

Bill of Materials

MCP1661 Flyback 2

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 Board Number: 04-10321
 Part Number: ARD00598
 Revision: 1
 Engineer: Bogdan Anton
 Drawn By: Bogdan Anton



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| Quantity | Designator | Description_ | Manufacturer 1 | Manufacturer Part Number 1 | Supplier 1 | Supplier Part Number 1 |
|----------|--------------------|--|--------------------------|----------------------------|------------------|------------------------|
| 1 | C1 | CAP CER 1uF 16V 10% X7R SMD 0805 | Samsung | CL21B105KONE | Samsung | CL21B105KONE |
| 2 | C2, C5 | CAP CER 10uF 16V 10% X7R SMD 1210 | Samsung Electro-Mechar | CL32B106KOULNNE | Digi-Key | 1276-3324-2-ND |
| 1 | C3 | CAP CER 1uF 35V 10% X7R SMD 0805 | TDK Corporation | CGA4J3X7R1V105K125AB | Digi-Key | 445-6962-1-ND |
| 1 | C4 | CAP CER 1uF 25V 10% X7R SMD 0805 | AVX | 08053C105K4Z2A | Digi-Key | 478-6357-2-ND |
| 2 | D1, D2 | DIO SCTKY MBR0530T1G 430mV 500mA 30V SOD-123 | ON Semiconductor | MBR0530T1 | ON Semiconductor | MBR0530T1 |
| 5 | J2, J3, J4, J7, J8 | CON TP LOOP Tin SMD | Harwin Inc | S1751-46R | Digi-Key | 952-1478-1-ND |
| 1 | R1 | RES TKF 100k 1% 1/8W SMD 0805 | ROHM | MCR10EZPF1003 | Digi-Key | RHM100KCRCT-ND |
| 1 | R2 | RES TKF 5.6k 1% 1/8W SMD 0805 | Vishay Dale | CRCW08055K60FKEA | Digi-Key | 541-5.60KCCT-ND |
| 1 | R3 | RES TKF 10k 1% 1/8W SMD 0805 | Panasonic | ERJ-6ENF1002V | Digi-Key | P10.0KCTR-ND |
| 1 | TR1 | TRANS SMPS Flyback 1:1,3:1 10V - 30V SMD | Würth Electronics Midcom | 750310799 | Digi-Key | 732-2223-1-ND |

Microchip Parts listed below

| | | | | | | |
|---|----|--|----------------------|--------------------|----------------------|-------------------------|
| 1 | U1 | MCHP ANALOG LDO 5V MCP1755ST-5002E/DB SOT-223-3 | Microchip Technology | MCP1755ST-5002E/DB | Digi-Key | MCP1755ST-5002E/DBCT-ND |
| 1 | U2 | MCHP ANALOG SWITCHER High Voltage Boost MCP1661T-E/OT SOT-23-5 | Microchip Technology | MCP1661T-E/OT | Microchip Technology | MCP1661T-E/OT |
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Mechanical Parts to be added in the package

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|---|--------|--|--|--|--|--|
| 1 | LABEL1 | LABEL, ASSY W/REV LEVEL (SMALL MODULES) PER MTS-0002 | | | | |
|---|--------|--|--|--|--|--|

PCB

| | | | | | | |
|---|------|-----------------------|--|-------------|--|--|
| 1 | PCB1 | Printed Circuit Board | | 04-10321-R1 | | |
|---|------|-----------------------|--|-------------|--|--|

Do Not Populate Parts listed below

| | | | | | | |
|---|------------|---|--------|----------------|--------|----------------|
| 3 | J1, J5, J6 | CON HDR-2.54 Male 1x1 Gold 5.97MH TH VERT | Samtec | TSW-101-07-L-S | Samtec | TSW-101-07-L-S |
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| Approved | Notes |
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