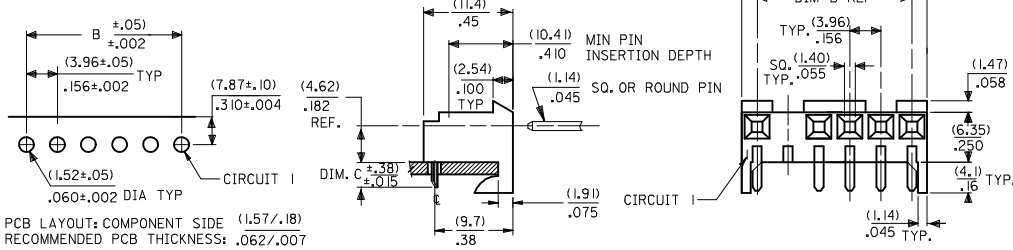
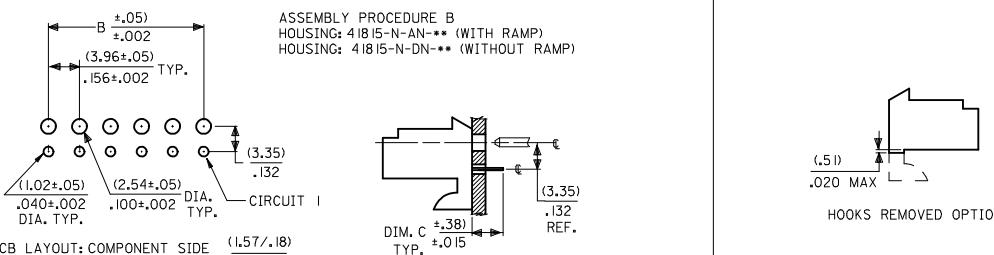


ASSEMBLY PROCEDURE A
HOUSING: 41815-N-AN-** (WITH RAMP)
HOUSING: 41815-N-DN-** (WITHOUT RAMP)



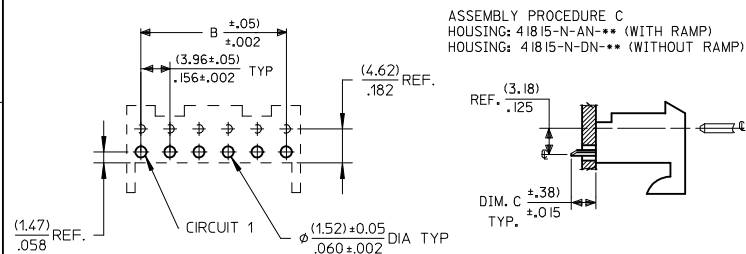
| DIM. B | DIM. A | NO. OF CKTS |
|---------------|------------------------|-------------|
| (3.96) .156 | (7.82±.25) .308±.010 | 2 |
| (7.92) .312 | (11.79±.25) .464±.010 | 3 |
| (11.89) .468 | (15.75±.25) .620±.010 | 4 |
| (15.85) .624 | (19.71±.25) .776±.010 | 5 |
| (19.81) .780 | (23.67±.25) .932±.010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

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



- 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.

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



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

| | | | | | | | | | | |
|---|-------------------------------|---------------------------------------|---------------------------|--------------------------|------------------|------------------------------------|----------------------|------------------------|--|--|
| ADD PART NUMBERS EC NO: UCP2009-1067 DRW:MKIPPER 2008/10/27 CHKD:JBELL 2008/10/30 APPR:FSM/TH 2008/10/30 | QUALITY SYMBOLS ▽=0 ▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE MM/IN | | SCALE --- | DESIGN UNITS INCH | THIRD ANGLE PROJECTION | | |
| | | 4 PLACES ± --- ± --- | 3 PLACES ± --- ± .010 | DRAWN BY SAMIEC | DATE 01/28/87 | KK 156 HOUSING PCB 41815 SERIES | | | | |
| | | 2 PLACES ± 0.25 ± .015 | 1 PLACE ± 0.36 ± --- | CHECKED BY SAMIEC | DATE 01/28/87 | | | | | |
| | | ANGULAR ±1/2° | | APPROVED BY LENZ | DATE 01/28/87 | MOLEX INCORPORATED | | | | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | MATERIAL NO. SEE CHART | DOCUMENT NO. SDA-41815 | SHEET NO. 1 OF 11 | | | | | | |

| | |
|------|------|
| 2-11 | AL6 |
| 1 | AL6 |
| SHT. | REV. |



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 |

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



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 |

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



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 |

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



KK 156 PCB ASSY 2-15 CKT

41815 SERIES

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

| | |
|--------------|-------------------|
| 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: | (4.60) / .160 |
| Voids: | NONE |
| Hooks Cut: | NO |
| Packaging: | PK-41815-001 TRAY |

| | |
|--------------|-------------------|
| Assy. Proc: | BOTTOM ENTRY |
| Housing No: | 41815-N-AN |
| Options | WITH RAMP |
| Terminal No: | 2188-1-228 |
| Term Matl: | BRASS |
| Plating: | 228 – GOLD |
| 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-P909B |
| Term Matl: | BRASS |
| Plating: | P909 – TIN |
| Dim C: | (3.68) / .145 |
| Voids: | NONE |
| Hooks Cut: | NO |
| Packaging: | PK-41815-001 TRAY |

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

| Material No | Engineer Number |
|-------------|-----------------|
| 09-48-4021 | A-41815-0170 |
| 09-48-4031 | A-41815-0171 |
| 09-48-4041 | A-41815-0172 |
| 09-48-4051 | A-41815-0173 |
| 09-48-4061 | A-41815-0174 |
| 09-48-4071 | A-41815-0175 |
| 09-48-4081 | A-41815-0176 |
| 09-48-4091 | A-41815-0177 |
| 09-48-4101 | A-41815-0178 |
| 09-48-4111 | A-41815-0179 |
| 09-48-4121 | A-41815-0180 |
| 09-48-4131 | A-41815-0181 |
| 09-48-4141 | A-41815-0182 |
| 09-48-4151 | A-41815-0183 |

| Material No | Engineer Number |
|-------------|-----------------|
| 41815-0184 | A-41815-0184 |
| 09-48-5030 | A-41815-0185 |
| 09-48-5040 | A-41815-0186 |
| 09-48-5050 | A-41815-0187 |
| 41815-0188 | A-41815-0188 |
| 41815-0189 | A-41815-0189 |
| 09-48-5090 | A-41815-0190 |
| 41815-0191 | A-41815-0191 |
| 09-48-5100 | A-41815-0192 |
| 41815-0193 | A-41815-0193 |
| 41815-0194 | A-41815-0194 |
| 41815-0195 | A-41815-0195 |
| 41815-0196 | A-41815-0196 |
| 41815-0197 | A-41815-0197 |

| Material No | Engineer Number |
|-------------|-----------------|
| 09-48-2021 | A-41815-0198 |
| 09-48-2031 | A-41815-0199 |
| 09-48-2041 | A-41815-0200 |
| 09-48-2051 | A-41815-0201 |
| 09-48-2061 | A-41815-0202 |
| 09-48-2071 | A-41815-0203 |
| 09-48-2081 | A-41815-0204 |
| 09-48-2091 | A-41815-0205 |
| 09-48-2101 | A-41815-0206 |
| 09-48-2111 | A-41815-0207 |
| 09-48-2121 | A-41815-0208 |
| 09-48-2131 | A-41815-0209 |
| 09-48-2141 | A-41815-0210 |
| 09-48-2151 | A-41815-0211 |

| | | | | |
|---|-----------------------------|--|--|--------------------------------------|
| REV: AL6 | ECR/ECN INFORMATION: | | TITLE: KK 156 HOUSING ASSY PCB 41815 SERIES DWG | SHEET No. |
| | EC NO. | UCP2009-0167 | | - 5 - |
| | DATE: | 10/30/2008 | | |
| DOCUMENT NUMBER: SDA-41815 | | CREATED / REVISED BY: MKIPPER | CHECKED BY: JBELL | APPROVED BY: FSMITH |



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 |
|------|-------------|-----------------|
| 2 | 09-48-5023 | A-41815-0313 |
| 3 | 09-48-5033 | A-41815-0314 |
| 4 | 09-48-5043 | A-41815-0315 |
| 5 | 09-48-5053 | A-41815-0316 |
| 6 | 09-48-5063 | A-41815-0317 |
| 7 | 09-48-5073 | A-41815-0318 |
| 8 | 09-48-5083 | A-41815-0319 |
| 9 | 09-48-5093 | A-41815-0320 |
| 10 | 09-48-5103 | A-41815-0321 |
| 11 | 09-48-5113 | A-41815-0322 |
| 12 | 09-48-5123 | A-41815-0323 |
| 13 | 09-48-5133 | A-41815-0324 |
| 14 | 09-48-5143 | A-41815-0325 |
| 15 | 09-48-5153 | A-41815-0326 |

| Material No | Engineer Number |
|-------------|-----------------|
| 41815-0327 | A-41815-0327 |
| 41815-0328 | A-41815-0328 |
| 41815-0329 | A-41815-0329 |
| 09-48-2056 | A-41815-0330 |
| 41815-0331 | A-41815-0331 |
| 41815-0332 | A-41815-0332 |
| 09-48-2086 | A-41815-0333 |
| 41815-0334 | A-41815-0334 |
| 09-48-2106 | A-41815-0335 |
| 41815-0336 | A-41815-0336 |
| 41815-0337 | A-41815-0337 |
| 41815-0338 | A-41815-0338 |
| 41815-0339 | A-41815-0339 |
| 41815-0340 | A-41815-0340 |

| Material No | Engineer Number |
|-------------|-----------------|
| 41815-0341 | A-41815-0341 |
| 09-48-3037 | A-41815-0342 |
| 41815-0343 | A-41815-0343 |
| 41815-0344 | A-41815-0344 |
| 41815-0345 | A-41815-0345 |
| 41815-0346 | A-41815-0346 |
| 41815-0347 | A-41815-0347 |
| 41815-0348 | A-41815-0348 |
| 41815-0349 | A-41815-0349 |
| 41815-0350 | A-41815-0350 |
| 41815-0351 | A-41815-0351 |
| 41815-0352 | A-41815-0352 |
| 41815-0353 | A-41815-0353 |
| 41815-0354 | A-41815-0354 |

| Material No | Engineer Number |
|-------------|-----------------|
| 41815-0355 | A-41815-0355 |
| 41815-0356 | A-41815-0356 |
| 09-48-2047 | A-41815-0357 |
| 41815-0358 | A-41815-0358 |
| 41815-0359 | A-41815-0359 |
| 41815-0360 | A-41815-0360 |
| 41815-0361 | A-41815-0361 |
| 41815-0362 | A-41815-0362 |
| 09-48-2107 | A-41815-0363 |
| 41815-0364 | A-41815-0364 |
| 41815-0365 | A-41815-0365 |
| 41815-0366 | A-41815-0366 |
| 41815-0367 | A-41815-0367 |
| 41815-0368 | A-41815-0368 |

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



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 |

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



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 |

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



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



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 |

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

