

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0009484058](#)  
**Status:** **Active**  
**Description:** 3.96mm (.156") Pitch KK® PC Board Connector, Top Entry, Polyester Connector, 5.0µm (200µ") Tin (Sn), 5 Circuits

**Documents:**

[3D Model](#) [Product Specification PS-08-50 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
 UL E29179

**General**

Product Family PCB Receptacles  
 Series [41815](#)  
 Application Board-to-Board  
 Product Name KK®

**Physical**

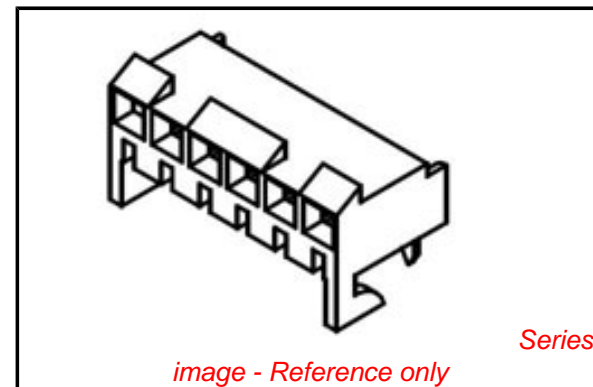
Circuits (Loaded) 5  
 Color - Resin Natural  
 Flammability 94V-0  
 Glow-Wire Compliant No  
 Lock to Mating Part Yes  
 Material - Metal Phosphor Bronze  
 Material - Plating Mating Tin  
 Material - Plating Termination Tin  
 Material - Resin Polyester  
 Number of Rows 1  
 Orientation Vertical  
 PC Tail Length (in) 0.120 In  
 PC Tail Length (mm) 3.05 mm  
 PCB Locator No  
 PCB Retention None  
 PCB Thickness Recommended (in) 0.062 In  
 PCB Thickness Recommended (mm) 1.60 mm  
 Packaging Type Bag  
 Pitch - Mating Interface (in) 0.156 In  
 Pitch - Mating Interface (mm) 3.96 mm  
 Plating min: Mating (µin) 200  
 Plating min: Mating (µm) 5.00  
 Plating min: Termination (µin) 200  
 Plating min: Termination (µm) 5.00  
 Polarized to PCB No  
 Temperature Range - Operating 0°C to +75°C  
 Termination Interface: Style Through Hole

**Electrical**

Current - Maximum per Contact 5A  
 Voltage - Maximum 250V

**Solder Process Data**

Duration at Max. Process Temperature (seconds) 5  
 Lead-free Process Capability Wave Capable (TH only)  
 Max. Cycles at Max. Process Temperature 1  
 Process Temperature max. C 235



**EU RoHS**

**ELV and RoHS  
 Compliant**  
**REACH SVHC  
 Contains SVHC: No**  
**Halogen-Free  
 Status  
 Not Reviewed**

**China RoHS**



**Need more information on product  
 environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
 For a multiple part number RoHS Certificate of  
 Compliance, [click here](#)

Please visit the [Contact Us](#) section for any  
 non-product compliance questions.

**Search Parts in this Series**  
[41815Series](#)

**Material Info**

Old Part Number

A-41815-0061

**Reference - Drawing Numbers**

Product Specification

PS-08-50

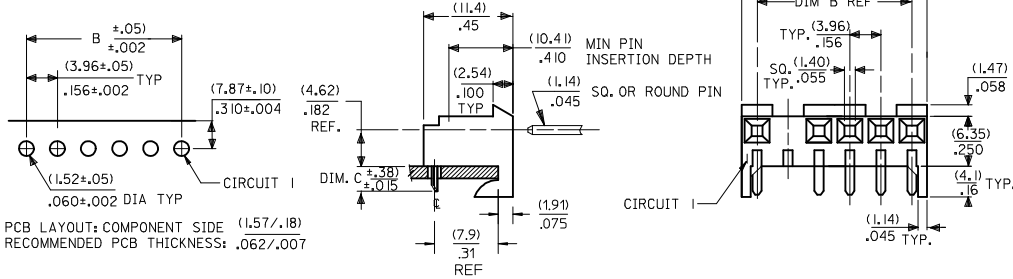
Sales Drawing

SDA-41815

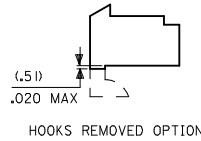
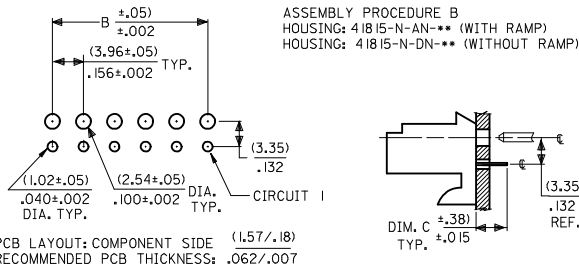
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ASSEMBLY PROCEDURE A  
HOUSING: 41815-N-AN-\*\* (WITH RAMP)  
HOUSING: 41815-N-DN-\*\* (WITHOUT RAMP)



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



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

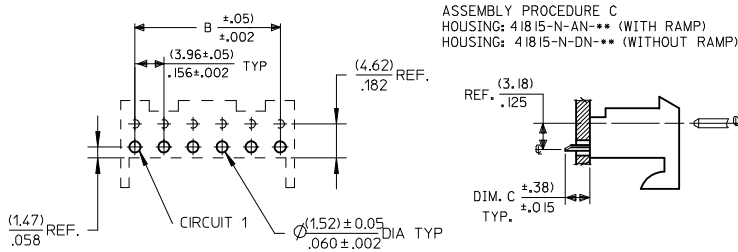
NOTES:

- MATERIAL: HOUSING: POLYESTER, 94V-0 COLOR: NATURAL (WHITE)
- FINISH:
  - (102) OVERALL TIN: 0.00508/.000200 MIN OVER 0.00254/.000100 MIN COPPER.
  - (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.
  - (505) OVERALL GOLD: 0.00127/.000050 MIN OVER 0.00127/.000050 MIN NICKEL.
  - (909) OVERALL TIN: 0.00254/.000100 MIN.

\*THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO ROHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2002/53/EC". CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD PLATING.

- 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 OR 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 ES-152.
- PARTS ARE STACKABLE END TO END ON (3.96)/.156 €
- THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPEC PS-45499-002.

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



|   |                               |                                       |                       |   |                  |                                    |                      |                           |                      |  |  |
|---|-------------------------------|---------------------------------------|-----------------------|---|------------------|------------------------------------|----------------------|---------------------------|----------------------|--|--|
| ADD .31 REF<br>EC NO: WJEP2009-9850850<br>DRW/KS/SAM/EC 2009/01/27<br>CHKD: 2009/01/27<br>APPR: JCOMERCI 2009/01/27<br>AM | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |                       | DIMENSION STYLE<br>MM/IN  |                  | SCALE<br>INCH                      | DESIGN UNITS<br>INCH | THIRD ANGLE PROJECTION    |                      |  |  |
|   |                               | 4 PLACES ± --- ± ---                  | 3 PLACES ± --- ± .010 | DRAWN BY<br>SAM/EC  | DATE<br>01/28/87 | KK 156 HOUSING PCB<br>41815 SERIES |                      |                           |                      |  |  |
|   |                               | 2 PLACES ± --- ± .015                 | 1 PLACE ± --- ± ---   | CHECKED BY<br>SAM/EC  | DATE<br>01/28/87 | MOLEX INCORPORATED                 |                      |                           |                      |  |  |
|   |                               | ANGULAR ±1/2°                         |                       | APPROVED BY<br>LENZ   | DATE<br>01/28/87 | MATERIAL NO.<br>SEE CHART          |                      | DOCUMENT NO.<br>SDA-41815 | SHEET NO.<br>1 OF 11 |  |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS  |                               | SIZE<br>B                             |                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                  |                                    |                      |                           |                      |  |  |



# 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-102B |
| Term Matl:   | PHOS BRONZE       |
| Plating:     | 102 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: | 6298-1-102        |
| Term Matl:   | PHOS BRONZE       |
| Plating:     | 102 – 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 |
|------|-------------|-----------------|
| 2    | 09-48-1024  | A-41815-0002    |
| 3    | 09-48-1034  | A-41815-0003    |
| 4    | 09-48-1044  | A-41815-0004    |
| 5    | 09-48-1054  | A-41815-0005    |
| 6    | 09-48-1064  | A-41815-0006    |
| 7    | 09-48-1074  | A-41815-0007    |
| 8    | 09-48-1084  | A-41815-0008    |
| 9    | 09-48-1094  | A-41815-0009    |
| 10   | 09-48-1104  | A-41815-0010    |
| 11   | 09-48-1114  | A-41815-0011    |
| 12   | 09-48-1124  | A-41815-0012    |
| 13   | 09-48-1134  | A-41815-0013    |
| 14   | 09-48-1144  | A-41815-0014    |
| 15   | 09-48-1154  | A-41815-0015    |

| Material No | Engineer Number |
|-------------|-----------------|
| 09-48-5024  | A-41815-0016    |
| 09-48-5034  | A-41815-0017    |
| 09-48-5044  | A-41815-0018    |
| 09-48-5054  | A-41815-0019    |
| 09-48-5064  | A-41815-0020    |
| 09-48-5074  | A-41815-0021    |
| 09-48-5084  | A-41815-0022    |
| 09-48-5094  | A-41815-0023    |
| 09-48-5104  | A-41815-0024    |
| 09-48-5114  | A-41815-0025    |
| 09-48-5124  | A-41815-0026    |
| 09-48-5134  | A-41815-0027    |
| 09-48-5144  | A-41815-0028    |
| 09-48-5154  | A-41815-0029    |

| Material No | Engineer Number |
|-------------|-----------------|
| 09-48-4029  | A-41815-0030    |
| 09-48-4039  | A-41815-0031    |
| 09-48-4049  | A-41815-0032    |
| 09-48-4059  | A-41815-0033    |
| 09-48-4069  | A-41815-0034    |
| 09-48-4079  | A-41815-0035    |
| 09-48-4089  | A-41815-0036    |
| 09-48-4099  | A-41815-0037    |
| 09-48-4109  | A-41815-0038    |
| 09-48-4119  | A-41815-0039    |
| 09-48-4129  | A-41815-0040    |
| 09-48-4139  | A-41815-0041    |
| 09-48-4149  | A-41815-0042    |
| 09-48-4159  | A-41815-0043    |

| Material No | Engineer Number |
|-------------|-----------------|
| 09-48-5026  | A-41815-0044    |
| 09-48-5036  | A-41815-0045    |
| 09-48-5046  | A-41815-0046    |
| 09-48-5056  | A-41815-0047    |
| 09-48-5066  | A-41815-0048    |
| 09-48-5076  | A-41815-0049    |
| 09-48-5086  | A-41815-0050    |
| 09-48-5096  | A-41815-0051    |
| 09-48-5106  | A-41815-0052    |
| 09-48-5116  | A-41815-0053    |
| 09-48-5126  | A-41815-0054    |
| 09-48-5136  | A-41815-0055    |
| 09-48-5146  | A-41815-0056    |
| 09-48-5156  | A-41815-0057    |

|   |                             |  |  |                                      |
|---|-----------------------------|--|--|--------------------------------------|
| <b>REV:</b><br><br><b>AL6</b>               | <b>ECR/ECN INFORMATION:</b> |  | <b>TITLE:</b><br><br><b>KK 156 HOUSING ASSY PCB<br/>41815 SERIES DWG</b> | <b>SHEET No.</b><br><br><b>- 2 -</b> |
|   | EC NO.                      | <b>UCP2009-0167</b>                            |  |                                      |
|   | DATE:                       | <b>10/30/2008</b>                              |  |                                      |
| <b>DOCUMENT NUMBER:</b><br><b>SDA-41815</b> |                             | <b>CREATED / REVISED BY:</b><br><b>MKIPPER</b> | <b>CHECKED BY:</b><br><b>JBELL</b>                                       | <b>APPROVED BY:</b><br><b>FSMITH</b> |



# KK 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-102B |
| Term Matl:   | PHOS BRONZE       |
| Plating:     | 102 – 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 |

| Ckts | Material No | Engineer Number |
|------|-------------|-----------------|
| 2    | 09-48-4028  | A-41815-0058    |
| 3    | 09-48-4038  | A-41815-0059    |
| 4    | 09-48-4048  | A-41815-0060    |
| 5    | 09-48-4058  | A-41815-0061    |
| 6    | 09-48-4068  | A-41815-0062    |
| 7    | 09-48-4078  | A-41815-0063    |
| 8    | 09-48-4088  | A-41815-0064    |
| 9    | 09-48-4098  | A-41815-0065    |
| 10   | 09-48-4108  | A-41815-0066    |
| 11   | 09-48-4118  | A-41815-0067    |
| 12   | 09-48-4128  | A-41815-0068    |
| 13   | 09-48-4138  | A-41815-0069    |
| 14   | 09-48-4148  | A-41815-0070    |
| 15   | 09-48-4158  | A-41815-0071    |

| Material No | Engineer Number |
|-------------|-----------------|
| 09-48-5025  | A-41815-0072    |
| 09-48-5035  | A-41815-0073    |
| 09-48-5045  | A-41815-0074    |
| 09-48-5055  | A-41815-0075    |
| 09-48-5065  | A-41815-0076    |
| 09-48-5075  | A-41815-0077    |
| 09-48-5085  | A-41815-0078    |
| 09-48-5095  | A-41815-0079    |
| 09-48-5105  | A-41815-0080    |
| 09-48-5115  | A-41815-0081    |
| 09-48-5125  | A-41815-0082    |
| 09-48-5135  | A-41815-0083    |
| 09-48-5145  | A-41815-0084    |
| 09-48-5155  | A-41815-0085    |

|   |                             |  |  |                                      |
|---|-----------------------------|--|--|--------------------------------------|
| <b>REV:</b><br><br><b>AL6</b>               | <b>ECR/ECN INFORMATION:</b> |  | <b>TITLE:</b><br><br><b>KK 156 HOUSING ASSY PCB<br/>41815 SERIES DWG</b> | <u>SHEET No.</u>                     |
|   | <b>EC NO.</b>               | <b>UCP2009-0167</b>                            |  | <b>- 3 -</b>                         |
|   | <b>DATE:</b>                | <b>10/30/2008</b>                              |  |                                      |
| <b>DOCUMENT NUMBER:</b><br><b>SDA-41815</b> |                             | <b>CREATED / REVISED BY:</b><br><b>MKIPPER</b> | <b>CHECKED BY:</b><br><b>JBELL</b>                                       | <b>APPROVED BY:</b><br><b>FSMITH</b> |



# KK 156 PCB ASSY 2-15 CKT

## 41815 SERIES

|              |                   |
|--------------|-------------------|
| 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  |

|              |                   |
|--------------|-------------------|
| Assy. Proc:  | RIGHT ANGLE       |
| Housing No:  | 41815-N-AN        |
| Options      | WITH RAMP         |
| Terminal No: | 2144-AA-A1AA-122B |
| Term Matl:   | BRASS             |
| Plating:     | 122 – TIN         |
| 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: | 2188-1-102        |
| Term Matl:   | BRASS             |
| Plating:     | 102 – TIN         |
| Dim C:       | (3.18) / .125     |
| Voids:       | NONE              |
| Hooks Cut:   | NO                |
| Packaging:   | PK-41815-001 TRAY |

| Ckts | Material No | Engineer Number |
|------|-------------|-----------------|
| 2    | 09-48-2022  | A-41815-0100    |
| 3    | 09-48-2032  | A-41815-0101    |
| 4    | 09-48-2042  | A-41815-0102    |
| 5    | 09-48-2052  | A-41815-0103    |
| 6    | 09-48-2062  | A-41815-0104    |
| 7    | 09-48-2072  | A-41815-0105    |
| 8    | 09-48-2082  | A-41815-0106    |
| 9    | 09-48-2092  | A-41815-0107    |
| 10   | 09-48-2102  | A-41815-0108    |
| 11   | 09-48-2112  | A-41815-0109    |
| 12   | 09-48-2122  | A-41815-0110    |
| 13   | 09-48-2132  | A-41815-0111    |
| 14   | 09-48-2142  | A-41815-0112    |
| 15   | 09-48-2152  | A-41815-0113    |

| Material No | Engineer Number |
|-------------|-----------------|
| 09-48-2025  | A-41815-0114    |
| 09-48-2035  | A-41815-0115    |
| 09-48-2045  | A-41815-0116    |
| 09-48-2055  | A-41815-0117    |
| 09-48-2065  | A-41815-0118    |
| 09-48-2075  | A-41815-0119    |
| 09-48-2085  | A-41815-0120    |
| 09-48-2095  | A-41815-0121    |
| 09-48-2105  | A-41815-0122    |
| 09-48-2115  | A-41815-0123    |
| 09-48-2125  | A-41815-0124    |
| 09-48-2135  | A-41815-0125    |
| 09-48-2145  | A-41815-0126    |
| 09-48-2155  | A-41815-0127    |

| Material No | Engineer Number |
|-------------|-----------------|
| 41815-0128  | A-41815-0128    |
| 41815-0129  | A-41815-0129    |
| 41815-0130  | A-41815-0130    |
| 41815-0131  | A-41815-0131    |
| 41815-0132  | A-41815-0132    |
| 41815-0133  | A-41815-0133    |
| 41815-0134  | A-41815-0134    |
| 41815-0135  | A-41815-0135    |
| 41815-0136  | A-41815-0136    |
| 41815-0137  | A-41815-0137    |
| 09-48-1122  | A-41815-0138    |
| 41815-0139  | A-41815-0139    |
| 41815-0140  | A-41815-0140    |
| 41815-0141  | A-41815-0141    |

| Material No | Engineer Number |
|-------------|-----------------|
| 09-48-4022  | A-41815-0142    |
| 09-48-4032  | A-41815-0143    |
| 09-48-4042  | A-41815-0144    |
| 09-48-4052  | A-41815-0145    |
| 09-48-4062  | A-41815-0146    |
| 09-48-4072  | A-41815-0147    |
| 09-48-4082  | A-41815-0148    |
| 09-48-4092  | A-41815-0149    |
| 09-48-4102  | A-41815-0150    |
| 09-48-4112  | A-41815-0151    |
| 09-48-4122  | A-41815-0152    |
| 09-48-4132  | A-41815-0153    |
| 09-48-4142  | A-41815-0154    |
| 09-48-4152  | A-41815-0155    |

|   |                             |  |  |                                      |
|---|-----------------------------|--|--|--------------------------------------|
| <b>REV:</b><br><br><b>AL6</b>               | <b>ECR/ECN INFORMATION:</b> |  | <b>TITLE:</b><br><br><b>KK 156 HOUSING ASSY PCB<br/>41815 SERIES DWG</b> | <b>SHEET No.</b><br><br><b>- 4 -</b> |
|   | EC NO.                      | <b>UCP2009-0167</b>                            |  |                                      |
|   | DATE:                       | <b>10/30/2008</b>                              |  |                                      |
| <b>DOCUMENT NUMBER:</b><br><b>SDA-41815</b> |                             | <b>CREATED / REVISED BY:</b><br><b>MKIPPER</b> | <b>CHECKED BY:</b><br><b>JBELL</b>                                       | <b>APPROVED BY:</b><br><b>FSMITH</b> |



# KK 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: | 6298-1-102        | 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:     | 102 – TIN         | Plating:     | 228 – GOLD        | Plating:     | P909 – TIN         |
| Dim C:       |  | Dim C:       | (4.60) / .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    | 09-48-5090  | 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    |

|                         |                             |              |                              |   |                     |
|-------------------------|-----------------------------|--------------|------------------------------|---|---------------------|
| <b>REV:</b>             | <b>ECR/ECN INFORMATION:</b> |              | <b>TITLE:</b>                | <b>KK 156 HOUSING ASSY PCB<br/>41815 SERIES DWG</b> | <b>SHEET No.</b>    |
| AL6                     | EC NO.                      | UCP2009-0167 |                              |   | - 5 -               |
|                         | DATE:                       | 10/30/2008   |                              |   |                     |
| <b>DOCUMENT NUMBER:</b> |                             |              | <b>CREATED / REVISED BY:</b> | <b>CHECKED BY:</b>                                  | <b>APPROVED BY:</b> |
| <b>SDA-41815</b>        |                             |              | <b>MKIPPER</b>               | <b>JBELL</b>  | <b>FSMITH</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-AA-A1AA-228B |
| Term Matl:   | BRASS             |
| Plating:     | 228 – GOLD        |
| Dim C:       | (3.68) / .145     |
| Voids:       | NONE              |
| Hooks Cut:   | NO                |
| Packaging:   | PK-41815-001 TRAY |

|              |                   |
|--------------|-------------------|
| Assy. Proc:  | BOTTOM ENTRY      |
| Housing No:  | 41815-N-DN        |
| Options      | NO RAMPS          |
| Terminal No: | 2188-P909         |
| Term Matl:   | BRASS             |
| Plating:     | P909 – TIN        |
| Dim C:       | (4.06) / .160     |
| Voids:       | NONE              |
| Hooks Cut:   | YES               |
| Packaging:   | PK-41815-001 TRAY |

|              |                   |
|--------------|-------------------|
| Assy. Proc:  | RIGHT ANGLE       |
| Housing No:  | 41815-N-AN        |
| Options      | WITH RAMP         |
| Terminal No: | 2144-AA-A1AA-505B |
| Term Matl:   | BRASS             |
| Plating:     | 505 – GOLD        |
| Dim C:       | (3.68) / .145     |
| Voids:       | NONE              |
| Hooks Cut:   | NO                |
| Packaging:   | PK-41815-001 TRAY |

|              |                    |
|--------------|--------------------|
| Assy. Proc:  | TOP ENTRY          |
| Housing No:  | 41815-N-DN         |
| Options      | NO RAMPS           |
| Terminal No: | 2144-AA-A1AA-P909B |
| Term Matl:   | BRASS              |
| Plating:     | P909 – TIN         |
| Dim C:       | (3.05) / .120      |
| 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    | 09-48-5023  | A-41815-0313    | 41815-0327  | A-41815-0327    | 41815-0341  | A-41815-0341    | 41815-0355  | A-41815-0355    |
| 3    | 09-48-5033  | A-41815-0314    | 41815-0328  | A-41815-0328    | 09-48-3037  | A-41815-0342    | 41815-0356  | A-41815-0356    |
| 4    | 09-48-5043  | A-41815-0315    | 41815-0329  | A-41815-0329    | 41815-0343  | A-41815-0343    | 09-48-2047  | A-41815-0357    |
| 5    | 09-48-5053  | A-41815-0316    | 09-48-2056  | A-41815-0330    | 41815-0344  | A-41815-0344    | 41815-0358  | A-41815-0358    |
| 6    | 09-48-5063  | A-41815-0317    | 41815-0331  | A-41815-0331    | 41815-0345  | A-41815-0345    | 41815-0359  | A-41815-0359    |
| 7    | 09-48-5073  | A-41815-0318    | 41815-0332  | A-41815-0332    | 41815-0346  | A-41815-0346    | 41815-0360  | A-41815-0360    |
| 8    | 09-48-5083  | A-41815-0319    | 09-48-2086  | A-41815-0333    | 41815-0347  | A-41815-0347    | 41815-0361  | A-41815-0361    |
| 9    | 09-48-5093  | A-41815-0320    | 41815-0334  | A-41815-0334    | 41815-0348  | A-41815-0348    | 41815-0362  | A-41815-0362    |
| 10   | 09-48-5103  | A-41815-0321    | 09-48-2106  | A-41815-0335    | 41815-0349  | A-41815-0349    | 09-48-2107  | A-41815-0363    |
| 11   | 09-48-5113  | A-41815-0322    | 41815-0336  | A-41815-0336    | 41815-0350  | A-41815-0350    | 41815-0364  | A-41815-0364    |
| 12   | 09-48-5123  | A-41815-0323    | 41815-0337  | A-41815-0337    | 41815-0351  | A-41815-0351    | 41815-0365  | A-41815-0365    |
| 13   | 09-48-5133  | A-41815-0324    | 41815-0338  | A-41815-0338    | 41815-0352  | A-41815-0352    | 41815-0366  | A-41815-0366    |
| 14   | 09-48-5143  | A-41815-0325    | 41815-0339  | A-41815-0339    | 41815-0353  | A-41815-0353    | 41815-0367  | A-41815-0367    |
| 15   | 09-48-5153  | A-41815-0326    | 41815-0340  | A-41815-0340    | 41815-0354  | A-41815-0354    | 41815-0368  | A-41815-0368    |

|   |                             |  |  |                                      |
|---|-----------------------------|--|--|--------------------------------------|
| <b>REV:</b><br><br><b>AL6</b>               | <b>ECR/ECN INFORMATION:</b> |  | <b>TITLE:</b><br><br><b>KK 156 HOUSING ASSY PCB<br/>41815 SERIES DWG</b> | <b>SHEET No.</b><br><br><b>- 6 -</b> |
|   | EC NO.                      | <b>UCP2009-0167</b>                            |  |                                      |
|   | DATE:                       | <b>10/30/2008</b>                              |  |                                      |
| <b>DOCUMENT NUMBER:</b><br><b>SDA-41815</b> |                             | <b>CREATED / REVISED BY:</b><br><b>MKIPPER</b> | <b>CHECKED BY:</b><br><b>JBELL</b>                                       | <b>APPROVED BY:</b><br><b>FSMITH</b> |





# KK 156 PCB ASSY 2-15 CKT

## 41815 SERIES

|              |                   |
|--------------|-------------------|
| Assy. Proc:  | RIGHT ANGLE       |
| Housing No:  | 41815-N-AN        |
| Options      | WITH RAMP         |
| Terminal No: | 4244-A-102A       |
| Term Matl:   | PHOS BRONZE       |
| Plating:     | 102 – TIN         |
| 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: | 2188-1-122        |
| Term Matl:   | BRASS             |
| Plating:     | TIN – 122         |
| Dim C:       | (3.18) / .125     |
| 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-AA-A1AA-208B |
| Term Matl:   | BRASS             |
| 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: | 2188-1-208        |
| Term Matl:   | BRASS             |
| 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    | 09-48-1023  | A-41815-0369    | 09-48-4025  | A-41815-0383    | 09-48-3025  | A-41815-0425    | 09-48-3024  | A-41815-0439    |
| 3    | 09-48-1033  | A-41815-0370    | 09-48-4035  | A-41815-0384    | 09-48-3035  | A-41815-0426    | 09-48-3034  | A-41815-0440    |
| 4    | 09-48-1043  | A-41815-0371    | 09-48-4045  | A-41815-0385    | 09-48-3045  | A-41815-0427    | 09-48-3044  | A-41815-0441    |
| 5    | 09-48-1053  | A-41815-0372    | 09-48-4055  | A-41815-0386    | 09-48-3055  | A-41815-0428    | 09-48-3054  | A-41815-0442    |
| 6    | 09-48-1063  | A-41815-0373    | 09-48-4065  | A-41815-0387    | 09-48-3065  | A-41815-0429    | 09-48-3064  | A-41815-0443    |
| 7    | 09-48-1073  | A-41815-0374    | 09-48-4075  | A-41815-0388    | 09-48-3075  | A-41815-0430    | 09-48-3074  | A-41815-0444    |
| 8    | 09-48-1083  | A-41815-0375    | 09-48-4085  | A-41815-0389    | 09-48-3085  | A-41815-0431    | 09-48-3084  | A-41815-0445    |
| 9    | 09-48-1093  | A-41815-0376    | 09-48-4095  | A-41815-0390    | 09-48-3095  | A-41815-0432    | 09-48-3094  | A-41815-0446    |
| 10   | 09-48-1103  | A-41815-0377    | 09-48-4105  | A-41815-0391    | 09-48-3105  | A-41815-0433    | 09-48-3104  | A-41815-0447    |
| 11   | 09-48-1113  | A-41815-0378    | 09-48-4115  | A-41815-0392    | 09-48-3115  | A-41815-0434    | 09-48-3114  | A-41815-0448    |
| 12   | 09-48-1123  | A-41815-0379    | 09-48-4125  | A-41815-0393    | 09-48-3125  | A-41815-0435    | 09-48-3124  | A-41815-0449    |
| 13   | 09-48-1133  | A-41815-0380    | 09-48-4135  | A-41815-0394    | 09-48-3135  | A-41815-0436    | 09-48-3134  | A-41815-0450    |
| 14   | 09-48-1143  | A-41815-0381    | 09-48-4145  | A-41815-0395    | 09-48-3145  | A-41815-0437    | 09-48-3144  | A-41815-0451    |
| 15   | 09-48-1153  | A-41815-0382    | 09-48-4155  | A-41815-0396    | 09-48-3155  | A-41815-0438    | 09-48-3154  | A-41815-0452    |

|   |                             |  |  |                                      |
|---|-----------------------------|--|--|--------------------------------------|
| <b>REV:</b><br><br><b>AL6</b>               | <b>ECR/ECN INFORMATION:</b> |  | <b>TITLE:</b><br><br><b>KK 156 HOUSING ASSY PCB<br/>41815 SERIES DWG</b> | <b>SHEET No.</b><br><br><b>- 7 -</b> |
|   | EC NO.                      | <b>UCP2009-0167</b>                            |  |                                      |
|   | DATE:                       | <b>10/30/2008</b>                              |  |                                      |
| <b>DOCUMENT NUMBER:</b><br><b>SDA-41815</b> |                             | <b>CREATED / REVISED BY:</b><br><b>MKIPPER</b> | <b>CHECKED BY:</b><br><b>JBELL</b>                                       | <b>APPROVED BY:</b><br><b>FSMITH</b> |



# KK 156 PCB ASSY 2-15 CKT

## 41815 SERIES

|              |                    |
|--------------|--------------------|
| 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:   | NO                 |
| Packaging:   | PK-41815-001 TRAY  |

|              |                   |
|--------------|-------------------|
| Assy. Proc:  | TOP ENTRY         |
| Housing No:  | 41815-N-AN        |
| Options      | WITH RAMP         |
| Terminal No: | 2144-AA-A1AA-208B |
| Term Matl:   | BRASS             |
| Plating:     | 208 – 15 GOLD     |
| Dim C:       | (3.05) / .120     |
| 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-P909B |
| Term Matl:   | PHOS BRONZE        |
| Plating:     | P909 – TIN         |
| 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-P909       |
| Term Matl:   | PHOS BRONZE       |
| Plating:     | P909 – TIN        |
| 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    | 09-48-2023  | 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    |

|   |                             |  |  |                                      |
|---|-----------------------------|--|--|--------------------------------------|
| <b>REV:</b><br><br><b>AL6</b>               | <b>ECR/ECN INFORMATION:</b> |  | <b>TITLE:</b><br><br><b>KK 156 HOUSING ASSY PCB<br/>41815 SERIES DWG</b> | <b>SHEET No.</b><br><br><b>- 8 -</b> |
|   | EC NO.                      | <b>UCP2009-0167</b>                            |  |                                      |
|   | DATE:                       | <b>10/30/2008</b>                              |  |                                      |
| <b>DOCUMENT NUMBER:</b><br><b>SDA-41815</b> |                             | <b>CREATED / REVISED BY:</b><br><b>MKIPPER</b> | <b>CHECKED BY:</b><br><b>JBELL</b>                                       | <b>APPROVED BY:</b><br><b>FSMITH</b> |



# KK 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-P909B |
| Term Matl:   | PHOS BRONZE        |
| Plating:     | P909 – 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-102B |
| Term Matl:   | PHOS BRONZE       |
| Plating:     | 102 – TIN         |
| Dim C:       | (3.05) / .120     |
| Voids:       | NONE              |
| Hooks Cut:   | YES               |
| 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:   | YES               |
| Packaging:   | PK-41815-001 TRAY |

|              |                   |
|--------------|-------------------|
| Assy. Proc:  | BOTTOM ENTRY      |
| Housing No:  | 41815-N-AN        |
| Options      | WITH RAMP         |
| Terminal No: | 2188-1-208        |
| Term Matl:   | BRASS             |
| Plating:     | 208 – 15 GOLD     |
| Dim C:       | (3.18) / .125     |
| Voids:       | TERMINAL VOID 2   |
| Hooks Cut:   | NO                |
| Packaging:   | PK-41815-001 TRAY |

| Ckts | Material No | Engineer Number |
|------|-------------|-----------------|
| 2    | 09-48-2028  | A-41815-0509    |
| 3    | 09-48-2038  | A-41815-0510    |
| 4    | 09-48-2048  | A-41815-0511    |
| 5    | 09-48-2058  | A-41815-0512    |
| 6    | 09-48-2068  | A-41815-0513    |
| 7    | 09-48-2078  | A-41815-0514    |
| 8    | 09-48-2088  | A-41815-0515    |
| 9    | 09-48-2098  | A-41815-0516    |
| 10   | 09-48-2108  | A-41815-0517    |
| 11   | 09-48-2118  | A-41815-0518    |
| 12   | 09-48-2128  | A-41815-0519    |
| 13   | 09-48-2138  | A-41815-0520    |
| 14   | 09-48-2148  | A-41815-0521    |
| 15   | 09-48-2158  | A-41815-0522    |

| Material No | Engineer Number |
|-------------|-----------------|
| 09-48-5028  | A-41815-0523    |
| 09-48-5038  | A-41815-0524    |
| 09-48-5048  | A-41815-0525    |
| 09-48-5058  | A-41815-0526    |
| 09-48-5068  | A-41815-0527    |
| 09-48-5078  | A-41815-0528    |
| 09-48-5088  | A-41815-0529    |
| 09-48-5098  | A-41815-0530    |
| 09-48-5108  | A-41815-0531    |
| 09-48-5118  | A-41815-0532    |
| 09-48-5128  | A-41815-0533    |
| 09-48-5138  | A-41815-0534    |
| 09-48-5148  | A-41815-0535    |
| 09-48-5158  | A-41815-0536    |

| Material No | Engineer Number |
|-------------|-----------------|
| 09-48-1025  | A-41815-0537    |
| 09-48-1035  | A-41815-0538    |
| 09-48-1045  | A-41815-0539    |
| 09-48-1055  | A-41815-0540    |
| 09-48-1065  | A-41815-0541    |
| 09-48-1075  | A-41815-0542    |
| 09-48-1085  | A-41815-0543    |
| 09-48-1095  | A-41815-0544    |
| 09-48-1105  | A-41815-0545    |
| 09-48-1115  | A-41815-0546    |
| 09-48-1125  | A-41815-0547    |
| 09-48-1135  | A-41815-0548    |
| 09-48-1145  | A-41815-0549    |
| 09-48-1155  | A-41815-0550    |

| Material No | Engineer Number |
|-------------|-----------------|
| 41815-0551  | 41815-0551      |
| 41815-0552  | 41815-0552      |
| 41815-0553  | 41815-0553      |
| 41815-0554  | 41815-0554      |
| 41815-0555  | 41815-0555      |
| 41815-0556  | 41815-0556      |
| 41815-0557  | 41815-0557      |
| 41815-0558  | 41815-0558      |
| 41815-0559  | 41815-0559      |
| 41815-0560  | 41815-0560      |
| 41815-0561  | 41815-0561      |
| 41815-0562  | 41815-0562      |
| 41815-0563  | 41815-0563      |

|   |                             |  |  |                                      |
|---|-----------------------------|--|--|--------------------------------------|
| <b>REV:</b><br><br><b>AL6</b>               | <b>ECR/ECN INFORMATION:</b> |  | <b>TITLE:</b><br><br><b>KK 156 HOUSING ASSY PCB<br/>41815 SERIES DWG</b> | <b>SHEET No.</b>                     |
|   | EC NO.                      | <b>UCP2009-0167</b>                            |  | <b>- 9 -</b>                         |
|   | DATE:                       | <b>10/30/2008</b>                              |  |                                      |
| <b>DOCUMENT NUMBER:</b><br><b>SDA-41815</b> |                             | <b>CREATED / REVISED BY:</b><br><b>MKIPPER</b> | <b>CHECKED BY:</b><br><b>JBELL</b>                                       | <b>APPROVED BY:</b><br><b>FSMITH</b> |



# KK 156 PCB ASSY 2-15 CKT

## 41815 SERIES

|              |                   |
|--------------|-------------------|
| Assy. Proc:  | BOTTOM ENTRY      |
| Housing No:  | 41815-N-DN        |
| Options      | WITHOUT RAMPS     |
| Terminal No: | 6298-1-102        |
| Term Matl:   | PHOS BRONZE       |
| Plating:     | 102               |
| Dim C:       | 3.18 / .125       |
| Voids:       | NONE              |
| Hooks Cut:   | NO                |
| Packaging:   | PK-41815-001 TRAY |

|              |                   |
|--------------|-------------------|
| Assy. Proc:  | BOTTOM ENTRY      |
| Housing No:  | 41815-N-DN        |
| Options      | WITHOUT RAMPS     |
| Terminal No: | 6298-1-102        |
| Term Matl:   | PHOS BRONZE       |
| Plating:     | 102               |
| Dim C:       | 3.18 / .125       |
| Voids:       | TERMINAL VOID 2   |
| Hooks Cut:   | NO                |
| Packaging:   | PK-41815-001 TRAY |

|              |                   |
|--------------|-------------------|
| Assy. Proc:  | RIGHT ANGLE       |
| Housing No:  | 41815-N-A15-7     |
| Options      | WITH RAMP         |
| Terminal No: | 2144-BA-A1AA-102B |
| Term Matl:   | PHOS BRONZE       |
| Plating:     | 102 TIN           |
| Dim C:       | (3.68) / .145     |
| Voids:       | TERMINAL VOID 7   |
| Hooks Cut:   | NO                |
| Packaging:   | PK-41815-001 TRAY |

|              |                   |
|--------------|-------------------|
| Assy. Proc:  | TOP ENTRY         |
| Housing No:  | 41815-N-DN        |
| Options      | WITHOUT RAMP      |
| Terminal No: | 2144-BA-A1AA-102B |
| Term Matl:   | PHOS BRONZE       |
| Plating:     | 102 TIN           |
| Dim C:       | (3.05)/.120       |
| Voids:       | NONE              |
| Hooks Cut:   | YES               |
| Packaging:   | PK-41815-001 TRAY |

| Ckts | Material No | Engineer Number |
|------|-------------|-----------------|
| 2    | 41815-0564  | A-41815-0564    |
| 3    | 41815-0565  | A-41815-0565    |
| 4    | 41815-0566  | A-41815-0566    |
| 5    | 41815-0567  | A-41815-0567    |
| 6    | 41815-0568  | A-41815-0568    |
| 7    | 41815-0569  | A-41815-0569    |
| 8    | 41815-0570  | A-41815-0570    |
| 9    | 41815-0571  | A-41815-0571    |
| 10   | 41815-0572  | A-41815-0572    |
| 11   | 41815-0573  | A-41815-0573    |
| 12   | 41815-0574  | A-41815-0574    |
| 13   | 41815-0575  | A-41815-0575    |
| 14   | 41815-0576  | A-41815-0576    |
| 15   | 41815-0577  | A-41815-0577    |

| Material No | Engineer Number |
|-------------|-----------------|
| 41815-0579  | A-41815-0579    |
| 41815-0580  | A-41815-0580    |
| 41815-0581  | A-41815-0581    |
| 41815-0582  | A-41815-0582    |
| 41815-0583  | A-41815-0583    |
| 41815-0584  | A-41815-0584    |
| 41815-0585  | A-41815-0585    |
| 41815-0586  | A-41815-0586    |
| 41815-0587  | A-41815-0587    |
| 41815-0588  | A-41815-0588    |
| 41815-0589  | A-41815-0589    |
| 41815-0590  | A-41815-0590    |
| 41815-0591  | A-41815-0591    |

| Material No | Engineer Number |
|-------------|-----------------|
| 41815-0600  | A-41815-0600    |

| Material No | Engineer Number |
|-------------|-----------------|
| 41815-0601  | A-41815-0601    |
| 41815-0602  | A-41815-0602    |
| 41815-0605  | A-41815-0605    |

|   |                             |  |  |                                       |
|---|-----------------------------|--|--|---------------------------------------|
| <b>REV:</b><br><br><b>AL6</b>               | <b>ECR/ECN INFORMATION:</b> |  | <b>TITLE:</b><br><br><b>KK 156 HOUSING ASSY PCB<br/>41815 SERIES DWG</b> | <b>SHEET No.</b><br><br><b>- 10 -</b> |
|   | EC NO.                      | <b>UCP2009-0167</b>                            |  |                                       |
|   | DATE:                       | <b>10/30/2008</b>                              |  |                                       |
| <b>DOCUMENT NUMBER:</b><br><b>SDA-41815</b> |                             | <b>CREATED / REVISED BY:</b><br><b>MKIPPER</b> | <b>CHECKED BY:</b><br><b>JBELL</b>                                       | <b>APPROVED BY:</b><br><b>FSMITH</b>  |



# KK 156 PCB ASSY 2-15 CKT

## 41815 SERIES

|              |                   |
|--------------|-------------------|
| Assy. Proc:  | RIGHT ANGLE       |
| Housing No:  | 41815-N-DN        |
| Options      | WITHOUT RAMP      |
| Terminal No: | 2144-BA-A1AA-102B |
| Term Matl:   | PHOS BRONZE       |
| Plating:     | 102 TIN           |
| Dim C:       | (3.68) / .145     |
| Voids:       | NONE              |
| Hooks Cut:   | NO                |
| Packaging:   | PK-41815-001 TRAY |

|              |                    |
|--------------|--------------------|
| Assy. Proc:  | TOP ENTRY          |
| Housing No:  | 41815-N-DN         |
| Options      | WITHOUT 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 |
|------|-------------|-----------------|
| 2    | 41815-0630  | A-41815-0630    |
| 3    | 41815-0631  | A-41815-0631    |
| 4    | 41815-0632  | A-41815-0632    |
| 5    | 41815-0633  | A-41815-0633    |
| 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    |

| Material No | Engineer Number |
|-------------|-----------------|
|             |                 |
|             |                 |
| 41815-0646  | A-41815-0646    |
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|---|-----------------------------|--|--|---------------------------------------|
| <b>REV:</b><br><b>AL6</b>                   | <b>ECR/ECN INFORMATION:</b> |  | <b>TITLE:</b><br><br><b>KK 156 HOUSING ASSY PCB</b><br><b>41815 SERIES DWG</b> | <b>SHEET No.</b><br><br><b>- 11 -</b> |
|   | <b>EC NO.</b>               | <b>UCP2009-0167</b>                            |  |                                       |
|   | <b>DATE:</b>                | <b>10/30/2008</b>                              |  |                                       |
| <b>DOCUMENT NUMBER:</b><br><b>SDA-41815</b> |                             | <b>CREATED / REVISED BY:</b><br><b>MKIPPER</b> | <b>CHECKED BY:</b><br><b>JBELL</b>   | <b>APPROVED BY:</b><br><b>FSMITH</b>  |

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