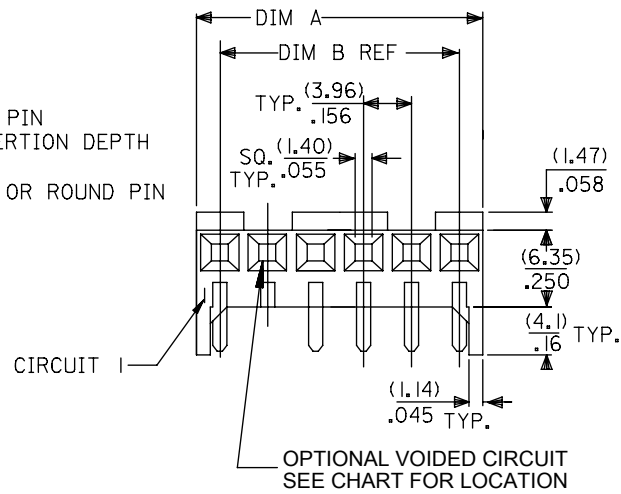
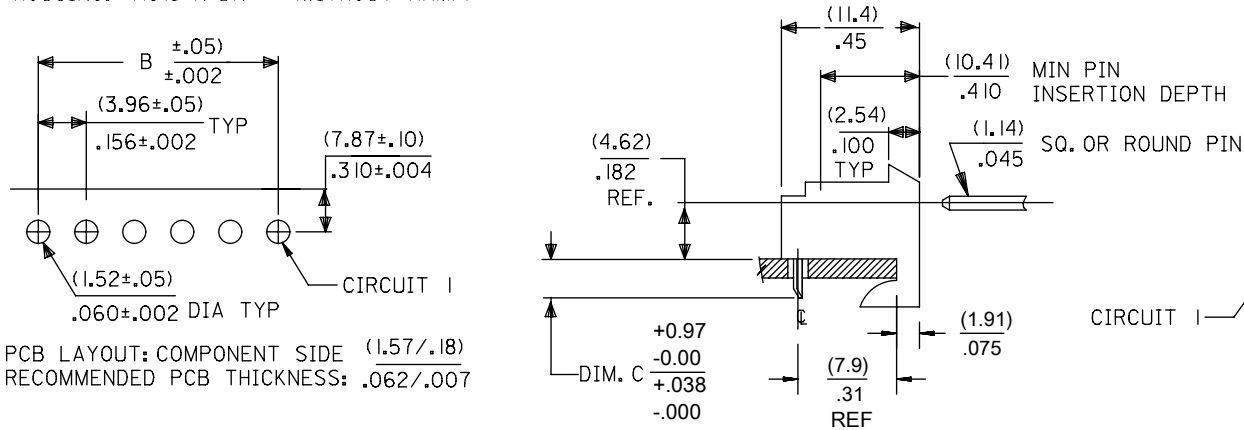


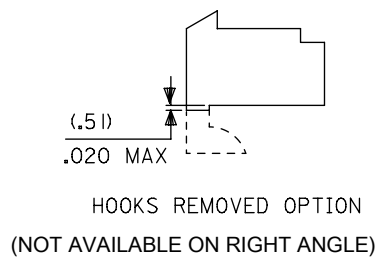
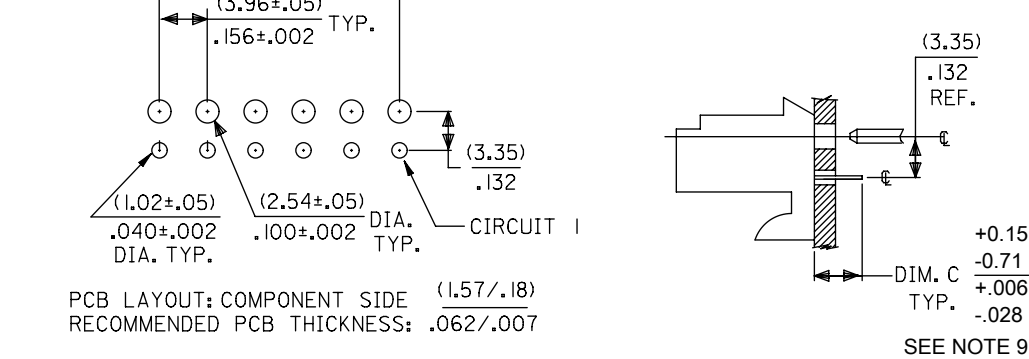
## RIGHT ANGLE

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



BOTTOM ENTRY

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

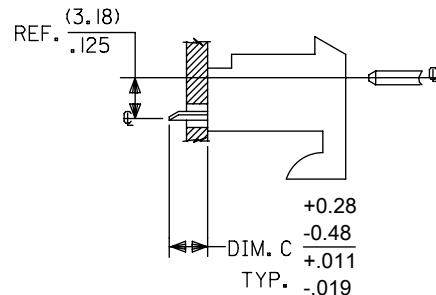
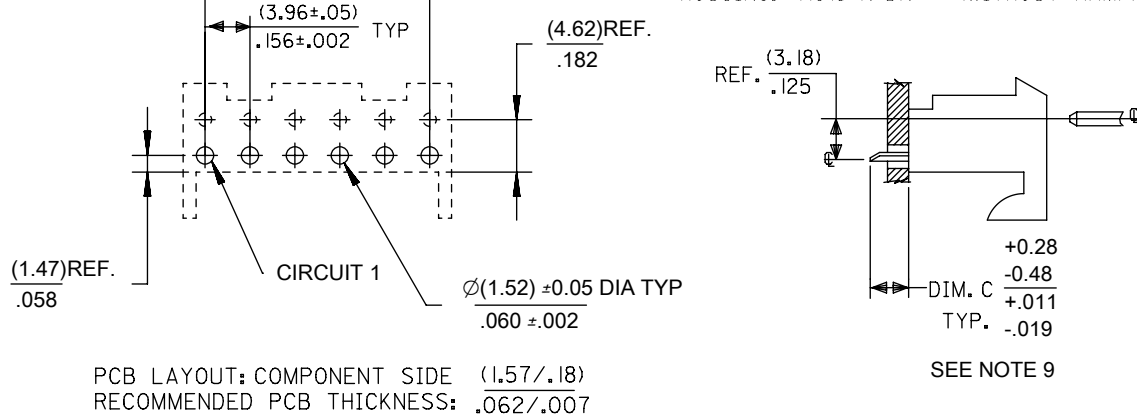


NOTES:

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

## TOP ENTRY

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

**molex®**

KK 156 HOUSING PCB  
41815 SERIES

## PRODUCT CUSTOMER DRAWING

|                 |                 |                |          |              |
|-----------------|-----------------|----------------|----------|--------------|
| SERIES          | MATERIAL NUMBER | CUSTOMER       |          |              |
| 41815           | SEE CHART       | GENERAL MARKET |          |              |
| DOCUMENT NUMBER |                 | DOC TYPE       | DOC PART | SHEET NUMBER |
| SDA-41815       |                 | PSD            | 000      | 1 OF *       |

| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                 |                                        |                                        |                                                            |        |      |                 |              |                 |                        |          |                                    |          |                 |              |                |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------|----------------------------------------|------------------------------------------------------------|--------|------|-----------------|--------------|-----------------|------------------------|----------|------------------------------------|----------|-----------------|--------------|----------------|--|
| QUALITY SYMBOLS                                                                                                                               |                 |                                        |                                        |                                                            |        |      |                 |              |                 |                        |          |                                    |          |                 |              |                |  |
| = 0                                                                                                                                           | DIM C TOLERANCE | 2016/08/22<br>2016/08/24<br>2016/08/26 | 2016/08/22<br>2016/08/24<br>2016/08/26 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        |      | DIMENSION UNITS |              | SCALE           |                        |          |                                    |          |                 |              |                |  |
| = 0                                                                                                                                           |                 |                                        |                                        |                                                            | MM     | INCH | MM/IN           |              | NTS             |                        |          |                                    |          |                 |              |                |  |
| = 0                                                                                                                                           |                 |                                        |                                        | 4 PLACES                                                   | ±      |      | ±               | DRWN BY      |                 | DATE                   |          | KK 156 HOUSING PCB<br>41815 SERIES |          |                 |              |                |  |
| = 0                                                                                                                                           |                 |                                        |                                        | 3 PLACES                                                   | ±      |      | ± 0.01          | SAMIEC       |                 | 1987/01/28             |          |                                    |          |                 |              |                |  |
| = 0                                                                                                                                           |                 |                                        |                                        | 2 PLACES                                                   | ± 0.25 |      | ± 0.015         | CHK'D BY     |                 | DATE                   |          |                                    |          |                 |              |                |  |
| = 0                                                                                                                                           |                 |                                        |                                        | 1 PLACES                                                   | ± 0.38 |      | ±               | SAMIEC       |                 | 1987/01/28             |          |                                    |          |                 |              |                |  |
| = 0                                                                                                                                           |                 |                                        |                                        | 0 PLACES                                                   | ±      |      | ±               | APPR BY      |                 | DATE                   |          | PRODUCT CUSTOMER DRAWING           |          |                 |              |                |  |
| = 0                                                                                                                                           |                 |                                        |                                        | ANGULAR TOL ± 0.5                                          |        |      |                 | SAMIEC       |                 | 1987/01/28             |          |                                    |          |                 |              |                |  |
|                                                                                                                                               |                 |                                        |                                        | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |      |                 | DRAWING SIZE |                 | THIRD ANGLE PROJECTION |          | SERIES                             |          | MATERIAL NUMBER |              | CUSTOMER       |  |
|                                                                                                                                               |                 |                                        |                                        | AP                                                         |        |      |                 | B            |                 |                        |          | 41815                              |          | SEE CHART       |              | GENERAL MARKET |  |
|                                                                                                                                               | REV             |                                        |                                        |                                                            |        |      |                 |              | DOCUMENT NUMBER |                        | DOC TYPE |                                    | DOC PART |                 | SHEET NUMBER |                |  |
|                                                                                                                                               |                 |                                        |                                        |                                                            |        |      |                 |              | SDA-41815       |                        | PSD      |                                    | 000      |                 | 1 OF *       |                |  |

FORMAT: Eng-lega-master-tb-prod-B  
REVISION: C  
DATE: 2018/04/04



# KK 156 PCB ASSY 2-15 CKT

## 41815 SERIES

|      |              |                   |              |                   |              |                   |              |                   |
|------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|
|      | Assy. Proc:  | RIGHT ANGLE       | Assy. Proc:  | RIGHT ANGLE       | Assy. Proc:  | BOTTOM ENTRY      | Assy. Proc:  | BOTTOM ENTRY      |
|      | Housing No:  | 41815-N-AN        | Housing No:  | 41815-N-AN        | Housing No:  | 41815-N-AN        | Housing No:  | 41815-N-AN        |
|      | Options      | WITH RAMP         | Options      | WITH RAMP         | Options      | WITH RAMP         | Options      | WITH RAMP         |
|      | Terminal No: | 2144-BA-A1AA-197B | Terminal No: | 2144-BA-A1AA-208B | Terminal No: | 6298-1-197        | Terminal No: | 6298-1-208        |
|      | Term Matl:   | PHOS BRONZE       | Term Matl:   | PHOS BRONZE       | Term Matl:   | PHOS BRONZE       | Term Matl:   | PHOS BRONZE       |
|      | Plating:     | 197 TIN           | Plating:     | 208 – 15 GOLD     | Plating:     | 197 – TIN         | Plating:     | 208 – 15 GOLD     |
|      | Dim C:       | (3.68) / .145     | Dim C:       | (3.68) / .145     | Dim C:       | (3.18)/. 125      | Dim C:       | (3.18)/. 125      |
|      | Voids:       | NONE              | Voids:       | NONE              | Voids:       | NONE              | Voids:       | NONE              |
|      | Hooks Cut:   | NO                | Hooks Cut:   | NO                | Hooks Cut:   | NO                | Hooks Cut:   | NO                |
|      | Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY |
| Ckts | Material No  | Engineer Number   | Material No  | Engineer Number   | Material No  | Engineer Number   | Material No  | Engineer Number   |
| 2    | 09-48-1024   | A-41815-0002      | 09-48-5024   | A-41815-0016      | 09-48-4029   | A-41815-0030      | 09-48-5026   | A-41815-0044      |
| 3    | 09-48-1034   | A-41815-0003      | 09-48-5034   | A-41815-0017      | 09-48-4039   | A-41815-0031      | 09-48-5036   | A-41815-0045      |
| 4    | 09-48-1044   | A-41815-0004      | 09-48-5044   | A-41815-0018      | 09-48-4049   | A-41815-0032      | 09-48-5046   | A-41815-0046      |
| 5    | 09-48-1054   | A-41815-0005      | 09-48-5054   | A-41815-0019      | 09-48-4059   | A-41815-0033      | 09-48-5056   | A-41815-0047      |
| 6    | 09-48-1064   | A-41815-0006      | 09-48-5064   | A-41815-0020      | 09-48-4069   | A-41815-0034      | 09-48-5066   | A-41815-0048      |
| 7    | 09-48-1074   | A-41815-0007      | 09-48-5074   | A-41815-0021      | 09-48-4079   | A-41815-0035      | 09-48-5076   | A-41815-0049      |
| 8    | 09-48-1084   | A-41815-0008      | 09-48-5084   | A-41815-0022      | 09-48-4089   | A-41815-0036      | 09-48-5086   | A-41815-0050      |
| 9    | 09-48-1094   | A-41815-0009      | 09-48-5094   | A-41815-0023      | 09-48-4099   | A-41815-0037      | 09-48-5096   | A-41815-0051      |
| 10   | 09-48-1104   | A-41815-0010      | 09-48-5104   | A-41815-0024      | 09-48-4109   | A-41815-0038      | 09-48-5106   | A-41815-0052      |
| 11   | 09-48-1114   | A-41815-0011      | 09-48-5114   | A-41815-0025      | 09-48-4119   | A-41815-0039      | 09-48-5116   | A-41815-0053      |
| 12   | 09-48-1124   | A-41815-0012      | 09-48-5124   | A-41815-0026      | 09-48-4129   | A-41815-0040      | 09-48-5126   | A-41815-0054      |
| 13   | 09-48-1134   | A-41815-0013      | 09-48-5134   | A-41815-0027      | 09-48-4139   | A-41815-0041      | 09-48-5136   | A-41815-0055      |
| 14   | 09-48-1144   | A-41815-0014      | 09-48-5144   | A-41815-0028      | 09-48-4149   | A-41815-0042      | 09-48-5146   | A-41815-0056      |
| 15   | 09-48-1154   | A-41815-0015      | 09-48-5154   | A-41815-0029      | 09-48-4159   | A-41815-0043      | 09-48-5156   | A-41815-0057      |

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



# KK 156 PCB ASSY 2-15 CKT

## 41815 SERIES

|              |                   |
|--------------|-------------------|
| Assy. Proc:  | TOP ENTRY         |
| Housing No:  | 41815-N-AN        |
| Options      | WITH RAMP         |
| Terminal No: | 2144-BA-A1AA-197B |
| Term Matl:   | PHOS BRONZE       |
| Plating:     | 197 – TIN         |
| Dim C:       | (3.05) / .120     |
| Voids:       | NONE              |
| Hooks Cut:   | NO                |
| Packaging:   | PK-41815-001 TRAY |

|              |                   |
|--------------|-------------------|
| Assy. Proc:  | TOP ENTRY         |
| Housing No:  | 41815-N-AN        |
| Options      | WITH RAMP         |
| Terminal No: | 2144-BA-A1AA-208B |
| Term Matl:   | PHOS BRONZE       |
| Plating:     | 208 – 15 GOLD     |
| Dim C:       | (3.05) / .120     |
| Voids:       | NONE              |
| Hooks Cut:   | NO                |
| Packaging:   | PK-41815-001 TRAY |

|              |                   |
|--------------|-------------------|
| Assy. Proc:  | BOTTOM ENTRY      |
| Housing No:  | 41815-N-AN        |
| Options      | WITH RAMP         |
| Terminal No: | 2188-1-P909       |
| Term Matl:   | BRASS             |
| Plating:     | P909 – TIN        |
| Dim C:       | (3.18) / .125     |
| Voids:       | NONE              |
| Hooks Cut:   | NO                |
| Packaging:   | PK-41815-001 TRAY |

|              |                    |
|--------------|--------------------|
| Assy. Proc:  | TOP ENTRY          |
| Housing No:  | 41815-N-AN         |
| Options      | WITH RAMP          |
| Terminal No: | 2144-AA-A1AA-P909B |
| Term Matl:   | BRASS              |
| Plating:     | P909 – TIN         |
| Dim C:       | (3.05) / .120      |
| Voids:       | NONE               |
| Hooks Cut:   | YES                |
| 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:<br><br><b>AN4</b>               | ECR/ECN INFORMATION: |                  | TITLE:<br><br><b>KK 156 HOUSING ASSY PCB<br/>41815 SERIES DWG</b> | SHEET No.<br><br><b>- 3 -</b>  |                                    |
|                                      | EC NO.               | <b>121254</b>    |                                                                   |                                |                                    |
|                                      | DATE:                | <b>8/30/2017</b> |                                                                   |                                |                                    |
| DOCUMENT NUMBER:<br><b>SDA-41815</b> |                      |                  | CREATED / REVISED BY:<br><br><b>SS06</b>                          | CHECKED BY:<br><br><b>SS06</b> | APPROVED BY:<br><br><b>ISHWARG</b> |



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



# KK 156 PCB ASSY 2-15 CKT

## 41815 SERIES

|      |              |                         |              |                   |              |                 |              |                    |
|------|--------------|-------------------------|--------------|-------------------|--------------|-----------------|--------------|--------------------|
|      | Assy. Proc:  | RIGHT ANGLE             | Assy. Proc:  | BOTTOM ENTRY      | Assy. Proc:  |                 | Assy. Proc:  | TOP ENTRY          |
|      | Housing No:  | 41815-N-AN              | Housing No:  | 41815-N-DN        | Housing No:  |                 | Housing No:  | 41815-N-DN         |
|      | Options      | WITH RAMP               | Options      | NO RAMPS          | Options      |                 | Options      | NO RAMPS           |
|      | Terminal No: | 2144-AA-A1AA-228B       | Terminal No: | 2188-P909         | Terminal No: |                 | Terminal No: | 2144-AA-A1AA-P909B |
|      | Term Matl:   | BRASS                   | Term Matl:   | BRASS             | Term Matl:   |                 | Term Matl:   | BRASS              |
|      | Plating:     | 228 – GOLD              | Plating:     | P909 – TIN        | Plating:     |                 | Plating:     | P909 – TIN         |
|      | Dim C:       | (3.68) / .145           | Dim C:       | (4.06) / .160     | Dim C:       |                 | Dim C:       | (3.05) / .120      |
|      | Voids:       | NONE                    | Voids:       | NONE              | Voids:       |                 | Voids:       | NONE               |
|      | Hooks Cut:   | NO                      | Hooks Cut:   | YES               | Hooks Cut:   |                 | Hooks Cut:   | NO                 |
|      | Packaging:   | PK-41815-001 TRAY       | Packaging:   | PK-41815-001 TRAY | Packaging:   |                 | Packaging:   | PK-41815-001 TRAY  |
| Ckts | Material No  | Engineer Number         | Material No  | Engineer Number   | Material No  | Engineer Number | Material No  | Engineer Number    |
|      | 2            | 09-48-5023 A-41815-0313 | 41815-0327   | A-41815-0327      |              |                 | 41815-0355   | A-41815-0355       |
|      | 3            | 09-48-5033 A-41815-0314 | 41815-0328   | A-41815-0328      |              |                 | 41815-0356   | A-41815-0356       |
|      | 4            | 09-48-5043 A-41815-0315 | 41815-0329   | A-41815-0329      |              |                 | 09-48-2047   | A-41815-0357       |
|      | 5            | 09-48-5053 A-41815-0316 | 09-48-2056   | A-41815-0330      |              |                 | 41815-0358   | A-41815-0358       |
|      | 6            | 09-48-5063 A-41815-0317 | 41815-0331   | A-41815-0331      |              |                 | 41815-0359   | A-41815-0359       |
|      | 7            | 09-48-5073 A-41815-0318 | 41815-0332   | A-41815-0332      |              |                 | 41815-0360   | A-41815-0360       |
|      | 8            | 09-48-5083 A-41815-0319 | 09-48-2086   | A-41815-0333      |              |                 | 41815-0361   | A-41815-0361       |
|      | 9            | 09-48-5093 A-41815-0320 | 41815-0334   | A-41815-0334      |              |                 | 41815-0362   | A-41815-0362       |
|      | 10           | 09-48-5103 A-41815-0321 | 09-48-2106   | A-41815-0335      |              |                 | 09-48-2107   | A-41815-0363       |
|      | 11           | 09-48-5113 A-41815-0322 | 41815-0336   | A-41815-0336      |              |                 | 41815-0364   | A-41815-0364       |
|      | 12           | 09-48-5123 A-41815-0323 | 41815-0337   | A-41815-0337      |              |                 | 41815-0365   | A-41815-0365       |
|      | 13           | 09-48-5133 A-41815-0324 | 41815-0338   | A-41815-0338      |              |                 | 41815-0366   | A-41815-0366       |
|      | 14           | 09-48-5143 A-41815-0325 | 41815-0339   | A-41815-0339      |              |                 | 41815-0367   | A-41815-0367       |
|      | 15           | 09-48-5153 A-41815-0326 | 41815-0340   | A-41815-0340      |              |                 | 41815-0368   | A-41815-0368       |

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



# 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:<br><br><b>AN4</b>               | ECR/ECN INFORMATION: |                  | TITLE:<br><br><b>KK 156 HOUSING ASSY PCB<br/>41815 SERIES DWG</b> | SHEET No.<br><br><b>- 6 -</b>  |                                    |
|                                      | EC NO.               | <b>121254</b>    |                                                                   |                                |                                    |
|                                      | DATE:                | <b>8/30/2017</b> |                                                                   |                                |                                    |
| DOCUMENT NUMBER:<br><b>SDA-41815</b> |                      |                  | CREATED / REVISED BY:<br><br><b>SS06</b>                          | CHECKED BY:<br><br><b>SS06</b> | APPROVED BY:<br><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:<br><br><b>AN4</b>               | ECR/ECN INFORMATION: |                  | TITLE:<br><br><b>KK 156 HOUSING ASSY PCB<br/>41815 SERIES DWG</b> | SHEET No.<br><br><b>- 7 -</b>  |                                    |
|                                      | EC NO.               | <b>121254</b>    |                                                                   |                                |                                    |
|                                      | DATE:                | <b>8/30/2017</b> |                                                                   |                                |                                    |
| DOCUMENT NUMBER:<br><b>SDA-41815</b> |                      |                  | CREATED / REVISED BY:<br><br><b>SS06</b>                          | CHECKED BY:<br><br><b>SS06</b> | APPROVED BY:<br><br><b>ISHWARG</b> |



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



# KK 156 PCB ASSY 2-15 CKT

## 41815 SERIES

|      |              |                   |              |                   |              |                   |              |                   |
|------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|
|      | Assy. Proc:  | BOTTOM ENTRY      | Assy. Proc:  | BOTTOM ENTRY      | Assy. Proc:  | RIGHT ANGLE       | Assy. Proc:  | TOP ENTRY         |
|      | Housing No:  | 41815-N-DN        | Housing No:  | 41815-N-DN        | Housing No:  | 41815-N-A15-7     | Housing No:  | 41815-N-DN        |
|      | Options      | WITHOUT RAMPS     | Options      | WITHOUT RAMPS     | Options      | WITH RAMP         | Options      | WITHOUT RAMP      |
|      | Terminal No: | 6298-1-197        | Terminal No: | 6298-1-197        | Terminal No: | 2144-BA-A1AA-197B | Terminal No: | 2144-BA-A1AA-197B |
|      | Term Matl:   | PHOS BRONZE       | Term Matl:   | PHOS BRONZE       | Term Matl:   | PHOS BRONZE       | Term Matl:   | PHOS BRONZE       |
|      | Plating:     | 197 – TIN         | Plating:     | 197 – TIN         | Plating:     | 197 – TIN         | Plating:     | 197 – TIN         |
|      | Dim C:       | 3.18 / .125       | Dim C:       | 3.18 / .125       | Dim C:       | (3.68) / .145     | Dim C:       | (3.05)/.120       |
|      | Voids:       | NONE              | Voids:       | TERMINAL VOID 2   | Voids:       | TERMINAL VOID 7   | Voids:       | NONE              |
|      | Hooks Cut:   | NO                | Hooks Cut:   | NO                | Hooks Cut:   | NO                | Hooks Cut:   | YES               |
|      | Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY | Packaging:   | PK-41815-001 TRAY |
| Ckts | Material No  | Engineer Number   | Material No  | Engineer Number   | Material No  | Engineer Number   | Material No  | Engineer Number   |
| 2    | 41815-0564   | A-41815-0564      |              |                   |              |                   | 41815-0601   | A-41815-0601      |
| 3    | 41815-0565   | A-41815-0565      | 41815-0579   | A-41815-0579      |              |                   | 41815-0602   | A-41815-0602      |
| 4    | 41815-0566   | A-41815-0566      | 41815-0580   | A-41815-0580      |              |                   |              |                   |
| 5    | 41815-0567   | A-41815-0567      | 41815-0581   | A-41815-0581      |              |                   |              |                   |
| 6    | 41815-0568   | A-41815-0568      | 41815-0582   | A-41815-0582      |              |                   | 41815-0605   | A-41815-0605      |
| 7    | 41815-0569   | A-41815-0569      | 41815-0583   | A-41815-0583      |              |                   |              |                   |
| 8    | 41815-0570   | A-41815-0570      | 41815-0584   | A-41815-0584      |              |                   |              |                   |
| 9    | 41815-0571   | A-41815-0571      | 41815-0585   | A-41815-0585      |              |                   |              |                   |
| 10   | 41815-0572   | A-41815-0572      | 41815-0586   | A-41815-0586      |              |                   |              |                   |
| 11   | 41815-0573   | A-41815-0573      | 41815-0587   | A-41815-0587      |              |                   |              |                   |
| 12   | 41815-0574   | A-41815-0574      | 41815-0588   | A-41815-0588      |              |                   |              |                   |
| 13   | 41815-0575   | A-41815-0575      | 41815-0589   | A-41815-0589      |              |                   |              |                   |
| 14   | 41815-0576   | A-41815-0576      | 41815-0590   | A-41815-0590      |              |                   |              |                   |
| 15   | 41815-0577   | A-41815-0577      | 41815-0591   | A-41815-0591      | 41815-0600   | A-41815-0600      |              |                   |

|                                          |                      |           |                                                           |                                |                                    |
|------------------------------------------|----------------------|-----------|-----------------------------------------------------------|--------------------------------|------------------------------------|
| REV:<br><br><b>AN4</b>                   | ECR/ECN INFORMATION: |           | TITLE:<br><br>KK 156 HOUSING ASSY PCB<br>41815 SERIES DWG | SHEET No.<br><br><b>- 9 -</b>  |                                    |
|                                          | EC NO.               | 121254    |                                                           |                                |                                    |
|                                          | DATE:                | 8/30/2017 |                                                           |                                |                                    |
| DOCUMENT NUMBER:<br><br><b>SDA-41815</b> |                      |           | CREATED / REVISED BY:<br><br><b>SS06</b>                  | CHECKED BY:<br><br><b>SS06</b> | APPROVED BY:<br><br><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:<br><br><b>AN4</b>               | ECR/ECN INFORMATION: |                  | TITLE:<br><br><b>KK 156 HOUSING ASSY PCB<br/>41815 SERIES DWG</b> | SHEET No.<br><br><b>- 10 -</b> |                                    |
|                                      | EC NO.               | <b>121254</b>    |                                                                   |                                |                                    |
|                                      | DATE:                | <b>8/30/2017</b> |                                                                   |                                |                                    |
| DOCUMENT NUMBER:<br><b>SDA-41815</b> |                      |                  | CREATED / REVISED BY:<br><br><b>SS06</b>                          | CHECKED BY:<br><br><b>SS06</b> | APPROVED BY:<br><br><b>ISHWARG</b> |



# KK 156 PCB ASSY 2-15 CKT

## 41815 SERIES

|      |              |                   |              |                 |              |                 |              |                 |
|------|--------------|-------------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
|      | Assy. Proc:  | RIGHT ANGLE       | Assy. Proc:  |                 | Assy. Proc:  |                 | Assy. Proc:  |                 |
|      | Housing No:  | 41815-N-AN        | Housing No:  |                 | Housing No:  |                 | Housing No:  |                 |
|      | Options      | WITH RAMP         | Options      |                 | Options      |                 | Options      |                 |
|      | Terminal No: | 2144-BA-A1AA-197B | Terminal No: |                 | Terminal No: |                 | Terminal No: |                 |
|      | Term Matl:   | PHOS BRONZE       | Term Matl:   |                 | Term Matl:   |                 | Term Matl:   |                 |
|      | Plating:     | 197 TIN           | Plating:     |                 | Plating:     |                 | Plating:     |                 |
|      | Dim C:       | (3.68) / .145     | Dim C:       |                 | Dim C:       |                 | Dim C:       |                 |
|      | Voids:       | TERMINAL VOID 2   | Voids:       |                 | Voids:       |                 | Voids:       |                 |
|      | Hooks Cut:   | NO                | Hooks Cut:   |                 | Hooks Cut:   |                 | Hooks Cut:   |                 |
|      | Packaging:   | PK-41815-001 TRAY | Packaging:   |                 | Packaging:   |                 | Packaging:   |                 |
| Ckts | Material No  | Engineer Number   | Material No  | Engineer Number | Material No  | Engineer Number | Material No  | Engineer Number |
| 2    |              |                   |              |                 |              |                 |              |                 |
| 3    | 41815-0687   | A-41815-0687      |              |                 |              |                 |              |                 |
| 4    |              |                   |              |                 |              |                 |              |                 |
| 5    |              |                   |              |                 |              |                 |              |                 |
| 6    |              |                   |              |                 |              |                 |              |                 |
| 7    |              |                   |              |                 |              |                 |              |                 |
| 8    |              |                   |              |                 |              |                 |              |                 |
| 9    |              |                   |              |                 |              |                 |              |                 |
| 10   |              |                   |              |                 |              |                 |              |                 |
| 11   |              |                   |              |                 |              |                 |              |                 |
| 12   |              |                   |              |                 |              |                 |              |                 |
| 13   |              |                   |              |                 |              |                 |              |                 |
| 14   |              |                   |              |                 |              |                 |              |                 |
| 15   |              |                   |              |                 |              |                 |              |                 |

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

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