

| | |
|-----------------|---------------|
| Board Name | SAT0023E3 |
| Project Details | . |
| Due Date | 08/26/2013 |
| QTY | 10 |
| JOB NUMBER | 120315 |
| CUST. CONTACT | Ajinder Singh |
| KS ID | 13707 |

- CUST PROVIDED
- DNI
- SPECIAL INSTRUCTIONS
- HARDWARE
- TBD

BOM TITLE BAR

- Leaded Process
- ROHS Compliant Process

CERAMIC CAPACITORS

| | | | | | | | |
|-----|------|------|------|------|------|------|------|
| STD | 0201 | 0402 | 0603 | 0805 | 1206 | 1210 | mils |
| EIA | 0603 | 1005 | 1608 | 2012 | 3216 | 3225 | mm |

TANTALUM CAPACITORS

| | | | | | | | | | |
|-----|---------|---------|---------|---------|---------|---------|---------|----------|------|
| STD | TANT_A | TANT_B | TANT_C | TANT_D | TANT_E | TANT_E | TANT_R | TANT_Z | mils |
| EIA | 3.2x1.6 | 3.5x2.8 | 6.0x3.2 | 7.3x4.3 | 7.2x6.0 | 7.3x4.3 | 2.0x1.2 | 2.0x1.25 | mm |

SAME FOOTPRINT, VARIABLE HEIGHT

TANT_A & TANT_P
TANT_B & TANT_T
TANT_D,E,V, & X

SOLID TANTALUM CHIP CAPACITORS (ORANGE)

| | | | | | | | | |
|------|---------|---------|---------|----------|---------|---------|---------|---------|
| CASE | A | B | C | G | H | D | M | R |
| mm | 3.7x1.8 | 4.0x2.8 | 7.1x3.2 | 5.2x3.65 | 5.2x4.6 | 7.5x4.3 | 3.3x2.7 | 7.2x6.0 |

CAPACITORS CONVERSION EXAMPLE

| | | |
|-------|----|-------|
| uF | nF | pF |
| 0.001 | 1 | 1000 |
| 0.022 | 22 | 22000 |

RESISTORS CONVERSION EXAMPLE

| | | |
|-------|-----|--------|
| Ω | kΩ | MΩ |
| 1000 | 1k | 0.001M |
| 47000 | 47k | 0.047M |

NOTES & INSTRUCTIONS

Master Copy

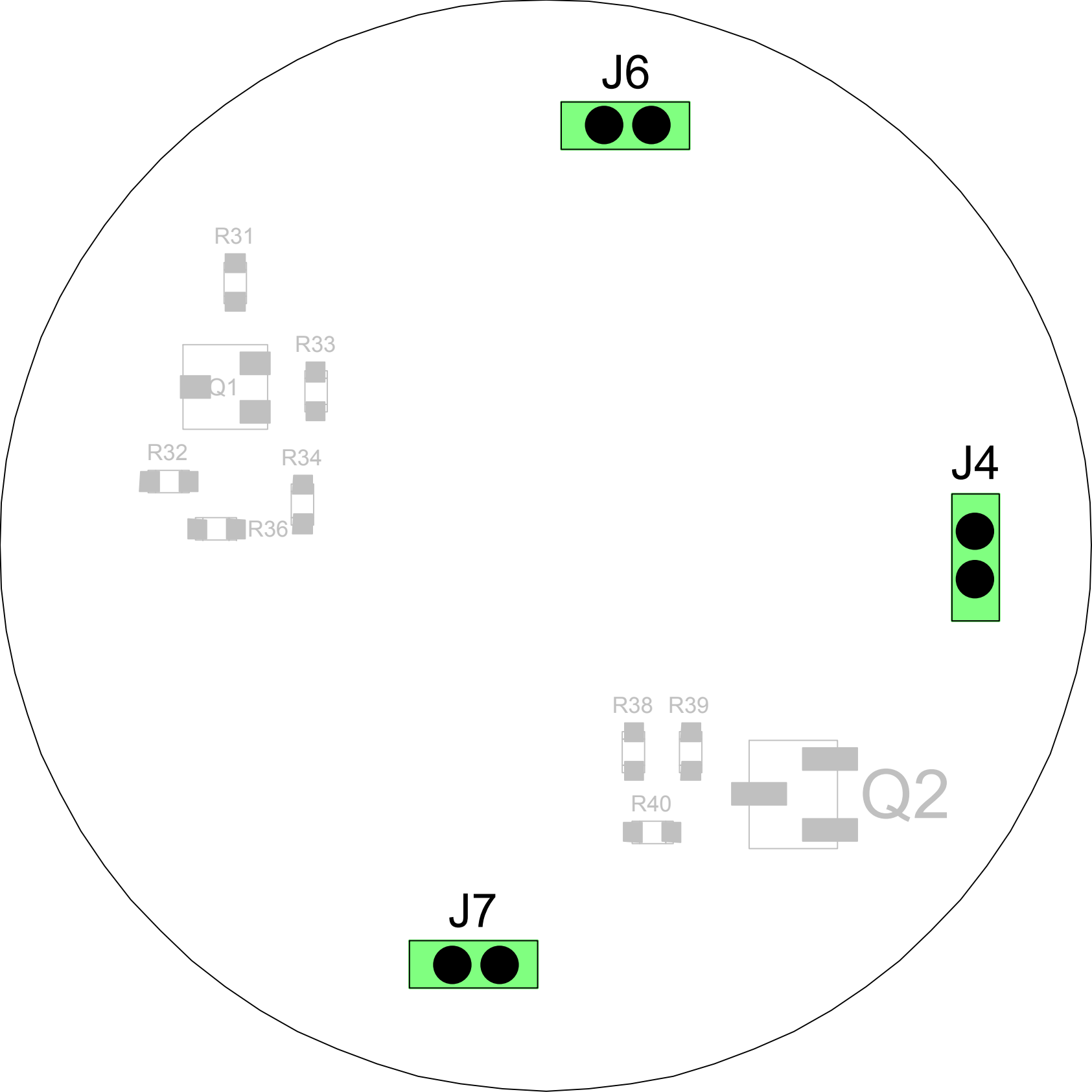
REVIEWED

By ARanpariya at 3:24 pm, Aug 14, 2013

| | | | | | |
|------|-----------|------------|------------|--|--|
| Date | 6/11/2013 | 06/27/2013 | 08/13/2013 | | |
|------|-----------|------------|------------|--|--|

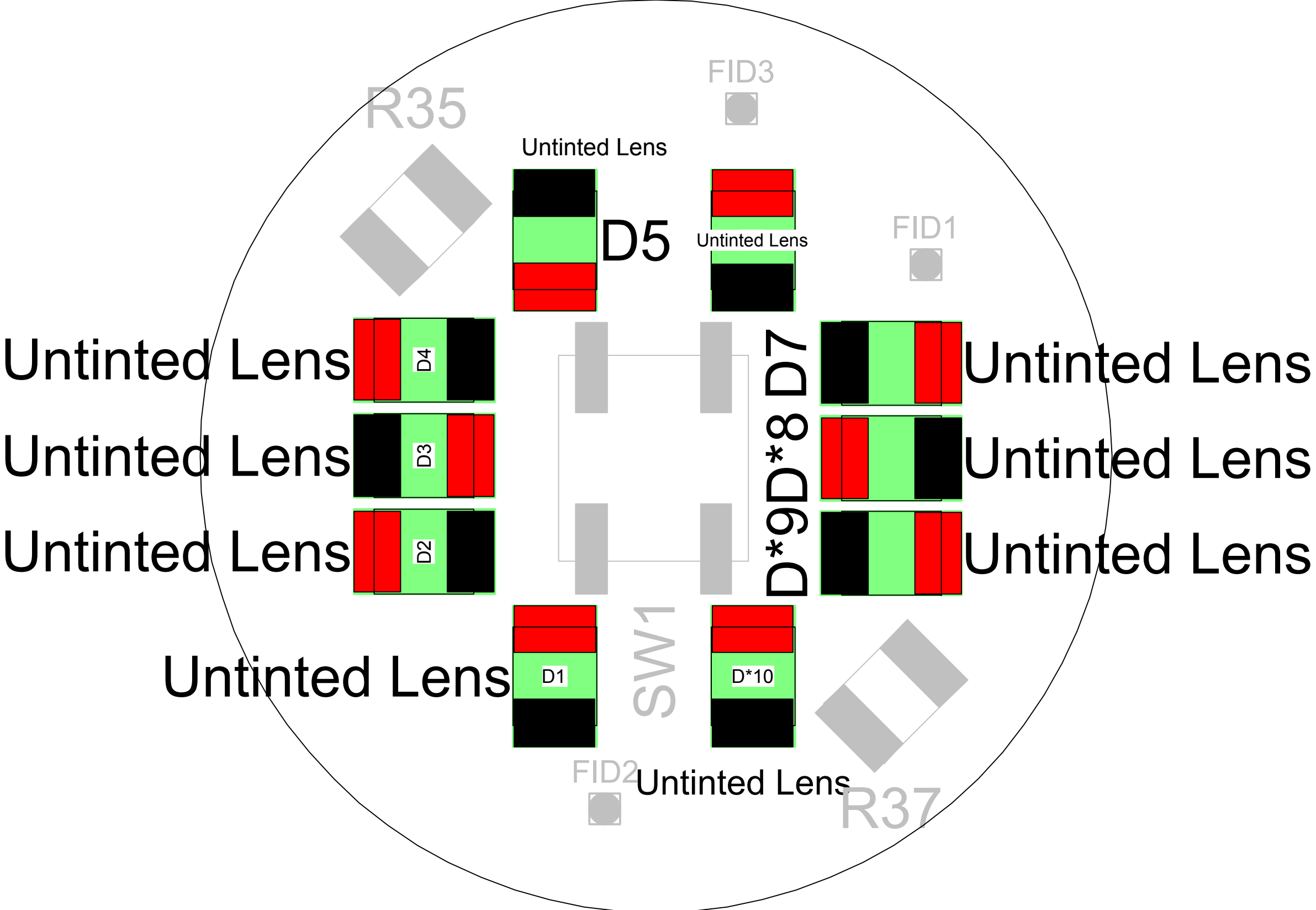
| | | | | | |
|----------------|-----|-----|-----|--|--|
| KS Revision No | 1.0 | 1.0 | 1.0 | | |
|----------------|-----|-----|-----|--|--|

| LINE NO. | KS PART NUMBER | CUSTOMER PART NUMBER | QTY | VALUE | DESIGNATORS | PKG/ CASE | T.COEFF/ PWR | TOL | VOLT RATED | DESCRIPTION | DISTRIBUTOR | DIST P/N | MANUFACTURER | MNFR. PART # | LOT NO |
|----------|----------------|----------------------|-----|----------------------------|--|---------------------|--------------|------|------------|---------------------------------|--------------------------|--------------------|----------------------------|--------------------|--------------|
| 1 | 11074 | M 20/CORNER 1 | 2 | 0.0 (Zero Ohm) | R32, R39 | 0402 | 1/10W | 5 | | Resistors | Digi-Key | 311-0.0JRTR-ND | Panasonic - Ecg | ERJ-2GE0R00X | K10000050085 |
| 2 | 14220 | M 14 | 3 | 10.0K | R31, R33, R40 | 0402 | 1/10W | 1 | | Resistors | Digi-Key | P10.0KLTR-ND | Yageo America | ERJ-2RKF1002 | K10000048777 |
| 3 | 22936 | MVK-RES-1 | 1 | 33.0K | R34 | 0402 | 1/10W | 5 | | Resistors | Digi-Key | P33KJTR-ND | Panasonic - Ecg | ERJ-2GEJ333X | K10000029544 |
| 4 | 27520 | P 10 | 1 | 10 | R37 | 1210 | 1/2W | 1 | | Resistors | Digi-Key | P10.0AACT-ND | Panasonic Electronic Compo | ERJ-14NF10R0U | K10000049526 |
| 5 | 27517 | P 10 | 1 | 110 | R35 | 1210 | 1/2W | 1 | | Resistors | Digi-Key | 541-110AACT-ND | Vishay Dale | CRCW1210110RFKEA | K10000049527 |
| 6 | 27537 | Z 9 | 10 | LED GREEN-YELLOW RND CLEAR | D1, D2, D3, D4, D5, D6, D7, D*8, D*9, D*10 | 3.20mm L x 2.80mm W | 10mA | 13.5 | 2.2V | Optoelectronics | Digi-Key | 516-2250-2-ND | Avago Technologies Us Inc | HSMG-A100-K72J2 | K10000048006 |
| 7 | 22007 | AE 10 | 1 | N - Channel | Q2 | SOT-23-3 | 830mW | 385 | 60V | Discrete Semiconductor Products | Digi-Key | 568-4858-2-ND | Nxp Semiconductors | 2N7002E,215 | K10000027175 |
| 8 | 27516 | AE 41 | 1 | MOSFET N-CH | Q1 | SOT-323 | | 170 | 100V | Discrete Semiconductor Products | Digi-Key | BSS123W-FDICT-ND | Diodes Inc | BSS123W-7-F | K10000049513 |
| 9 | 27539 | AF 13 | 1 | SPST-NO Off-Mom | SW1 | 6.20mm x 6.20mm | 0.05A | 0 | 32V | Switches | Digi-Key | CKN9195CT-ND | C&K Components | KSC222J LFS | K10000049523 |
| 10 | 27538 | AM 89 | 3 | 2 pos | J4, J6, J7 | T/H | | | | Connectors | Major League Electronics | SSHS-501-D-04-G-LF | Major League Electronics | SSHS-501-D-04-G-LF | K10000049529 |
| 11 | DNI | DNI | 2 | DNI | R36, R38 | DNI | DNI | 0 | DNI | Undefined Category | Digi-Key | 311-0.0JRTR-ND | DNI | dni | K10000050085 |



SAT0023 E3
KS-T/H-BOTTOM

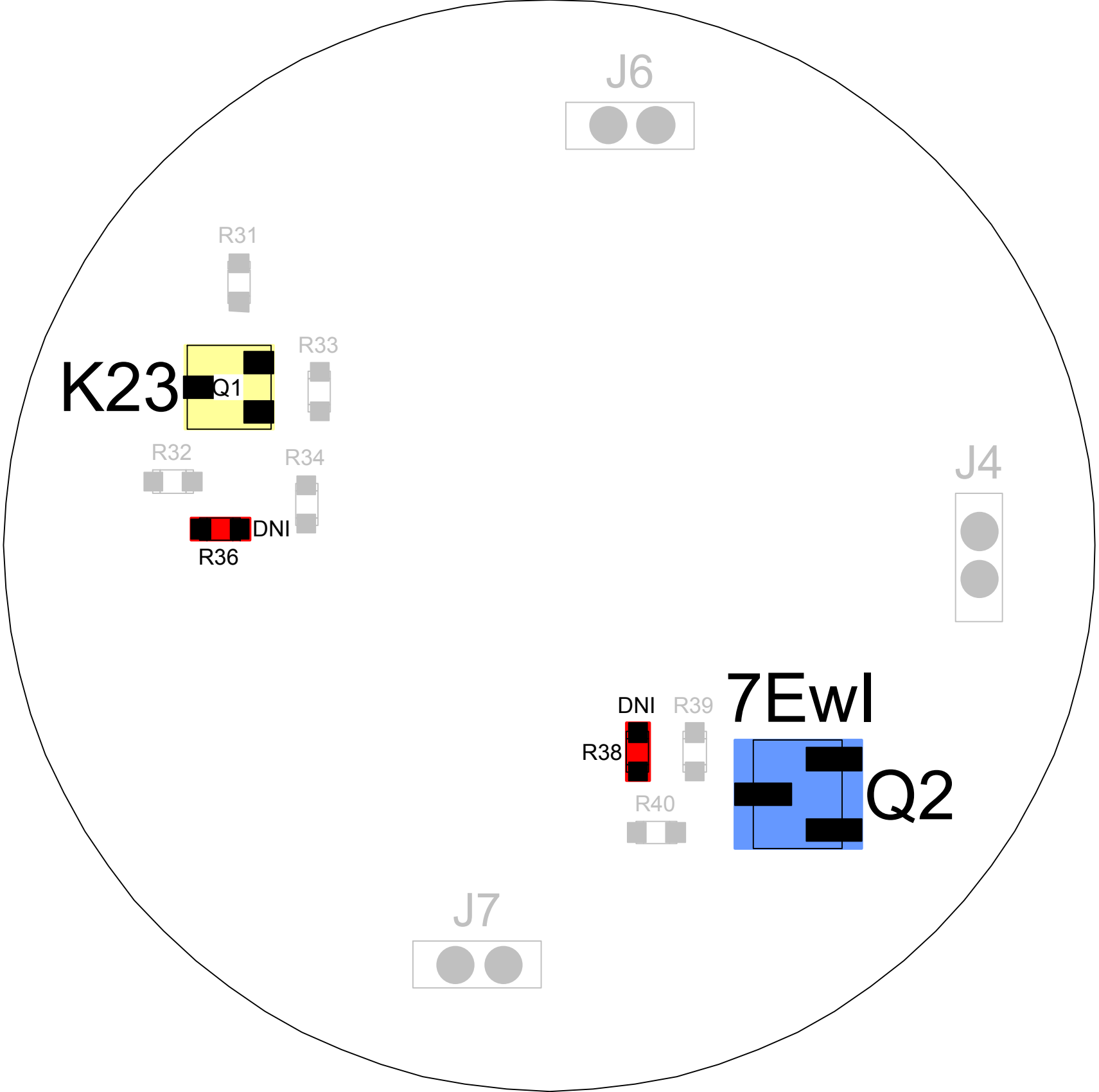
| Color | Part Number | Quantity | Reference | Description |
|-------|-------------|----------|-----------|----------------------|
| | 27538 | 3 | J4, J6-J7 | Connectors T/H 2 pos |
| | | | | |



SAT0023 E3

KS-QC-TOP

| Color | Part Number | Quantity | Reference | Description | Part Marking |
|-------|-------------|----------|-----------------|--|---------------|
| | 27537 | 10 | D1-D7, D*8-D*10 | Optoelectronics 3.20mm L x 2.80mm W LED GREEN-YELLOW RND CLEAR | Untinted Lens |
| | | | | | |



SAT0023 E3
KS-QC-BOTTOM

| Color | Part Number | Quantity | Reference | Description | Part Marking |
|-------|-------------|----------|-----------|--|--------------|
| | 22007 | 1 | Q2 | Discrete Semiconductor Products SOT-23-3 N - Channel | 7Ewl |
| | 27516 | 1 | Q1 | Discrete Semiconductor Products SOT-323 MOSFET N-CH | K23 |
| | DNI | 2 | R36, R38 | Undefined Category DNI DNI | DNI |
| | | | | | |

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