

Bill of Materials

MIC23656 6A synch buck regulator eval bd

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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 0603	Yageo	CC0603KRX7R7BB105	Digi-Key	311-1446-1-ND
2	C2, C11	CAP CER 4.7uF 10V 10% X7R SMD 0805	TDK Corporation	C2012X7R1A475K125AC	Digi-Key	445-7591-1-ND
1	C3	CAP CER 0.1uF 16V 10% X7R SMD 0402	Murata	GRM155R71C104KA88D	Digi-Key	490-3261-2-ND
2	C4, C5	CAP CER 47uF 10V 20% X7R SMD 1210	Taiyo Yuden	LMK325B7476MM-TR	Digi-Key	587-2783-2-ND
1	C6	CAP CER 0.1uF 16V 10% X7R SMD 0603	AVX	0603YC104KAT2A	Digi-Key	478-1239-1-ND
1	C8	CAP ALU 470uF 16V 20% RAD P3.5D8H11.5	Nichicon	UVZ1C471MPD	Digi-Key	493-1286-ND
2	C9, C10	CAP CER 22uF 10V 20% X7S SMD 0805	TDK Corporation	C2012X7S1A226M125AC	Digi-Key	445-14560-1-ND
4	J1, J3, J12, J13	CON HDR-2.54 Male 1x2 Gold 5.84MH TH VERT	FCI	77311-118-02LF	Digi-Key	609-4434-ND
1	J2	CON HDR-2.54 Male 1x4 Tin 5.84MH TH VERT	FCI	68002-404HLF	Digi-Key	609-3305-ND
4	J4, J5, J15, J19	CON TP PIN Tin TH	Harwin	H2121-01	Digi-Key	952-1440-ND
2	J6, J8	CON HDR-2.54 Male 1x3 Tin 5.84MH TH VERT	Samtec	TSW-103-07-T-S	Digi-Key	SAM1035-03-ND
1	J7	CON USB2.0 Micro-B Female SMD R/A	FCI	10118193-0001LF	Digi-Key	609-4616-1-ND
2	J14, J21	MISC, TEST POINT MULTI PURPOSE MINI RED	Keystone	5000	Digi-Key	36-5000-ND
3	J17, J18, J20	MISC, TEST POINT MULTI PURPOSE MINI BLACK	Keystone	5001	Digi-Key	36-5001-ND
1	L1	INDUCTOR 470nH 12.3A 20% SMD L4.0W4.0H3.1	COILCRAFT.COM	XEL4030-471	COILCRAFT.COM	XEL4030-471
1	R1	RES TKF 49.9R 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF49R9V	Digi-Key	P49.9HCT-ND
1	R3	RES TKF 1M 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1004V	Digi-Key	P1.00MHCT-ND
4	R4, R5, R8, R11	RES TKF 0R 1/10W SMD 0603	Panasonic	ERJ-3GSY0R00V	Digi-Key	P0.0GTR-ND
2	R6, R9	RES TKF 2k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF2001V	Digi-Key	P2.00KHTR-ND
1	R7	RES TKF 100k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1003V	Digi-Key	P100KHTR-ND
1	R12	RES TKF 10R 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF10R0V	Digi-Key	P10.0HTR-ND
Microchip Parts listed below						
1	U1	MCHP ANALOG SWITCHER Buck 2.4V to 5.5V MIC23656-HAYFT FTQFN-16	Microchip	MIC23656-HAYFT	Microchip Technology	MIC23656-HAYFT
1	U2	MCHP INTERFACE USB I2C UART MCP2221A-I/ST TSSOP-14	Microchip Technology	MCP2221A-I/ST	Microchip Technology	MCP2221A-I/ST
Mechanical Parts to be added in the package						
2	JP1, JP2	MECH HW JUMPER 2.54mm 1x2	3M	969102-0000-DA	Digi-Key	3M9580-ND
4	PAD1, PAD2, PAD3, PAD4	MECH HW RUBBER PAD CYLINDRICAL D7.9 H5.3 BLACK	3M	SJ61A11	Digi-Key	SJ5747-0-ND
PCB						
1	PCB1	Printed Circuit Board		04-10746-R1		
Do Not Populate Parts listed below						
0	J9	CON HDR-2.54 Male 1x2 Gold 5.84MH TH VERT	FCI	77311-118-02LF	Digi-Key	609-4434-ND
0	R10	RES TKF 0R 1/10W SMD 0603	Panasonic	ERJ-3GSY0R00V	Digi-Key	P0.0GTR-ND