



**ASSEMBLY: PSG5220**

**PCB: PSG5220**

**RELEASE DATE:10 Jan 11**

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**Bill of Materials**

| Item | Qty | Reference Designator  | Description                                | MFG             | MFG P/N            | Footprint |
|------|-----|-----------------------|--|-----------------|--------------------|-----------|
| 1    | 3   | C11-12,C17            | CAP, 1UF, 50V, CER, 10%, X5R, 0603         | TAIYO YUDEN     | UMK107BJ105KA-T    | 0603      |
| 2    | 2   | C1-2                  | CAP, 68UF, 6.3V, TANT, 20%, 3528-21        | KEMET           | T520B686M006ATE040 | 3528-21   |
| 3    | 8   | C13-14,C19,C26,C28-31 | CAP, 0.1UF, 16V, CER, X5R, 0402            | PANASONIC       | ECJ-0EB1C104K      | 0402      |
| 4    | 2   | C15-16                | CAP, 2.2UF, 10V, CER, X5R, 0603            | PANASONIC       | ECJ-1VB1A225K      | 0603      |
| 5    | 4   | C18,C20,C22,C24       | CAP, 10UF, 35V, CER, X5R, 1210             | TAIYO YUDEN     | GMK325BJ106KN      | 1210      |
| 6    | 3   | C25,C27,C34           | CAP, 4.7UF, 6.3V, CER, X5R, 0603           | PANASONIC       | ECJ-1VB0J475K      | 0603      |
| 7    | 1   | C32                   | CAP, 10000PF, 50V, CER, X7R, 0603          | PANASONIC       | ECJ-1VB1H103K      | 0603      |
| 8    | 1   | C33                   | CAP, 0.1UF, 50V, CER, X7R, 0603            | PANASONIC       | ECJ-1VB1H104K      | 0603      |
| 9    | 3   | C7-8,C21              | CAP, 10UF, 6.3V, CER, X5R, 20%, 0805       | TDK             | C2012X5R0J106M     | 0805      |
| 10   | 2   | C9-10                 | CAP, 180PF, 50V, CER, NPO, 0402            | PANASONIC       | ECJ-0EC1H181J      | 0402      |
| 11   | 2   | D1-2                  | DIODE, SCHOTTKY, 40V, 0.25A, SOD-323       | ON SEMI         | NSR0340HT1G        | SOD-323   |
| 12   | 2   | L1-2                  | IND, 3.0UH, 3.6A, SMD                      | TAIYO YUDEN     | NR6028T3R0N        | 6MMx6MM   |
| 13   | 2   | Q1-2                  | Q, NMOS, DUAL, 30V, 6.9A, SCHOTTKY, SOIC-8 | FAIRCHILD SEMI. | FDS6900AS          | SOIC-8    |
| 14   | 1   | R1                    | RES, 0.082, 0.5W, 1%, 100PPM, 1206 THF     | SUSUMU          | RL1632R-R082-F     | 1206      |
| 15   | 2   | R11,R17               | RES, 1R, 0.063W, 5%, 0402, TKF             | PANASONIC       | ERJ-2GEJ1R0X       | 0402      |
| 16   | 6   | R13-15,R18-20         | RES, 10K, 0.063W, 1%, 0402, TKF            | YAGEO           | RC0402FR-0710KL    | 0402      |
| 17   | 1   | R2                    | RES, .04, 3W, 1%, SMT                      | BOURNS          | CRA2512-FZ-R040ELF | 2512      |
| 18   | 2   | R3,R5                 | RES, 100R, 0.063W, 5%, 0402, TKF           | PANASONIC       | ERJ-2GEJ101X       | 0402      |
| 19   | 2   | R4,R6                 | RES, 133R, 0.063W, 1%, 0402, TKF           | PANASONIC       | ERJ-2RKF1330X      | 0402      |
| 20   | 1   | U1                    | POWERSAGE DC-DC CONV, QFN-56               | PACKET DIGITAL  | PSG5220            | QFN-56    |