |   | ( 4.06) / .160 |   | 17 / 2         |      |   |   |   |   |  |   |
| B | A-2145-BKNH(I22)-*  |    | 2145-NRD-AN |    | 2188-(I22)          |   | ( 4.06) / .160 |   | 17 / 3         |      |   |   |   |   |  | B |
|   |                     |    |             |    |                     |   | /              |   | /              |      |   |   |   |   |  |   |
|   |                     |    |             |    |                     |   |                |   |                |      |   |   |   |   |  |   |
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|   |                     |    |             |    |                     |   |                |   |                |      |   |   |   |   |  |   |
|   |                     |    |             |    |                     |   |                |   |                |      |   |   |   |   |  |   |
|   |                     |    |             |    |                     |   |                |   |                |      |   |   |   |   |  |   |
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|   |                     |    |             |    |                     |   |                |   |                |      |   |   |   |   |  |   |
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|   |                     |    |             |    |                     |   |                |   |                |      |   |   |   |   |  |   |
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|   |                     |    |             |    |                     |   |                |   |                |      |   |   |   |   |  |   |
|   |                     |    |             |    |                     |   |                |   |                |      |   |   |   |   |  |   |
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|   |                     |    |             |    |                     |   |                |   |                |      |   |   |   |   |  |   |
|   |                     |    |             |    |                     |   |                |   |                |      |   |   |   |   |  |   |
|   |                     |    |             |    |                     |   |                |   |                |      |   |   |   |   |  |   |
|   |                     |    |             |    |                     |   |                |   |                |      |   |   |   |   |  |   |
|   |                     |    |             |    |                     |   |                |   |                |      |   |   |   |   |  |   |
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|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|----------------------|--|--|-----------|--|--|------------|--|--|----------------------|--|--|-----------|--|--|------------|--|--|----------------------|--|--|--------------------|--|--|------------|--|--|----------------------|--|--|-----------|--|--|---------------------|--|--|--|--|--|--|--|--|--|--|--|
| 13                 |  |  | 12                   |  |  | 11        |  |  | 10         |  |  | 9                    |  |  | 8         |  |  | 7          |  |  | 6                    |  |  | 2145               |  |  | 4          |  |  | 3                    |  |  | 2         |  |  | 1                   |  |  |  |  |  |  |  |  |  |  |  |
| A-2145-AANB(558)-* |  |  |                      |  |  |           |  |  |            |  |  | A-2145-AANA(P913)-*  |  |  |           |  |  |            |  |  |                      |  |  | A-2145-ABNA(I22)-* |  |  |            |  |  |                      |  |  |           |  |  | A-2145-ABNA(P913)-* |  |  |  |  |  |  |  |  |  |  |  |
| PART NO.           |  |  | ENG. NO(SUFFIX ONLY) |  |  | VOID CKT. |  |  | PART NO.   |  |  | ENG. NO(SUFFIX ONLY) |  |  | VOID CKT. |  |  | PART NO.   |  |  | ENG. NO(SUFFIX ONLY) |  |  | VOID CKT.          |  |  | PART NO.   |  |  | ENG. NO(SUFFIX ONLY) |  |  | VOID CKT. |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  | -AA2B(558)           |  |  |           |  |  | 09-52-3021 |  |  | -AA2A(P913)          |  |  |           |  |  |            |  |  | -AB2A(I22)           |  |  |                    |  |  | 09-53-3021 |  |  | -AB2A(P913)          |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
| 09-62-3035         |  |  | -AA3B(558)           |  |  |           |  |  | 09-52-3031 |  |  | -AA3A(P913)          |  |  |           |  |  |            |  |  | -AB3A(I22)           |  |  |                    |  |  | 09-53-3031 |  |  | -AB3A(P913)          |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
| 09-62-3048         |  |  | -AA4B(558)           |  |  |           |  |  | 09-52-3041 |  |  | -AA4A(P913)          |  |  |           |  |  |            |  |  | -AB4A(I22)           |  |  |                    |  |  | 09-53-3041 |  |  | -AB4A(P913)          |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
| 09-62-3055         |  |  | -AA5B(558)           |  |  |           |  |  | 09-52-3051 |  |  | -AA5A(P913)          |  |  |           |  |  |            |  |  | -AB5A(I22)           |  |  |                    |  |  | 09-53-3051 |  |  | -AB5A(P913)          |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
| 09-62-3065         |  |  | -AA6B(558)           |  |  |           |  |  | 09-52-3061 |  |  | -AA6A(P913)          |  |  |           |  |  |            |  |  | -AB6A(I22)           |  |  |                    |  |  | 09-53-3061 |  |  | -AB6A(P913)          |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  | -AA7B(558)           |  |  |           |  |  | 09-52-3071 |  |  | -AA7A(P913)          |  |  |           |  |  |            |  |  | -AB7A(I22)           |  |  |                    |  |  | 09-53-3071 |  |  | -AB7A(P913)          |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
| 09-62-3085         |  |  | -AA8B(558)           |  |  |           |  |  | 09-52-3081 |  |  | -AA8A(P913)          |  |  |           |  |  | 09-46-3083 |  |  | -AB8A(I22)           |  |  |                    |  |  | 09-53-3081 |  |  | -AB8A(P913)          |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
| 09-62-3095         |  |  | -AA9B(558)           |  |  |           |  |  | 09-52-3091 |  |  | -AA9A(P913)          |  |  |           |  |  |            |  |  | -AB9A(I22)           |  |  |                    |  |  | 09-53-3091 |  |  | -AB9A(P913)          |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
| 09-62-3105         |  |  | -AA10B(558)          |  |  |           |  |  | 09-52-3101 |  |  | -AA10A(P913)         |  |  |           |  |  |            |  |  | -AB10A(I22)          |  |  |                    |  |  | 09-53-3101 |  |  | -AB10A(P913)         |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  | -AA11B(558)          |  |  |           |  |  | 09-52-3111 |  |  | -AA11A(P913)         |  |  |           |  |  |            |  |  | -AB11A(I22)          |  |  |                    |  |  | 09-53-3111 |  |  | -AB11A(P913)         |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
| 09-62-3125         |  |  | -AA12B(558)          |  |  |           |  |  | 09-52-3121 |  |  | -AA12A(P913)         |  |  |           |  |  | 09-46-3123 |  |  | -AB12A(I22)          |  |  |                    |  |  | 09-53-3121 |  |  | -AB12A(P913)         |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  | -AA13B(558)          |  |  |           |  |  | 09-52-3131 |  |  | -AA13A(P913)         |  |  |           |  |  |            |  |  | -AB13A(I22)          |  |  |                    |  |  |            |  |  | -AB13A(P913)         |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
| 09-62-3145         |  |  | -AA14B(558)          |  |  |           |  |  | 09-52-3141 |  |  | -AA14A(P913)         |  |  |           |  |  |            |  |  | -AB14A(I22)          |  |  |                    |  |  | 09-53-3141 |  |  | -AB14A(P913)         |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  | -AA15B(558)          |  |  |           |  |  | 09-52-3151 |  |  | -AA15A(P913)         |  |  |           |  |  |            |  |  | -AB15A(I22)          |  |  |                    |  |  | 09-53-3151 |  |  | -AB15A(P913)         |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  | -AA16B(558)          |  |  |           |  |  |            |  |  | -AA16A(P913)         |  |  |           |  |  |            |  |  | -AB16A(I22)          |  |  |                    |  |  |            |  |  | -AB16A(P913)         |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |  |                      |  |  |           |  |  |            |  |  | </                   |  |  |           |  |  |            |  |  |                      |  |  |                    |  |  |            |  |  |                      |  |  |           |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |

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