

# Bill of Materials

## MCP19035 600 kHz Synchronous Buck Controller Evaluation Board

Project: 103-00445 MCP19035 Eval Bd 600kHz Board.PrjPcb

Source Data: C:\ALTIUM\_WORK\projects\103-00445 MCP19035 Eval Bd 600kHz Board\103-00445 MCP19035 Eval Bd 600kHz Board.PrjPcb

Engineer: Sergiu Oprea

Drawn By: Sergiu Oprea



**MICROCHIP**

Creation Date: 1:54:36 PM

Print Date: 12:39:53 PM

Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
2	C1, C2	CAP CER 10UF 25V 10% X7R 1210	TDK Corporation	C3225X7R1E106K	Digi-Key	445-3942-1-ND
1	C4	CAP CER 3900PF 50V 5% NP0 0603	TDK Corporation	C1608C0G1H392J	Digi-Key	445-7399-1-ND
1	C5	CAP CER 0.33UF 16V 10% X7R 0603	Murata Electronics North America	GRM188R71C334KA01D	Digi-Key	490-3294-1-ND
2	C6, C7	CAP CER 100UF 6.3V 20% X5R 1210	TDK Corporation	C3225X5R0J107M	Digi-Key	445-1437-1-ND
2	C9, C11	CAP CER 1UF 35V 10% X7R 0805	TDK Corporation	CGA4J3X7R1V105K	Digi-Key	445-6962-1-ND
1	C10	CAP CER 47pF 100V 5% COG 0603	AVX	06031A470JAT2A	Digi-Key	478-1144-1-ND
1	C12	CAP CER 4.7UF 25V X5R 0805	TDK	C2012X5R1E475K	Digi-Key	445-4116-1-ND
1	C13	CAP CER 560PF 50V 5% NP0 0603	Kemet	C0603C561J5GACTU	Digi-Key	399-3287-1-ND
1	D1	DIODE SCHOTTKY 0.5A 30V SOD323	Diodes Inc	B0530WS-7-F	Digi-Key	B0530WS-FDICT-ND
2	J1, J2	TERMINAL BLOCK 5.08MM VERT 2POS	On Shore Technology Inc	ED120/2DS	Digi-Key	ED1609-ND
1	L1	INDUCTOR POWER 1.0UH 17A SMD	Würth Electronics Inc	7443340100	Digi-Key	732-2162-1-ND
1	Q3	MOSFET N-CH 60V 115MA SOT-23-3	Diodes Inc	2N7002-7-F	Digi-Key	2N7002-FDICT-ND
3	R1, R8, R9	RES 5.1k Ohm 1/10W 1% 0603 SMD	Panasonic - ECG	ERJ-3EKF5101V	Digi-Key	P5.10KHCT-ND
2	R2, R7	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 100 Ohm 1/10W 1% 0603 SMD	Panasonic - ECG	ERJ-3EKF1000V	Digi-Key	P100HCT-NDD
1	R5	RES 7.50K OHM 1/10W 1% 0603 SMD	Panasonic - ECG	ERJ-3EKF7501V	Digi-Key	P7.50KHCT-ND
1	R6	RESISTOR 3.3 OHM 1/10W 1% 0603	Panasonic - ECG	ERJ-3RQF3R3V	Digi-Key	P3.3AJCT-ND
2	R12, R14	RES 10k Ohm 1/10W 1% 0603 SMD	Panasonic - ECG	ERJ-3EKF1002V	Digi-Key	P10.0KHCT-ND
1	R10	RES 49.9 OHM .25W 1% 0603 SMD	Vishay/Dale	CRCW060349R9FKEAHP	Digi-Key	541-49.9STR-ND
1	R11	RES 20k Ohm 1/10W 5% 0603 SMD	Panasonic - ECG	ERJ-3GEYJ203V	Digi-Key	P20KGCT-ND
1	R13	RES 750 OHM 1/10W 1% 0603 SMD	Vishay Dale	CRCW0603750RFKEA	Digi-Key	541-750HCT-ND
19	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19	TEST POINT PC MULTI PURPOSE BLK	Keystone Electronics	5011	Digi-Key	5011K-ND
4	BUMP	BUMPON HEMISPHERE .44X.20 WHITE	3M	SJ-5003 (WHITE)	Digi-Key	SJ5003-9-ND

Microchip Consigned Parts listed below						
1	U1	High speed synchronous buck controller	Microchip	MCP19035-BAABE/MF		
1	Q1	High Performance MOSFET Transistor	Microchip	MCP87050T-U/MF		
1	Q2	High Performance MOSFET Transistor	Microchip	MCP87022T-U/MF		

Mechanical Parts to be added in the package						

Do Not Populate Parts listed below						

Approved	Notes