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|------------------------------------|-----------------------|--------|--|---------------------------|--------------------|---------------------|
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| Synchronous Boost Converter | | | | | | |
| Designator | Quantity | Value | Description | PackageReference | PartNumber | Manufacturer |
| C11 | 1 | 10pF | CAP, CERM, 10pF, 50V, +/-5%, C0G/NP0, 0603 | 603 | C1608C0G1H100D | TDK |
| C12 | 1 | 220pF | CAP, CERM, 220pF, 50V, +/-5%, C0G/NP0, 0603 | 603 | C1608C0G1H221J | TDK |
| C13 | 1 | 1200pF | CAP, CERM, 1200pF, 25V, +/-10%, X7R, 0603 | 603 | GRM188R71E122KA01D | MuRata |
| C1, C7 | 2 | 4700pF | CAP, CERM, 4700pF, 25V, +/-10%, X7R, 0603 | 603 | GRM188R71E472KA01D | MuRata |
| C8, C9, C10 | 3 | 0.47uF | CAP, CERM, 0.47uF, 16V, +/-10%, X7R, 0603 | 603 | GRM188R71C474KA88D | MuRata |
| C6 | 1 | 10uF | CAP, CERM, 10uF, 10V, +/-10%, X5R, 0805 | 805 | GRM21BR61A106KE19L | MuRata |
| C3, C5 | 2 | 47uF | CAP, CERM, 47uF, 10V, +/-10%, X5R, 1210 | 1210 | GRM32ER61A476KE20L | MuRata |
| C2, C4 | 2 | 330uF | CAP, TA, 330uF, 6.3V, +/-20%, 0.025 ohm, SMD | 7.3x2.8x4.3mm | 6TPE330ML | Sanyo |
| D1 | 0 | DNP | Diode, Schottky, 35V, 8A, PowerDI5 | PowerDI5 | PDS835L-13 | Diodes Inc. |
| J1, J2 | 2 | | Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH | 7.0x8.2x6.5mm | ED555/2DS | On-Shore Technology |
| L1 | 1 | 1uH | Inductor, Shielded, Composite, 1uH, 21.5A, 0.01 ohm, SMD | IND_6.4x3.1x6.6 | XAL6030-102MEB | Coilcraft |
| Q1 | 1 | | MOSFET, P-CH, -20V, -60A, SON 3.3x3.3mm | SON 3.3x3.3mm | CSD25401Q3 | Texas Instruments |
| Q2 | 1 | | MOSFET, N-CH, 25V, 60A, SON 3.3x3.3mm | SON 3.3x3.3mm | CSD16340Q3 | Texas Instruments |
| R5, R6, R7, R8, R12 | 5 | 0 | RES, 0 ohm, 5%, 0.1W, 0603 | 603 | ERJ-3GEY0R00V | Panasonic |
| R1, R3 | 2 | 4.7 | RES, 4.7 ohm, 5%, 0.1W, 0603 | 603 | CRCW06034R70JNEA | Vishay-Dale |
| R2 | 1 | 1.00k | RES, 1.00k ohm, 1%, 0.1W, 0603 | 603 | CRCW06031K00FKEA | Vishay-Dale |
| R9 | 1 | 10.0k | RES, 10.0k ohm, 1%, 0.1W, 0603 | 603 | CRCW060310K0FKEA | Vishay-Dale |
| R13 | 1 | 19.1k | RES, 19.1k ohm, 1%, 0.1W, 0603 | 603 | CRCW060319K1FKEA | Vishay-Dale |
| R10 | 1 | 30.1k | RES, 30.1k ohm, 1%, 0.1W, 0603 | 603 | CRCW060330K1FKEA | Vishay-Dale |
| R4 | 1 | 63.4k | RES, 63.4k ohm, 1%, 0.1W, 0603 | 603 | CRCW060363K4FKEA | Vishay-Dale |
| R11 | 1 | 100k | RES, 100k ohm, 1%, 0.1W, 0603 | 603 | CRCW0603100KFKEA | Vishay-Dale |
| TP1, TP2, TP3, TP7, TP8 | 5 | | Test Point, Miniature, Red, TH | Red Miniature Testpoint | 5000 | Keystone |
| TP4, TP5, TP6 | 3 | | Test Point, Miniature, Black, TH | Black Miniature Testpoint | 5001 | Keystone |
| U1 | 1 | | MULTI-TOPOLOGY HIGH FREQUENCY PWM CONTROLLER, PW0016A | PW0016A | TPS43000PW | Texas Instruments |
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