

Bill of Materials

MCP19035 High Voltage Buck Converter Reference Design

Project: MCP19035 - 5V_5A.PrjPcb

Source Data FC:\ALTIUM_WORK\PROJECTS\MCP19035 new board\MCP19035 - 5V_3A.PrjPcb

Engineer: SCH Engineer Name

Drawn By: DrawnBy



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Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
2	C1, C9	CAP CER 10UF 35V 20% X7R 1210	Taiyo Yuden	GMK325AB7106MM-T	Digi-Key	587-2779-2-ND
1	C2	CAP CER 5600PF 25V 5% NP0 0603	TDK Corporation	C1608C0G1E562J080AA	Digi-key	445-2666-2-ND
1	C3	CAP CER 0.33UF 16V 10% X7R 0603	Murata Electronics North America	GRM188R71C334KA01D	Digi-Key	490-3294-1-ND
2	C4, C10	CAP CER 47UF 10V 20% X7R 1210	Taiyo Yuden	LMK325B7476MM-TR	Digi-Key	587-2783-2-ND
1	C5	CAP CER 47PF 50V 5% NP0 0603	AVX	C1608C0G1H470J080AA	Digi-Key	445-1277-2-ND
1	C6	CAP CER 1UF 35V 10% X7R 0805	TDK Corporation	CGA4J3X7R1V105K	Digi-Key	445-6962-1-ND
1	C7	CAP CER 4.7UF 35V 10% X7R 0805	TDK	C2012X7R1V475K125AC	Digi-Key	445-7555-2-ND
1	C8	CAP CER 680PF 50V 5% NP0 0603	TDK Corporation	C1608C0G1H681J080AA	Digi-Key	445-1291-2-ND
2	J1, J2	TERMINAL BLOCK 5.08MM VERT 2POS	On Shore Technology Inc	ED120/2DS	Digi-Key	ED1609-ND
1	J3	CONN HEADER VERT .100" GOLD	TE Connectivity	5-146868-1	Digi-Key	A105161CT-ND
1	L1	INDUCTOR POWER 4.7UH 8.5A SMD	Würth Electronics Inc	74477004	Digi-Key	732-1221-2-ND
1	Q1	Dual N-Channel 30-V (D-S) MOSFET with Schottky Diode	Vishay	SI4816BDY-T1-E3	Digi-Key	SI4816BDY-T1-E3TR-ND
1	Q3	MOSFET N-CH 60V 115MA SOT-23-3	Diodes Inc	2N7002-7-F	Digi-Key	2N7002-FDICT-ND
3	R1, R7, R8	RES 5.1k Ohm 1/10W 1% 0603 SMD	Panasonic - ECG	ERJ-3EKF5101V	Digi-Key	P5.10KHCT-ND
2	R2, R6	RES 100k Ohm 1/10W 1% 0603 SMD	Panasonic - ECG	ERJ-3EKF1003V	Digi-Key	P100KHCT-ND
1	R3	RES 0 Ohm 1/10W 0603 SMD	Panasonic - ECG	ERJ-3GEY0R00V	Digi-Key	P0.0GCT-ND
1	R4	RES 3.9K OHM 1/10W 5% 0603 SMD	Panasonic - ECG	ERJ-3GEYJ392V	Digi-key	P3.9KGTR-ND
1	R5	RESISTOR 3.3 OHM 1/10W 1% 0603	Panasonic - ECG	ERJ-3RQF3R3V	Digi-Key	P3.3AJCT-ND
1	R9	RES 49.9 OHM .25W 1% 0603 SMD	Vishay/Dale	CRCW060349R9FKEAHP	Digi-Key	541-49.9STR-ND
1	R12	RES 2.70K OHM 1/10W 1% 0603 SMD	Panasonic - ECG	ERJ-3EKF2701V	Digi-Key	P2.70KHCT-ND
1	R10	RES 20k Ohm 1/10W 1% 0603 SMD	Panasonic - ECG	ERJ-3EKF2002V	Digi-Key	P20.0KHCT-ND
1	R13	RES 750 OHM 1/10W 1% 0603 SMD	Vishay/Dale	CRCW0603750RFKEA	Digi-Key	541-750HCT-ND
12	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12	PC TEST POINT COMPACT SMT	Keystone Electronics	5016	Digi-Key	5016KCT-ND

Microchip Consigned Parts listed below

1	U1	High Speed Synchronous Buck Controller	Microchip	MCP19035-BAAAE/MF		

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Mechanical Parts to be added in the package						
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Do Not Populate Parts listed below						
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Approved	Notes

