

Filename: PMP2719REVA - BUCK 15V\_bom.xls

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## PMP2719REVA - BUCK 15V BOM

| COUNT | RefDes | Value     | Description                                            | Size               | Part Number       | Mfr       |
|-------|--------|-----------|--------------------------------------------------------|--------------------|-------------------|-----------|
| 2     | C1     | 4.7uF     | Capacitor, Ceramic, 4.7uF, 50V, X7R                    | 1210               | GRM32ER71H475KA88 | muRata    |
| 1     | C2     | 100uF     | Capacitor, Aluminum Electrolytic, 35V                  | 0.328 x 0.390 inch | EEEFK1V101P       | Panasonic |
|       | C3     | 4.7uF     | Capacitor, Ceramic, 4.7uF, 50V, X7R                    | 1210               | GRM32ER71H475KA88 | muRata    |
| 1     | C5     | 100pF     | Capacitor, Ceramic, 100-pF, 50-V, X7R, 15%             | 0603               | Std               | TDK       |
| 1     | C6     | 2.2nF     | Capacitor, Ceramic, 4700-pF, 50-V, X7R, 15%            | 0603               | Std               | TDK       |
| 1     | C7     | 22pF      | Capacitor, Ceramic, 33-pF, 50-V, X7R, 15%              | 0603               | Std               | TDK       |
| 1     | C8     | 0.1uF     | Capacitor, Ceramic, 0.1-uF, 50-V, X7R, 15%             | 0603               | Std               | TDK       |
| 2     | C11    | 22uF      | Capacitor, Ceramic, 22-uF, 25-V, X5R                   | 1210               | GRM32ER61E226KE15 | Murata    |
|       | C12    | 22uF      | Capacitor, Ceramic, 22-uF, 25-V, X5R                   | 1210               | GRM32ER61E226KE15 | Murata    |
| 2     | C13    | 470pF     | Capacitor, Ceramic, 470-pF, 50-V, X7R, 15%             | 0603               | Std               | TDK       |
| 1     | C14    | 100nF     | Capacitor, Ceramic, 0.01-uF, 50-V, X7R, 15%            | 0603               | Std               | TDK       |
|       | C15    | 470pF     | Capacitor, Ceramic, 470-pF, 50-V, X7R, 15%             | 0603               | Std               | TDK       |
| 1     | D1     | MBRS340T3 | Diode, Schottky,40V, 5A                                | SMC                | MBRS340T3         | OnSemi    |
| 2     | J1     | ED1514    | Terminal Block, 2-pin, 6-A, 3.5mm                      | 0.27 x 0.25        | ED1514            | OST       |
|       | J2     | ED1514    | Terminal Block, 2-pin, 6-A, 3.5mm                      | 0.27 x 0.25        | ED1514            | OST       |
| 1     | L2     | 56uH      | Inductor, SMT, 2.4A, 83milliohm                        | 0.484 x 0.484 inch | MSS1260-563MLD    | Coilcraft |
| 1     | Q1     | Si7415DN  | MOSFET, Fast Switching, PChan, -60V, 5.7A, 65 milliohm | PWRPAK 1212        | Si7415DN          | Vishay    |
| 1     | R1     | 68.1k     | Resistor, Chip, 127K-Ohms, 1/16-W, 1%                  | 0603               | Std               | Std       |
| 1     | R2     | 0.027     | Resistor, Chip, 1/8W, 1%                               | 1206               | CRCW1206-xxxx-F   | Vishay    |
| 1     | R3     | 1.0K      | Resistor, Chip, 2.2-Ohms, 1/16-W, 1%                   | 0603               | Std               | Std       |
| 1     | R4     | 0         | Resistor, Chip, 0-Ohms, 1/16-W, 1%                     | 0603               | Std               | Std       |
| 1     | R5     | 46.4k     | Resistor, Chip, 100K-Ohms, 1/16-W, 1%                  | 0603               | Std               | Std       |
| 1     | R6     | 221       | Resistor, Chip, 221-Ohms, 1/16-W, 1%                   | 0603               | Std               | Std       |
| 1     | R7     | 100K      | Resistor, Chip, 100K-Ohms, 1/16-W, 1%                  | 0603               | Std               | Std       |
| 1     | R8     | 49.9      | Resistor, Chip, 49.9-Ohms, 1/16-W, 1%                  | 0603               | Std               | Std       |
| 1     | R9     | 4.87K     | Resistor, Chip, 4.99K-Ohms, 1/16-W, 1%                 | 0603               | Std               | Std       |
| 6     | TP1    |           | Test Point, Red, 1mm                                   | 0.038              | 240-345           | Farnell   |
| 3     | TP2    |           | Test Point, Black, 1mm                                 | 0.038              | 240-333           | Farnell   |
|       | TP3    |           | Test Point, Red, 1mm                                   | 0.038              | 240-345           | Farnell   |
|       | TP4    |           | Test Point, Red, 1mm                                   | 0.038              | 240-345           | Farnell   |

|   |     |           |                                   |       |           |         |
|---|-----|-----------|-----------------------------------|-------|-----------|---------|
|   | TP5 |           | Test Point, Red, 1mm              | 0.038 | 240-345   | Farnell |
|   | TP6 |           | Test Point, Black, 1mm            | 0.038 | 240-333   | Farnell |
|   | TP7 |           | Test Point, Black, 1mm            | 0.038 | 240-333   | Farnell |
|   | TP8 |           | Test Point, Red, 1mm              | 0.038 | 240-345   | Farnell |
|   | TP9 |           | Test Point, Red, 1mm              | 0.038 | 240-345   | Farnell |
| 1 | U1  | TPS40200D | IC, Low Cost Sync Buck Controller | SO-8  | TPS40200D | TI      |

- 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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