

Filename: PMP5225\_REVA\_bom.xls

Date: November 19, 2009

test interface shaded

## PMP5225\_REVA BOM

| COUNT | RefDes             | Value       | Description   | Size               | Part Number         | MFR               |
|-------|--------------------|-------------|---|--------------------|---------------------|-------------------|
| 3     | C1, C2, C5         | 22uF        | Capacitor, Ceramic, 16V, X7R, 20%                       | 1210               | Std                 | Vishay            |
| 1     | C11                | 1uF         | Capacitor, Ceramic, 1uF, 6.3V, X5R, 10%, 0402           | 0402               | Std                 | Std               |
| 1     | C12                | 4.7uF       | Capacitor, Ceramic, 4.7uF, 6.3V, X5R, 10%, 0603         | 0603               | Std                 | Std               |
| 0     | C13                | Open        | Capacitor, Ceramic, Open, 0402                          | 0402               | NA                  | NA                |
| 1     | C14                | 0.033uF     | Capacitor, Ceramic, 0.033uF, 16V, X7R, 10%, 0402        | 0402               | Std                 | Std               |
| 1     | C15                | 1000pF      | Capacitor, Ceramic, 50V, X7R, 15%                       | 0805               | Std                 | Std               |
| 1     | C3                 | 1uF         | Capacitor, Ceramic, 1uF, 25V, X5R, 10%, 0805            | 0805               | Std                 | Std               |
| 1     | C4                 | 330uF       | Capacitor, POSCAP, 330uF, 2.5V, 0.012 Ohms, 20%, Case C | 6032 (C)           | 2R5TPE330MCC2       | Sanyo             |
| 2     | C6, C8             | 10uF        | Capacitor, Ceramic, 10uF, 6.3V, X5R, 10%, 0805          | 0805               | Std                 | Std               |
| 1     | C7                 | 0.1uF       | Capacitor, Ceramic, 0.1uF, 16V, X7R, 10%, 0402          | 0402               | Std                 | Std               |
| 2     | C9, C10            | 22uF        | Capacitor, Ceramic, 22uF, 6.3V, X5R, 20%, 0805          | 0805               | Std                 | Std               |
| 3     | J1, J5, J6         | ED1514      | Terminal Block, 2-pin, 6-A, 3.5mm                       | 0.27 x 0.25 inch   | ED1514              | OST               |
| 3     | J2, J3, J7         | PEC02SAAN   | Header, Male 2-pin, 100mil spacing,                     | 0.100 inch x 2     | PEC02SAAN           | Sullins           |
| 1     | J4                 | ED1609-ND   | Terminal Block, 2-pin, 15-A, 5.1mm                      | 0.40 x 0.35 inch   | ED1609              | OST               |
| 1     | L1                 | 1uH         | Inductor, SMT, 1.0uH, 13A, 6.5mOhms                     | 0.255 x 0.270 inch | IHLPT2525EZER1R0M01 | Vishay Dale       |
| 2     | Q1, Q2             | CSD16406Q3  | MOSFET, NChan, 25V, 4.2milliOhm                         | QFN3X3mm           | CSD16406Q3          | Texas Instruments |
| 2     | R1, R3             | 10K         | Resistor, Chip, 10K Ohms, 1%, 0402                      | 0402               | Std                 | Std               |
| 1     | R2                 | 100K        | Resistor, Chip, 100K Ohms, 1%, 0402                     | 0402               | Std                 | Std               |
| 1     | R4                 | 12.1k       | Resistor, Chip, 1%, 0402                                | 0402               | Std                 | Std               |
| 1     | R5                 | 5.1         | Resistor, Chip, 5.1 Ohms, 5% 0402                       | 0402               | Std                 | Std               |
| 2     | R6, R7             | 4.75k       | Resistor, Chip, 1%, 0402                                | 0402               | Std                 | Std               |
| 1     | R8                 | 1.5         | Resistor, Chip, 5%, 0805                                | 0805               | Std                 | Std               |
| 4     | TP1, TP3, TP5, TP7 | 5000        | Test Point, Red, Thru Hole Color Keyed                  | 0.100 x 0.100 inch | 5000                | Keystone          |
| 4     | TP2, TP4, TP6, TP8 | 5001        | Test Point, Black, Thru Hole Color Keyed                | 0.100 x 0.100 inch | 5001                | Keystone          |
| 1     | U1*                | TPS51116RGE | IC, Synchronous Controllor w/ Termination LDO, QFN      | QFN-24             | TPS51116RGE         | Texas Instruments |
| 1     | --                 |             | PCB, 1.7 In x 1.6 In x 0.063 In                         |                    | PMP2141             | Any               |

- Notes:
1. These assemblies are ESD sensitive, ESD precautions shall be observed.
  2. These assemblies must be clean and free from flux and all contaminants.  
Use of no clean flux is not acceptable.
  3. These assemblies must comply with workmanship standards IPC-A-610 Class 2.
  4. Ref designators marked with an asterisk ("\*\*") cannot be substituted.  
All other components can be substituted with equivalent MFG's components.

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