

| #  | QTY  |         | REFDES | DESCRIPTION                            | MANUFACTURER   | MFG_PART_NO         |                   |
|----|------|---------|--------|--|--|---------------------|-------------------|
|    | 6644 | 6645-80 |        |  |  |                     | 6645-105          |
| 1  | 1    | 1       | 1      | PCB                                    | PRINTED CIRCUIT BOARD, 6644/45 ENGINEERING EVAL. BOARD   | PCSM                | 6645EE01D REV D   |
| 2  | 4    | 4       | 4      | C1-2,C31,C38                           | CAPACITOR, TANTALUM, SMT BCAPTAJC, 10UF, 16V, 10%        | KEMET               | T491C106K016AS    |
| 3  | 8    | 8       | 8      | C3,C7-10,C16,C30,C32                   | CAPACITOR, CERAMIC, SMT 0508, 0.1UF, 16V, 10%            | PRESIDIO COMPONENTS | 0508X7R104K16VP3  |
| 4  | 9    | 9       | 9      | C4,C15,C22-26,C29,(C33),<br>(C34), C39 | CAPACITOR, CERAMIC, SMT 0805, 0.1UF, 25V, 10%            | PANASONIC           | ECJ-2VB1E104K     |
| 5  | 0    | 0       | 0      | (C5, C6)                               | CAPACITOR, CERAMIC, SMT 0805, 0.01UF, 50V, 10%           | PANASONIC           | ECJ-2YB1H103K     |
| 6  | 10   | 10      | 10     | C11-14,C17-21,C40                      | CAPACITOR, CERAMIC, SMT 0508, 0.01UF, 50V, 0.2           | PRESIDIO COMPONENTS | 0508X7R103M2P3    |
| 7  | 0    | 0       | 0      | (C27-28)                               | CAPACITOR, CERAMIC, SMT 0805, SELECT                     |                     |                   |
| 8  | 1    | 1       | 1      | CR1                                    | DIODE, DIODE, DUAL SCHOTTKY HSMS2812, SOT23, 30 V, 20 MA | PANASONIC           | MA716-(TX)        |
| 9  | 1    | 1       | 1      | E1                                     | INSTALL JUMPER (ACROSS OPT_LAT & BUFLAT)                 |                     |                   |
| 10 | 5    | 5       | 5      | F1-5                                   | EMI SUPPRESSION FERRITE CHIP, SMT 0805                   | STEWART             | HZ0805E601R-00    |
| 11 | 1    | 1       | 1      | J1                                     | HEADER, 6 PIN, PIN STRIP, 5mm PITCH                      | WIELAND             | Z5.530.0625.0     |
| 12 | 1    | 1       | 1      | J1                                     | PIN STRIP, 6 PIN, 5mm PITCH                              | WIELAND             | 25.602.2653.0     |
| 13 | 1    | 1       | 1      | J2                                     | HEADER, 40 PIN, MALE, 40P RIGHT ANGLE                    | SAMTEC              | TSW-120-08-T-D-RA |
| 14 | 2    | 2       | 2      | (J3) J4, J5                            | CONNECTOR,GOLD, MALE, COAX., SMA, VERTICLE               | JOHNSTON COMPONENTS | 142-0701-201      |
| 15 | 1    | 1       | 1      | L1                                     | INDUCTOR, SMT, 1008CT PKG, 4.7nH                         | COILCRAFT           | 1008CT-040X-J     |
| 16 | 0    | 0       | 0      | (R1)                                   | RESISTOR, THICK FILM, SMT 0402, 100 OHM, 1/16W, 1%       | PANASONIC           | ERJ-2RKF1000V     |
| 17 | 0    | 0       | 0      | (R2)                                   | RESISTOR, THICK FILM, SMT 1206, 60.4 OHM, 1/8W, 1%       | PANASONIC           | ERJ-8ENF60R4V     |
| 18 | 2    | 2       | 2      | (R3-5),(R8),R9,R10                     | RESISTOR, THICK FILM, SMT 0805, 499 OHM, 1/10W, 1%       | PANASONIC           | ERJ-6ENF4990V     |
| 19 | 2    | 2       | 2      | R6-7                                   | RESISTOR, THICK FILM, SMT 0805, 25.5 OHM, 1/10W, 1%      | PANASONIC           | ERJ-6ENF25R5V     |
| 20 | 0    | 0       | 0      | (R11),(R13)                            | RESISTOR, THICK FILM, SMT 0805, 66.5 OHM, 1/10W, 1%      | PANASONIC           | ERJ-6ENF66R5V     |
| 21 | 0    | 0       | 0      | (R12),(R14)                            | RESISTOR, THICK FILM, SMT 0805, 100 OHM, 1/10W, 1%       | PANASONIC           | ERJ-6ENF1000V     |
| 22 | 1    | 1       | 1      | R15                                    | RESISTOR, THICK FILM, SMT 0402, 178 OHM, 1/16W, 1%       | PANASONIC           | ERJ-2RKF1780X     |
| 23 | 1    | 1       | 1      | R35                                    | RESISTOR, THICK FILM, SMT 0805, 49.9 OHM, 1/10W, 1%      | PANASONIC           | ERJ-6ENF49R9V     |
| 24 | 4    | 4       | 4      | RN1-RN4                                | RESISTOR ARRAY, SMT 0402; 100 OHM; 8 ISO RES.,1/4W; 5%   | PANASONIC           | EXB2HV101JV       |
| 25 | 2    | 2       | 2      | T2-3                                   | TRANSFORMER, ADT4-1WT, CD542, ADT4-1WT, 2-775MHZ         | MINI-CIRCUITS       | ADT4-1WT          |
| 26 | 1    | 0       | 0      | U1                                     | IC, 14 BIT 65 MSPS AtoD CONVERTER, QFP-52                | ANALOG DEVICES      | AD6644ST-65       |
| 27 | 0    | 1       | 0      | U1                                     | IC, 14 BIT 80 MSPS AtoD CONVERTER, QFP-52                | ANALOG DEVICES      | AD6645ASQ-80      |
| 28 | 0    | 0       | 1      | U1                                     | IC, 14 BIT 105 MSPS AtoD CONVERTER, QFP-52               | ANALOG DEVICES      | AD6645ASQ-105     |
| 29 | 2    | 2       | 2      | U2,U7                                  | IC, SOIC-20, OCTAL D-TYPE FLIP-FLOP                      | FAIRCHILD           | 74LCX574WM        |
| 30 | 0    | 0       | 0      | (U3)                                   | IC, SOIC-8, LOW DISTORTION DIFFERENTIAL ADC DRIVER       | ANALOG DEVICES      | AD8138ARM         |
| 31 | 2    | 2       | 2      | U4,U6                                  | IC, SOT-23, TINYLOGIC UHS 2-INPUT OR GATE                | FAIRCHILD           | NC7SZ32           |
| 32 | 0    | 0       | 0      | (U8)                                   | IC, SOIC-8, DIFFERENTIAL RECEIVER                        | MOTOROLA            | MC100EL16         |
| 33 | 1    | 0       | 0      | Y1                                     | CLOCK OSCILLATOR, 66.6666MHz                             | CTS REEVES          | MX045-66.6666     |
| 34 | 0    | 1       | 0      | Y1                                     | CLOCK OSCILLATOR, 80MHz                                  | CTS REEVES          | MX045-80          |
| 35 | 4    | 4       | 4      | Y1                                     | PIN SOCKETS, CLOSED END                                  | AMP                 | 5-330808-3        |
| 36 | 4    | 4       | 4      |  | CIRCUIT BOARD SUPPORT                                    | RICHO               | CBSB-14-01        |

**NOTES:**

1. REFERENCE DESIGNATORS IN PARENTHESES ARE NOT INSTALLED ON STANDARD UNITS
2. AC COUPLED **AIN** IS STANDARD: R3,R4,R5,R8 & U3 ARE NOT INSTALLED. IF DC COUPLED AIN C30 & T3 ARE NOT INSTALLED
3. AC COUPLED **ENCODE** IS STANDARD: C5, C6, C33, C34, R1, R11-R14 & U8 ARE NOT INSTALLED.  
IF DC COUPLED **ENCODE** CR1 & T3 ARE NOT INSTALLED