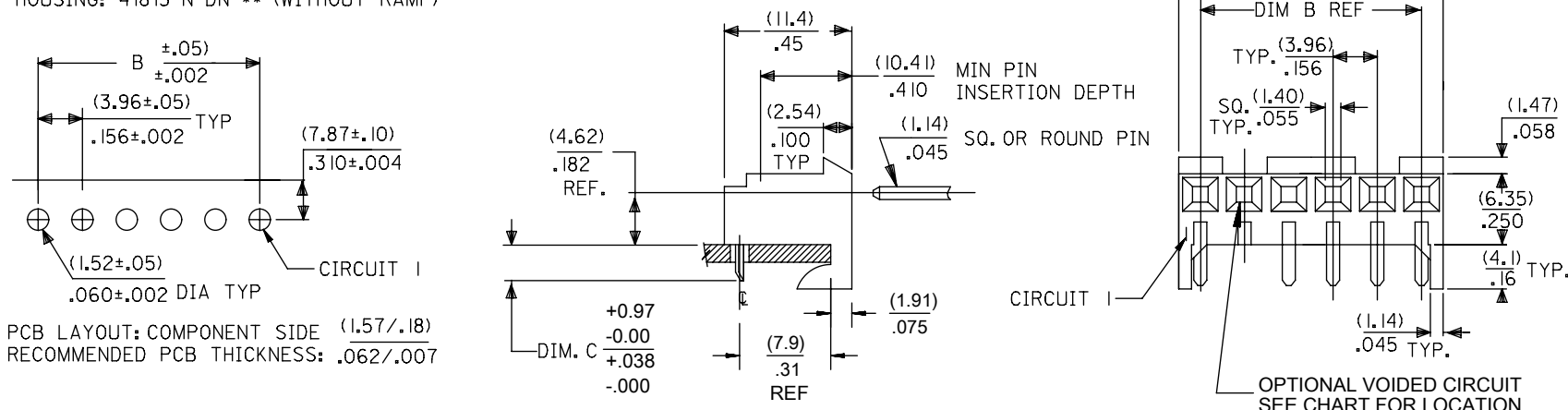


# RIGHT ANGLE

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

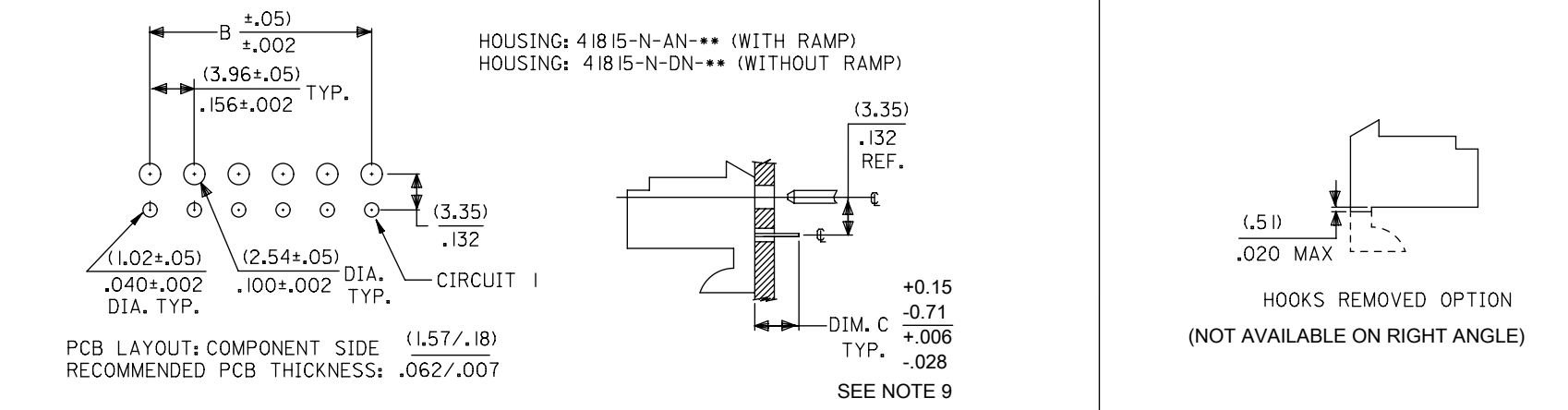


PCB LAYOUT: COMPONENT SIDE (1.57/.18)  
 RECOMMENDED PCB THICKNESS: .062/.007

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

# BOTTOM ENTRY

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

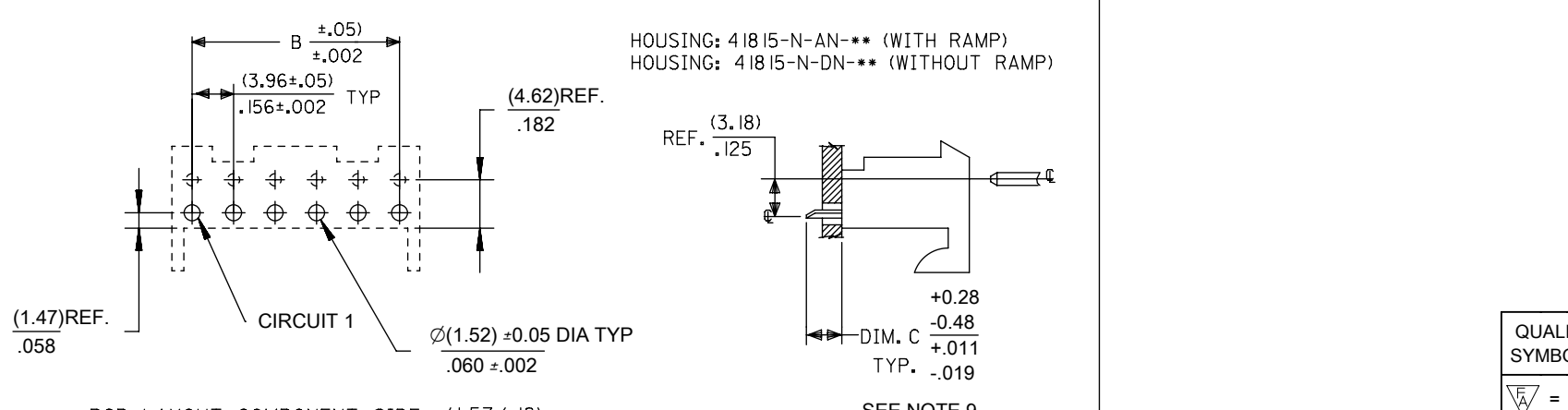


PCB LAYOUT: COMPONENT SIDE (1.57/.18)  
 RECOMMENDED PCB THICKNESS: .062/.007

HOOKS REMOVED OPTION  
 (NOT AVAILABLE ON RIGHT ANGLE)

# TOP ENTRY

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



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

- NOTES:
- MATERIAL: HOUSING: POLYESTER, RATED UL 94V-0, COLOR: NATURAL (WHITE)
  - FINISH:
    - (197) = OVERALL REFLOWED MATTE TIN: 0.00152/.000060 MIN OVER 0.00127/.000050 MIN NICKEL.
    - (208) = SELECT GOLD: 0.00038/.000015 MIN, SELECT TIN: 0.00254/.000100 MIN, OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.
    - (228) = SELECT GOLD: 0.00076/.000030 MIN, SELECT TIN: 0.00254/.000100 MIN, OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.
    - (909) = OVERALL TIN: 0.00254/.000100 MIN.
  - PRODUCT SPECIFICATION: PS-08-50
  - PACKAGING: SEE CHARTS
  - FOR TOP ENTRY AND RIGHT ANGLE ASSEMBLIES WITH LOWER INSERTION FORCE USE SINGLE BEAM CONTACT. (TERMINAL NO. 4244)
  - SOLDERABILITY: WHEN PARTS ARE SOLDERED AT A TEMPERATURE OF 230°C (446°F) FOR 5 SECONDS EACH SOLDERED SURFACE SHALL BE A MINIMUM OF 95% COVERED WITH A SMOOTH CONTINUOUS ADHERENT COATING. FOR ADDITIONAL INFORMATION SEE SMES-152.
  - PARTS ARE STACKABLE END TO END ON (3.96)/.156 CENTERLINE.
  - THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPEC PS-45499-002.
  - DIMENSION 'C' MEASURED WITH TERMINAL PUSHED IN AGAINST THE STOP.

|   |                 |                 |                 |              |  |                                       |                                 |                        |                |     |        |
|---|-----------------|-----------------|-----------------|--------------|--|---------------------------------------|---------------------------------|------------------------|----------------|-----|--------|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                 |                 |                 |              |  |                                       |                                 |                        |                |     |        |
| QUALITY SYMBOLS   | DIM C TOLERANCE | EC NO: 107740   | DRWN: MKIPPER   | CHK'D: JBELL | APPR: FSMITH   | GENERAL TOLERANCES (UNLESS SPECIFIED) |                                 | DIMENSION UNITS        | SCALE          |     |        |
|   |                 |                 |                 |              |  | MM                                    | INCH                            | MM/IN                  | NTS            |     |        |
| ▽ = 0   | ▽ = 0           | 2016/08/22      | 2016/08/24      | 2016/08/26   | 4 PLACES   | ±                                     | ±                               | SAMIEC                 | 1987/01/28     |     |        |
| ▽ = 0   | ▽ = 0           |                 |                 |              | 3 PLACES   | ±                                     | ± 0.01                          | CHK'D BY               | DATE           |     |        |
| ▽ = 0   | ▽ = 0           |                 |                 |              | 2 PLACES   | ± 0.25                                | ± 0.015                         | SAMIEC                 | 1987/01/28     |     |        |
| ▽ = 0   | ▽ = 0           |                 |                 |              | 1 PLACES   | ± 0.38                                | ±                               | APPR BY                | DATE           |     |        |
| ▽ = 0   | ▽ = 0           |                 |                 |              | 0 PLACES   | ±                                     | ±                               | SAMIEC                 | 1987/01/28     |     |        |
| ▽ = 0   | ▽ = 0           |                 |                 |              | ANGULAR TOL ± 0.5                                    |                                       | DRAWING SIZE                    | THIRD ANGLE PROJECTION |                |     |        |
| ▽ = 0   | ▽ = 0           |                 |                 |              | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                                       | <b>B</b>                        |                        |                |     |        |
| AP  | REV             |                 |                 |              | <b>KK 156 HOUSING PCB</b><br><b>41815 SERIES</b>     |                                       | <b>PRODUCT CUSTOMER DRAWING</b> |                        |                |     |        |
|   |                 | SERIES          | MATERIAL NUMBER |              | CUSTOMER   |                                       | 41815                           | SEE CHART              | GENERAL MARKET |     |        |
|   |                 | DOCUMENT NUMBER |                 | DOC TYPE     | DOC PART   | SHEET NUMBER                          |                                 | SDA-41815              | PSD            | 000 | 1 OF * |

|                |              |
|----------------|--------------|
| RELEASE STATUS | RELEASE DATE |
|----------------|--------------|



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

|              |                   |
|--------------|-------------------|
| Assy. Proc:  | RIGHT ANGLE       |
| Housing No:  | 41815-N-AN        |
| Options      | WITH RAMP         |
| Terminal No: | 2144-BA-A1AA-197B |
| Term Matl:   | PHOS BRONZE       |
| Plating:     | 197 TIN           |
| Dim C:       | (3.68) / .145     |
| Voids:       | NONE              |
| Hooks Cut:   | NO                |
| Packaging:   | PK-41815-001 TRAY |

|              |                   |
|--------------|-------------------|
| Assy. Proc:  | RIGHT ANGLE       |
| Housing No:  | 41815-N-AN        |
| Options      | WITH RAMP         |
| Terminal No: | 2144-BA-A1AA-208B |
| Term Matl:   | PHOS BRONZE       |
| Plating:     | 208 – 15 GOLD     |
| Dim C:       | (3.68) / .145     |
| Voids:       | NONE              |
| Hooks Cut:   | NO                |
| Packaging:   | PK-41815-001 TRAY |

|              |                   |
|--------------|-------------------|
| Assy. Proc:  | BOTTOM ENTRY      |
| Housing No:  | 41815-N-AN        |
| Options      | WITH RAMP         |
| Terminal No: | 6298-1-197        |
| Term Matl:   | PHOS BRONZE       |
| Plating:     | 197 – TIN         |
| Dim C:       | (3.18) / .125     |
| Voids:       | NONE              |
| Hooks Cut:   | NO                |
| Packaging:   | PK-41815-001 TRAY |

|              |                   |
|--------------|-------------------|
| Assy. Proc:  | BOTTOM ENTRY      |
| Housing No:  | 41815-N-AN        |
| Options      | WITH RAMP         |
| Terminal No: | 6298-1-208        |
| Term Matl:   | PHOS BRONZE       |
| Plating:     | 208 – 15 GOLD     |
| Dim C:       | (3.18) / .125     |
| Voids:       | NONE              |
| Hooks Cut:   | NO                |
| Packaging:   | PK-41815-001 TRAY |

| Ckts | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number |
|------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| 2    | 09-48-1024  | A-41815-0002    | 09-48-5024  | A-41815-0016    | 09-48-4029  | A-41815-0030    | 09-48-5026  | A-41815-0044    |
| 3    | 09-48-1034  | A-41815-0003    | 09-48-5034  | A-41815-0017    | 09-48-4039  | A-41815-0031    | 09-48-5036  | A-41815-0045    |
| 4    | 09-48-1044  | A-41815-0004    | 09-48-5044  | A-41815-0018    | 09-48-4049  | A-41815-0032    | 09-48-5046  | A-41815-0046    |
| 5    | 09-48-1054  | A-41815-0005    | 09-48-5054  | A-41815-0019    | 09-48-4059  | A-41815-0033    | 09-48-5056  | A-41815-0047    |
| 6    | 09-48-1064  | A-41815-0006    | 09-48-5064  | A-41815-0020    | 09-48-4069  | A-41815-0034    | 09-48-5066  | A-41815-0048    |
| 7    | 09-48-1074  | A-41815-0007    | 09-48-5074  | A-41815-0021    | 09-48-4079  | A-41815-0035    | 09-48-5076  | A-41815-0049    |
| 8    | 09-48-1084  | A-41815-0008    | 09-48-5084  | A-41815-0022    | 09-48-4089  | A-41815-0036    | 09-48-5086  | A-41815-0050    |
| 9    | 09-48-1094  | A-41815-0009    | 09-48-5094  | A-41815-0023    | 09-48-4099  | A-41815-0037    | 09-48-5096  | A-41815-0051    |
| 10   | 09-48-1104  | A-41815-0010    | 09-48-5104  | A-41815-0024    | 09-48-4109  | A-41815-0038    | 09-48-5106  | A-41815-0052    |
| 11   | 09-48-1114  | A-41815-0011    | 09-48-5114  | A-41815-0025    | 09-48-4119  | A-41815-0039    | 09-48-5116  | A-41815-0053    |
| 12   | 09-48-1124  | A-41815-0012    | 09-48-5124  | A-41815-0026    | 09-48-4129  | A-41815-0040    | 09-48-5126  | A-41815-0054    |
| 13   | 09-48-1134  | A-41815-0013    | 09-48-5134  | A-41815-0027    | 09-48-4139  | A-41815-0041    | 09-48-5136  | A-41815-0055    |
| 14   | 09-48-1144  | A-41815-0014    | 09-48-5144  | A-41815-0028    | 09-48-4149  | A-41815-0042    | 09-48-5146  | A-41815-0056    |
| 15   | 09-48-1154  | A-41815-0015    | 09-48-5154  | A-41815-0029    | 09-48-4159  | A-41815-0043    | 09-48-5156  | A-41815-0057    |

|                  |                      |                       |   |                |
|------------------|----------------------|-----------------------|---|----------------|
| REV:             | ECR/ECN INFORMATION: |                       | TITLE:  | SHEET No.      |
| <b>AN4</b>       | EC NO.               | 121254                | <b>KK 156 HOUSING ASSY PCB<br/>41815 SERIES DWG</b> | <b>- 2 -</b>   |
|                  | DATE:                | 8/30/2017             |   |                |
| DOCUMENT NUMBER: |                      | CREATED / REVISED BY: | CHECKED BY:   | APPROVED BY:   |
| <b>SDA-41815</b> |                      | <b>SS06</b>           | <b>SS06</b>   | <b>ISHWARG</b> |



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

|              |                   |              |                   |              |                   |              |                    |
|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|--------------------|
| Assy. Proc:  | TOP ENTRY         | Assy. Proc:  | TOP ENTRY         | Assy. Proc:  | BOTTOM ENTRY      | Assy. Proc:  | TOP ENTRY          |
| Housing No:  | 41815-N-AN        | Housing No:  | 41815-N-AN        | Housing No:  | 41815-N-AN        | Housing No:  | 41815-N-AN         |
| Options:     | WITH RAMP         | Options:     | WITH RAMP         | Options:     | WITH RAMP         | Options:     | WITH RAMP          |
| Terminal No: | 2144-BA-A1AA-197B | Terminal No: | 2144-BA-A1AA-208B | Terminal No: | 2188-1-P909       | Terminal No: | 2144-AA-A1AA-P909B |
| Term Matl:   | PHOS BRONZE       | Term Matl:   | PHOS BRONZE       | Term Matl:   | BRASS             | Term Matl:   | BRASS              |
| Plating:     | 197 – TIN         | Plating:     | 208 – 15 GOLD     | Plating:     | P909 – TIN        | Plating:     | P909 – TIN         |
| Dim C:       | (3.05) / .120     | Dim C:       | (3.05) / .120     | Dim C:       | (3.18) / .125     | Dim C:       | (3.05) / .120      |
| Voids:       | NONE              | Voids:       | NONE              | Voids:       | NONE              | Voids:       | NONE               |
| Hooks Cut:   | NO                | Hooks Cut:   | NO                | Hooks Cut:   | NO                | Hooks Cut:   | YES                |
| Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY  |

| Ckts | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number |
|------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| 2    | 09-48-4028  | A-41815-0058    | 09-48-5025  | A-41815-0072    | 09-48-2022  | A-41815-0100    | 09-48-2025  | A-41815-0114    |
| 3    | 09-48-4038  | A-41815-0059    | 09-48-5035  | A-41815-0073    | 09-48-2032  | A-41815-0101    | 09-48-2035  | A-41815-0115    |
| 4    | 09-48-4048  | A-41815-0060    | 09-48-5045  | A-41815-0074    | 09-48-2042  | A-41815-0102    | 09-48-2045  | A-41815-0116    |
| 5    | 09-48-4058  | A-41815-0061    | 09-48-5055  | A-41815-0075    | 09-48-2052  | A-41815-0103    | 09-48-2055  | A-41815-0117    |
| 6    | 09-48-4068  | A-41815-0062    | 09-48-5065  | A-41815-0076    | 09-48-2062  | A-41815-0104    | 09-48-2065  | A-41815-0118    |
| 7    | 09-48-4078  | A-41815-0063    | 09-48-5075  | A-41815-0077    | 09-48-2072  | A-41815-0105    | 09-48-2075  | A-41815-0119    |
| 8    | 09-48-4088  | A-41815-0064    | 09-48-5085  | A-41815-0078    | 09-48-2082  | A-41815-0106    | 09-48-2085  | A-41815-0120    |
| 9    | 09-48-4098  | A-41815-0065    | 09-48-5095  | A-41815-0079    | 09-48-2092  | A-41815-0107    | 09-48-2095  | A-41815-0121    |
| 10   | 09-48-4108  | A-41815-0066    | 09-48-5105  | A-41815-0080    | 09-48-2102  | A-41815-0108    | 09-48-2105  | A-41815-0122    |
| 11   | 09-48-4118  | A-41815-0067    | 09-48-5115  | A-41815-0081    | 09-48-2112  | A-41815-0109    | 09-48-2115  | A-41815-0123    |
| 12   | 09-48-4128  | A-41815-0068    | 09-48-5125  | A-41815-0082    | 09-48-2122  | A-41815-0110    | 09-48-2125  | A-41815-0124    |
| 13   | 09-48-4138  | A-41815-0069    | 09-48-5135  | A-41815-0083    | 09-48-2132  | A-41815-0111    | 09-48-2135  | A-41815-0125    |
| 14   | 09-48-4148  | A-41815-0070    | 09-48-5145  | A-41815-0084    | 09-48-2142  | A-41815-0112    | 09-48-2145  | A-41815-0126    |
| 15   | 09-48-4158  | A-41815-0071    | 09-48-5155  | A-41815-0085    | 09-48-2152  | A-41815-0113    | 09-48-2155  | A-41815-0127    |

|                  |                      |   |             |
|------------------|----------------------|---|-------------|
| REV:             | ECR/ECN INFORMATION: | TITLE:                                      | SHEET No.   |
| AN4              | EC NO.               | KK 156 HOUSING ASSY PCB<br>41815 SERIES DWG | - 3 -       |
|                  | DATE:                |   |             |
|                  | 121254               |   |             |
|                  | 8/30/2017            |   |             |
| DOCUMENT NUMBER: |                      | CREATED / REVISED BY:                       | CHECKED BY: |
| SDA-41815        |                      | SS06  | SS06        |
|                  |                      | APPROVED BY:                                |             |
|                  |                      | ISHWARG                                     |             |



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

|              |  |              |                   |              |                   |              |                    |
|--------------|--|--------------|-------------------|--------------|-------------------|--------------|--------------------|
| Assy. Proc:  |  | Assy. Proc:  | BOTTOM ENTRY      | Assy. Proc:  | BOTTOM ENTRY      | Assy. Proc:  | RIGHT ANGLE        |
| Housing No:  |  | Housing No:  | 41815-N-AN        | Housing No:  | 41815-N-AN        | Housing No:  | 41815-N-AN         |
| Options      |  | Options      | WITH RAMP         | Options      | WITH RAMP         | Options      | WITH RAMP          |
| Terminal No: |  | Terminal No: | 6298-197          | Terminal No: | 2188-1-228        | Terminal No: | 2144-AA-A1AA-P909B |
| Term Matl:   |  | Term Matl:   | PHOS BRONZE       | Term Matl:   | BRASS             | Term Matl:   | BRASS              |
| Plating:     |  | Plating:     | 197 – TIN         | Plating:     | 228 – GOLD        | Plating:     | P909 – TIN         |
| Dim C:       |  | Dim C:       | (4.06) / .160     | Dim C:       | (3.18) / .125     | Dim C:       | (3.68) / .145      |
| Voids:       |  | Voids:       | NONE              | Voids:       | NONE              | Voids:       | NONE               |
| Hooks Cut:   |  | Hooks Cut:   | NO                | Hooks Cut:   | NO                | Hooks Cut:   | NO                 |
| Packaging:   |  | Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY  |

| Ckts | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number |
|------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| 2    |             |                 | 09-48-4021  | A-41815-0170    | 41815-0184  | A-41815-0184    | 09-48-2021  | A-41815-0198    |
| 3    |             |                 | 09-48-4031  | A-41815-0171    | 09-48-5030  | A-41815-0185    | 09-48-2031  | A-41815-0199    |
| 4    |             |                 | 09-48-4041  | A-41815-0172    | 09-48-5040  | A-41815-0186    | 09-48-2041  | A-41815-0200    |
| 5    |             |                 | 09-48-4051  | A-41815-0173    | 09-48-5050  | A-41815-0187    | 09-48-2051  | A-41815-0201    |
| 6    |             |                 | 09-48-4061  | A-41815-0174    | 41815-0188  | A-41815-0188    | 09-48-2061  | A-41815-0202    |
| 7    |             |                 | 09-48-4071  | A-41815-0175    | 41815-0189  | A-41815-0189    | 09-48-2071  | A-41815-0203    |
| 8    |             |                 | 09-48-4081  | A-41815-0176    | 09-48-5080  | A-41815-0190    | 09-48-2081  | A-41815-0204    |
| 9    |             |                 | 09-48-4091  | A-41815-0177    | 41815-0191  | A-41815-0191    | 09-48-2091  | A-41815-0205    |
| 10   |             |                 | 09-48-4101  | A-41815-0178    | 09-48-5100  | A-41815-0192    | 09-48-2101  | A-41815-0206    |
| 11   |             |                 | 09-48-4111  | A-41815-0179    | 41815-0193  | A-41815-0193    | 09-48-2111  | A-41815-0207    |
| 12   |             |                 | 09-48-4121  | A-41815-0180    | 41815-0194  | A-41815-0194    | 09-48-2121  | A-41815-0208    |
| 13   |             |                 | 09-48-4131  | A-41815-0181    | 41815-0195  | A-41815-0195    | 09-48-2131  | A-41815-0209    |
| 14   |             |                 | 09-48-4141  | A-41815-0182    | 41815-0196  | A-41815-0196    | 09-48-2141  | A-41815-0210    |
| 15   |             |                 | 09-48-4151  | A-41815-0183    | 41815-0197  | A-41815-0197    | 09-48-2151  | A-41815-0211    |

|                                   |                        |   |                         |
|-----------------------------------|------------------------|---|-------------------------|
| REV:                              | ECR/ECN INFORMATION:   | TITLE:  | SHEET No.               |
| <b>AN4</b>                        | EC NO. <b>121254</b>   | <b>KK 156 HOUSING ASSY PCB<br/>41815 SERIES DWG</b> | <b>- 4 -</b>            |
|                                   | DATE: <b>8/30/2017</b> |   |                         |
| DOCUMENT NUMBER: <b>SDA-41815</b> |                        | CREATED / REVISED BY: <b>SS06</b>                   | CHECKED BY: <b>SS06</b> |
|                                   |                        | APPROVED BY: <b>ISHWARG</b>                         |                         |



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

|              |                   |              |                   |              |  |              |                    |
|--------------|-------------------|--------------|-------------------|--------------|--|--------------|--------------------|
| Assy. Proc:  | RIGHT ANGLE       | Assy. Proc:  | BOTTOM ENTRY      | Assy. Proc:  |  | Assy. Proc:  | TOP ENTRY          |
| Housing No:  | 41815-N-AN        | Housing No:  | 41815-N-DN        | Housing No:  |  | Housing No:  | 41815-N-DN         |
| Options      | WITH RAMP         | Options      | NO RAMPS          | Options      |  | Options      | NO RAMPS           |
| Terminal No: | 2144-AA-A1AA-228B | Terminal No: | 2188-P909         | Terminal No: |  | Terminal No: | 2144-AA-A1AA-P909B |
| Term Matl:   | BRASS             | Term Matl:   | BRASS             | Term Matl:   |  | Term Matl:   | BRASS              |
| Plating:     | 228 – GOLD        | Plating:     | P909 – TIN        | Plating:     |  | Plating:     | P909 – TIN         |
| Dim C:       | (3.68) / .145     | Dim C:       | (4.06) / .160     | Dim C:       |  | Dim C:       | (3.05) / .120      |
| Voids:       | NONE              | Voids:       | NONE              | Voids:       |  | Voids:       | NONE               |
| Hooks Cut:   | NO                | Hooks Cut:   | YES               | Hooks Cut:   |  | Hooks Cut:   | NO                 |
| Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY | Packaging:   |  | Packaging:   | PK-41815-001 TRAY  |

| Ckts | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number |
|------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| 2    | 09-48-5023  | A-41815-0313    | 41815-0327  | A-41815-0327    |             |                 | 41815-0355  | A-41815-0355    |
| 3    | 09-48-5033  | A-41815-0314    | 41815-0328  | A-41815-0328    |             |                 | 41815-0356  | A-41815-0356    |
| 4    | 09-48-5043  | A-41815-0315    | 41815-0329  | A-41815-0329    |             |                 | 09-48-2047  | A-41815-0357    |
| 5    | 09-48-5053  | A-41815-0316    | 09-48-2056  | A-41815-0330    |             |                 | 41815-0358  | A-41815-0358    |
| 6    | 09-48-5063  | A-41815-0317    | 41815-0331  | A-41815-0331    |             |                 | 41815-0359  | A-41815-0359    |
| 7    | 09-48-5073  | A-41815-0318    | 41815-0332  | A-41815-0332    |             |                 | 41815-0360  | A-41815-0360    |
| 8    | 09-48-5083  | A-41815-0319    | 09-48-2086  | A-41815-0333    |             |                 | 41815-0361  | A-41815-0361    |
| 9    | 09-48-5093  | A-41815-0320    | 41815-0334  | A-41815-0334    |             |                 | 41815-0362  | A-41815-0362    |
| 10   | 09-48-5103  | A-41815-0321    | 09-48-2106  | A-41815-0335    |             |                 | 09-48-2107  | A-41815-0363    |
| 11   | 09-48-5113  | A-41815-0322    | 41815-0336  | A-41815-0336    |             |                 | 41815-0364  | A-41815-0364    |
| 12   | 09-48-5123  | A-41815-0323    | 41815-0337  | A-41815-0337    |             |                 | 41815-0365  | A-41815-0365    |
| 13   | 09-48-5133  | A-41815-0324    | 41815-0338  | A-41815-0338    |             |                 | 41815-0366  | A-41815-0366    |
| 14   | 09-48-5143  | A-41815-0325    | 41815-0339  | A-41815-0339    |             |                 | 41815-0367  | A-41815-0367    |
| 15   | 09-48-5153  | A-41815-0326    | 41815-0340  | A-41815-0340    |             |                 | 41815-0368  | A-41815-0368    |

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



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

|              |                   |              |  |              |                   |              |                   |
|--------------|-------------------|--------------|--|--------------|-------------------|--------------|-------------------|
| Assy. Proc:  | RIGHT ANGLE       | Assy. Proc:  |  | Assy. Proc:  | RIGHT ANGLE       | Assy. Proc:  | BOTTOM ENTRY      |
| Housing No:  | 41815-N-AN        | Housing No:  |  | Housing No:  | 41815-N-AN        | Housing No:  | 41815-N-AN        |
| Options      | WITH RAMP         | Options      |  | Options      | WITH RAMP         | Options      | WITH RAMP         |
| Terminal No: | 4244-A-197A       | Terminal No: |  | Terminal No: | 2144-AA-A1AA-208B | Terminal No: | 2188-1-208        |
| Term Matl:   | PHOS BRONZE       | Term Matl:   |  | Term Matl:   | BRASS             | Term Matl:   | BRASS             |
| Plating:     | 197 – TIN         | Plating:     |  | Plating:     | 208 – 15 GOLD     | Plating:     | 208 – 15 GOLD     |
| Dim C:       | (3.68) / .145     | Dim C:       |  | Dim C:       | (3.68) / .145     | Dim C:       | (3.18) / .125     |
| Voids:       | NONE              | Voids:       |  | Voids:       | NONE              | Voids:       | NONE              |
| Hooks Cut:   | NO                | Hooks Cut:   |  | Hooks Cut:   | NO                | Hooks Cut:   | NO                |
| Packaging:   | PK-41815-001 TRAY | Packaging:   |  | Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY |

| Ckts | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number |
|------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| 2    | 09-48-1023  | A-41815-0369    |             |                 | 09-48-3025  | A-41815-0425    | 09-48-3024  | A-41815-0439    |
| 3    | 09-48-1033  | A-41815-0370    |             |                 | 09-48-3035  | A-41815-0426    | 09-48-3034  | A-41815-0440    |
| 4    | 09-48-1043  | A-41815-0371    |             |                 | 09-48-3045  | A-41815-0427    | 09-48-3044  | A-41815-0441    |
| 5    | 09-48-1053  | A-41815-0372    |             |                 | 09-48-3055  | A-41815-0428    | 09-48-3054  | A-41815-0442    |
| 6    | 09-48-1063  | A-41815-0373    |             |                 | 09-48-3065  | A-41815-0429    | 09-48-3064  | A-41815-0443    |
| 7    | 09-48-1073  | A-41815-0374    |             |                 | 09-48-3075  | A-41815-0430    | 09-48-3074  | A-41815-0444    |
| 8    | 09-48-1083  | A-41815-0375    |             |                 | 09-48-3085  | A-41815-0431    | 09-48-3084  | A-41815-0445    |
| 9    | 09-48-1093  | A-41815-0376    |             |                 | 09-48-3095  | A-41815-0432    | 09-48-3094  | A-41815-0446    |
| 10   | 09-48-1103  | A-41815-0377    |             |                 | 09-48-3105  | A-41815-0433    | 09-48-3104  | A-41815-0447    |
| 11   | 09-48-1113  | A-41815-0378    |             |                 | 09-48-3115  | A-41815-0434    | 09-48-3114  | A-41815-0448    |
| 12   | 09-48-1123  | A-41815-0379    |             |                 | 09-48-3125  | A-41815-0435    | 09-48-3124  | A-41815-0449    |
| 13   | 09-48-1133  | A-41815-0380    |             |                 | 09-48-3135  | A-41815-0436    | 09-48-3134  | A-41815-0450    |
| 14   | 09-48-1143  | A-41815-0381    |             |                 | 09-48-3145  | A-41815-0437    | 09-48-3144  | A-41815-0451    |
| 15   | 09-48-1153  | A-41815-0382    |             |                 | 09-48-3155  | A-41815-0438    | 09-48-3154  | A-41815-0452    |

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



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

|              |                    |              |                   |              |                    |              |                   |
|--------------|--------------------|--------------|-------------------|--------------|--------------------|--------------|-------------------|
| Assy. Proc:  | TOP ENTRY          | Assy. Proc:  | TOP ENTRY         | Assy. Proc:  | RIGHT ANGLE        | Assy. Proc:  | BOTTOM ENTRY      |
| Housing No:  | 41815-N-AN         | Housing No:  | 41815-N-AN        | Housing No:  | 41815-N-AN         | Housing No:  | 41815-N-AN        |
| Options      | WITH RAMP          | Options      | WITH RAMP         | Options      | WITH RAMP          | Options      | WITH RAMP         |
| Terminal No: | 2144-AA-A1AA-P909B | Terminal No: | 2144-AA-A1AA-208B | Terminal No: | 2144-BA-A1AA-P909B | Terminal No: | 6298-1-P909       |
| Term Matl:   | BRASS              | Term Matl:   | BRASS             | Term Matl:   | PHOS BRONZE        | Term Matl:   | PHOS BRONZE       |
| Plating:     | P909 – TIN         | Plating:     | 208 – 15 GOLD     | Plating:     | P909 – TIN         | Plating:     | P909 – TIN        |
| Dim C:       | (3.05) / .120      | Dim C:       | (3.05) / .120     | Dim C:       | (3.68) / .145      | Dim C:       | (3.18) / .125     |
| Voids:       | NONE               | Voids:       | NONE              | Voids:       | NONE               | Voids:       | NONE              |
| Hooks Cut:   | NO                 | Hooks Cut:   | NO                | Hooks Cut:   | NO                 | Hooks Cut:   | NO                |
| Packaging:   | PK-41815-001 TRAY  | Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY  | Packaging:   | PK-41815-001 TRAY |

| Ckts | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number |
|------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| 2    | 09-48-2023  | A-41815-0453    | 09-48-3026  | A-41815-0467    | 09-48-2020  | A-41815-0481    | 09-48-2029  | A-41815-0495    |
| 3    | 09-48-2033  | A-41815-0454    | 09-48-3036  | A-41815-0468    | 09-48-2030  | A-41815-0482    | 09-48-2039  | A-41815-0496    |
| 4    | 09-48-2043  | A-41815-0455    | 09-48-3046  | A-41815-0469    | 09-48-2040  | A-41815-0483    | 09-48-2049  | A-41815-0497    |
| 5    | 09-48-2053  | A-41815-0456    | 09-48-3056  | A-41815-0470    | 09-48-2050  | A-41815-0484    | 09-48-2059  | A-41815-0498    |
| 6    | 09-48-2063  | A-41815-0457    | 09-48-3066  | A-41815-0471    | 09-48-2060  | A-41815-0485    | 09-48-2069  | A-41815-0499    |
| 7    | 09-48-2073  | A-41815-0458    | 09-48-3076  | A-41815-0472    | 09-48-2070  | A-41815-0486    | 09-48-2079  | A-41815-0500    |
| 8    | 09-48-2083  | A-41815-0459    | 09-48-3086  | A-41815-0473    | 09-48-2080  | A-41815-0487    | 09-48-2089  | A-41815-0501    |
| 9    | 09-48-2093  | A-41815-0460    | 09-48-3096  | A-41815-0474    | 09-48-2090  | A-41815-0488    | 09-48-2099  | A-41815-0502    |
| 10   | 09-48-2103  | A-41815-0461    | 09-48-3106  | A-41815-0475    | 09-48-2100  | A-41815-0489    | 09-48-2109  | A-41815-0503    |
| 11   | 09-48-2113  | A-41815-0462    | 09-48-3116  | A-41815-0476    | 09-48-2110  | A-41815-0490    | 09-48-2119  | A-41815-0504    |
| 12   | 09-48-2123  | A-41815-0463    | 09-48-3126  | A-41815-0477    | 09-48-2120  | A-41815-0491    | 09-48-2129  | A-41815-0505    |
| 13   | 09-48-2133  | A-41815-0464    | 09-48-3136  | A-41815-0478    | 09-48-2130  | A-41815-0492    | 09-48-2139  | A-41815-0506    |
| 14   | 09-48-2143  | A-41815-0465    | 09-48-3146  | A-41815-0479    | 09-48-2140  | A-41815-0493    | 09-48-2149  | A-41815-0507    |
| 15   | 09-48-2153  | A-41815-0466    | 09-48-3156  | A-41815-0480    | 09-48-2150  | A-41815-0494    | 09-48-2159  | A-41815-0508    |

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



## KK 156 PCB ASSY 2-15 CKT

### 41815 SERIES

|      | Assy. Proc:  | TOP ENTRY          | Assy. Proc:  | TOP ENTRY         | Assy. Proc:  | TOP ENTRY         | Assy. Proc:  | BOTTOM ENTRY      |
|------|--------------|--------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|
|      | Housing No:  | 41815-N-AN         | Housing No:  | 41815-N-AN        | Housing No:  | 41815-N-AN        | Housing No:  | 41815-N-AN        |
|      | Options      | WITH RAMP          | Options      | WITH RAMP         | Options      | WITH RAMP         | Options      | WITH RAMP         |
|      | Terminal No: | 2144-BA-A1AA-P909B | Terminal No: | 2144-BA-A1AA-197B | Terminal No: | 2144-BA-A1AA-208B | Terminal No: | 2188-1-208        |
|      | Term Matl:   | PHOS BRONZE        | Term Matl:   | PHOS BRONZE       | Term Matl:   | PHOS BRONZE       | Term Matl:   | BRASS             |
|      | Plating:     | P909 – TIN         | Plating:     | 197 – TIN         | Plating:     | 208 – 15 GOLD     | Plating:     | 208 – 15 GOLD     |
|      | Dim C:       | (3.05) / .120      | Dim C:       | (3.05) / .120     | Dim C:       | (3.05) / .120     | Dim C:       | (3.18) / .125     |
|      | Voids:       | NONE               | Voids:       | NONE              | Voids:       | NONE              | Voids:       | TERMINAL VOID 2   |
|      | Hooks Cut:   | NO                 | Hooks Cut:   | YES               | Hooks Cut:   | YES               | Hooks Cut:   | NO                |
|      | Packaging:   | PK-41815-001 TRAY  | Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY |
|      |              |                    |              |                   |              |                   |              |                   |
| Ckts | Material No  | Engineer Number    | Material No  | Engineer Number   | Material No  | Engineer Number   | Material No  | Engineer Number   |
| 2    | 09-48-2028   | A-41815-0509       | 09-48-5028   | A-41815-0523      | 09-48-1025   | A-41815-0537      |              |                   |
| 3    | 09-48-2038   | A-41815-0510       | 09-48-5038   | A-41815-0524      | 09-48-1035   | A-41815-0538      | 41815-0551   | 41815-0551        |
| 4    | 09-48-2048   | A-41815-0511       | 09-48-5048   | A-41815-0525      | 09-48-1045   | A-41815-0539      | 41815-0552   | 41815-0552        |
| 5    | 09-48-2058   | A-41815-0512       | 09-48-5058   | A-41815-0526      | 09-48-1055   | A-41815-0540      | 41815-0553   | 41815-0553        |
| 6    | 09-48-2068   | A-41815-0513       | 09-48-5068   | A-41815-0527      | 09-48-1065   | A-41815-0541      | 41815-0554   | 41815-0554        |
| 7    | 09-48-2078   | A-41815-0514       | 09-48-5078   | A-41815-0528      | 09-48-1075   | A-41815-0542      | 41815-0555   | 41815-0555        |
| 8    | 09-48-2088   | A-41815-0515       | 09-48-5088   | A-41815-0529      | 09-48-1085   | A-41815-0543      | 41815-0556   | 41815-0556        |
| 9    | 09-48-2098   | A-41815-0516       | 09-48-5098   | A-41815-0530      | 09-48-1095   | A-41815-0544      | 41815-0557   | 41815-0557        |
| 10   | 09-48-2108   | A-41815-0517       | 09-48-5108   | A-41815-0531      | 09-48-1105   | A-41815-0545      | 41815-0558   | 41815-0558        |
| 11   | 09-48-2118   | A-41815-0518       | 09-48-5118   | A-41815-0532      | 09-48-1115   | A-41815-0546      | 41815-0559   | 41815-0559        |
| 12   | 09-48-2128   | A-41815-0519       | 09-48-5128   | A-41815-0533      | 09-48-1125   | A-41815-0547      | 41815-0560   | 41815-0560        |
| 13   | 09-48-2138   | A-41815-0520       | 09-48-5138   | A-41815-0534      | 09-48-1135   | A-41815-0548      | 41815-0561   | 41815-0561        |
| 14   | 09-48-2148   | A-41815-0521       | 09-48-5148   | A-41815-0535      | 09-48-1145   | A-41815-0549      | 41815-0562   | 41815-0562        |
| 15   | 09-48-2158   | A-41815-0522       | 09-48-5158   | A-41815-0536      | 09-48-1155   | A-41815-0550      | 41815-0563   | 41815-0563        |

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





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

|              |                   |              |                   |              |                   |              |                   |
|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|
| Assy. Proc:  | BOTTOM ENTRY      | Assy. Proc:  | BOTTOM ENTRY      | Assy. Proc:  | RIGHT ANGLE       | Assy. Proc:  | TOP ENTRY         |
| Housing No:  | 41815-N-DN        | Housing No:  | 41815-N-DN        | Housing No:  | 41815-N-A15-7     | Housing No:  | 41815-N-DN        |
| Options      | WITHOUT RAMPS     | Options      | WITHOUT RAMPS     | Options      | WITH RAMP         | Options      | WITHOUT RAMP      |
| Terminal No: | 6298-1-197        | Terminal No: | 6298-1-197        | Terminal No: | 2144-BA-A1AA-197B | Terminal No: | 2144-BA-A1AA-197B |
| Term Matl:   | PHOS BRONZE       | Term Matl:   | PHOS BRONZE       | Term Matl:   | PHOS BRONZE       | Term Matl:   | PHOS BRONZE       |
| Plating:     | 197 – TIN         | Plating:     | 197 – TIN         | Plating:     | 197 – TIN         | Plating:     | 197 – TIN         |
| Dim C:       | 3.18 / .125       | Dim C:       | 3.18 / .125       | Dim C:       | (3.68) / .145     | Dim C:       | (3.05)/.120       |
| Voids:       | NONE              | Voids:       | TERMINAL VOID 2   | Voids:       | TERMINAL VOID 7   | Voids:       | NONE              |
| Hooks Cut:   | NO                | Hooks Cut:   | NO                | Hooks Cut:   | NO                | Hooks Cut:   | YES               |
| Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY |

| Ckts | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number |
|------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| 2    | 41815-0564  | A-41815-0564    |             |                 |             |                 | 41815-0601  | A-41815-0601    |
| 3    | 41815-0565  | A-41815-0565    | 41815-0579  | A-41815-0579    |             |                 | 41815-0602  | A-41815-0602    |
| 4    | 41815-0566  | A-41815-0566    | 41815-0580  | A-41815-0580    |             |                 |             |                 |
| 5    | 41815-0567  | A-41815-0567    | 41815-0581  | A-41815-0581    |             |                 |             |                 |
| 6    | 41815-0568  | A-41815-0568    | 41815-0582  | A-41815-0582    |             |                 | 41815-0605  | A-41815-0605    |
| 7    | 41815-0569  | A-41815-0569    | 41815-0583  | A-41815-0583    |             |                 |             |                 |
| 8    | 41815-0570  | A-41815-0570    | 41815-0584  | A-41815-0584    |             |                 |             |                 |
| 9    | 41815-0571  | A-41815-0571    | 41815-0585  | A-41815-0585    |             |                 |             |                 |
| 10   | 41815-0572  | A-41815-0572    | 41815-0586  | A-41815-0586    |             |                 |             |                 |
| 11   | 41815-0573  | A-41815-0573    | 41815-0587  | A-41815-0587    |             |                 |             |                 |
| 12   | 41815-0574  | A-41815-0574    | 41815-0588  | A-41815-0588    |             |                 |             |                 |
| 13   | 41815-0575  | A-41815-0575    | 41815-0589  | A-41815-0589    |             |                 |             |                 |
| 14   | 41815-0576  | A-41815-0576    | 41815-0590  | A-41815-0590    |             |                 |             |                 |
| 15   | 41815-0577  | A-41815-0577    | 41815-0591  | A-41815-0591    | 41815-0600  | A-41815-0600    |             |                 |

|                                   |                      |   |                         |
|-----------------------------------|----------------------|---|-------------------------|
| REV:                              | ECR/ECN INFORMATION: | TITLE:                                      | SHEET No.               |
| AN4                               | EC NO.    121254     | KK 156 HOUSING ASSY PCB<br>41815 SERIES DWG | - 9 -                   |
|                                   | DATE:    8/30/2017   |   |                         |
| DOCUMENT NUMBER: <b>SDA-41815</b> |                      | CREATED / REVISED BY: <b>SS06</b>           | CHECKED BY: <b>SS06</b> |
|                                   |                      | APPROVED BY: <b>ISHWARG</b>                 |                         |



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

|              |                   |              |                    |              |                    |              |                   |
|--------------|-------------------|--------------|--------------------|--------------|--------------------|--------------|-------------------|
| Assy. Proc:  | RIGHT ANGLE       | Assy. Proc:  | TOP ENTRY          | Assy. Proc:  | RIGHT ANGLE        | Assy. Proc:  | BOTTOM ENTRY      |
| Housing No:  | 41815-N-DN        | Housing No:  | 41815-N-DN         | Housing No:  | 41815-N-AN         | Housing No:  | 41815-N-DN        |
| Options      | WITHOUT RAMP      | Options      | WITHOUT RAMP       | Options      | WITH RAMP          | Options      | WITHOUT RAMP      |
| Terminal No: | 2144-BA-A1AA-197B | Terminal No: | 2144-AA-A1AA-P909B | Terminal No: | 2144-BA-A1AA-197B  | Terminal No: | 6298-197          |
| Term Matl:   | PHOS BRONZE       | Term Matl:   | BRASS              | Term Matl:   | PHOS BRONZE        | Term Matl:   | PHOS BRONZE       |
| Plating:     | 197 – TIN         | Plating:     | P909 – TIN         | Plating:     | 197 TIN            | Plating:     | 197 – TIN         |
| Dim C:       | (3.68) / .145     | Dim C:       | (3.05) / .120      | Dim C:       | (3.68) / .145      | Dim C:       | (4.06) / .160     |
| Voids:       | NONE              | Voids:       | NONE               | Voids:       | TERMINAL VOID 2, 4 | Voids:       | NONE              |
| Hooks Cut:   | NO                | Hooks Cut:   | YES                | Hooks Cut:   | NO                 | Hooks Cut:   | YES               |
| Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY  | Packaging:   | PK-41815-001 TRAY  | Packaging:   | PK-41815-001 TRAY |

| Ckts | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number |
|------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| 2    | 41815-0630  | A-41815-0630    |             |                 |             |                 | 41815-0672  | A-41815-0672    |
| 3    | 41815-0631  | A-41815-0631    |             |                 |             |                 |             |                 |
| 4    | 41815-0632  | A-41815-0632    | 41815-0646  | A-41815-0646    |             |                 | 41815-0674  | A-41815-0674    |
| 5    | 41815-0633  | A-41815-0633    |             |                 | 41815-0661  | A-41815-0661    |             |                 |
| 6    | 41815-0634  | A-41815-0634    |             |                 |             |                 |             |                 |
| 7    | 41815-0635  | A-41815-0635    |             |                 |             |                 |             |                 |
| 8    | 41815-0636  | A-41815-0636    |             |                 |             |                 |             |                 |
| 9    | 41815-0637  | A-41815-0637    |             |                 |             |                 |             |                 |
| 10   | 41815-0638  | A-41815-0638    |             |                 |             |                 |             |                 |
| 11   | 41815-0639  | A-41815-0639    |             |                 |             |                 |             |                 |
| 12   | 41815-0640  | A-41815-0640    |             |                 |             |                 |             |                 |
| 13   | 41815-0641  | A-41815-0641    |             |                 |             |                 |             |                 |
| 14   | 41815-0642  | A-41815-0642    |             |                 |             |                 |             |                 |
| 15   | 41815-0643  | A-41815-0643    |             |                 |             |                 |             |                 |

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



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

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

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

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

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

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

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

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