

Bill of Materials

MCP19215 Evaluation Board

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Revision: 1.1

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Quantity	Designator	Description	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
5	C1, C15, C27, C28, C29	CAP CER 1uF 50V 10% X7R SMD 0805	Murata Electronics North America	GRM21BR71H105KA12L	Digi-Key	490-4736-1-ND
3	C2, C24, C26	CAP CER 0.1uF 50V 10% X7R SMD 0603	Murata	GRM188R71H104KA93D	Digi-Key	490-1519-1-ND
4	C3, C4, C13, C14	CAP CER 82pF 50V 5% NPO SMD 0603	Murata Electronics North America	GRM1885C1H820JA01D	Digi-Key	490-1425-1-ND
4	C5, C6, C17, C18	CAP CER 4700pF 50V 10% X7R SMD 0603	KEMET	C0603C472K5RACTU	Digi-Key	399-1087-1-ND
9	C7, C8, C10, C11, C12, C19, C20, C22, C23	CAP CER 10uF 50V 20% X7R SMD 1210	TDK Corporation	C3225X7R1H106M250AC	Digi-Key	445-14933-1-ND
1	C9	CAP CER 4.7uF 25V 10% X7R SMD 0805	TDK Corporation	C2012X7R1E475K125AB	Digi-Key	445-5972-1-ND
2	C16, C25	CAP CER 27pF 50V 5% NPO SMD 0603	KEMET	C0603C270J5GACTU	Digi-Key	399-1054-1-ND
1	C21	CAP CER 2.2uF 100V 10% X7R SMD 1210	KEMET	C1210C225K1RACTU	Digi-Key	399-5511-1-ND
2	D1, D2	DIO SCKY SS24S-E3/61T 550mV 2A 40V SMD DO-214AC	Vishay Semiconductor Diodes Division	SS24S-E3/61T	Digi-Key	SS24S-E3/61TGICT-ND
3	J1, J2, J3	CON TERMINAL 2.54mm 1x2 Female 20-30AWG 6A TH R/A	Phoenix Contact	1725656	Digi-Key	277-1273-ND
1	J4	CON USB2.0 MINI-B FEMALE SMD R/A	Hirose	UX60-MB-5ST	Digi-Key	H2959CT-ND
1	J5	CON HDR-2.54 Male 1x6 Gold 5.84MH TH VERT	FCI	68001-106HLF	Digi-Key	609-3272-ND
1	L1	INDUCTOR 10uH 4A 20% SMD L12.3W12.3H6	Coilcraft	MSS1260-103MLD	Farnell	2288425
1	L2	INDUCTOR 4.7uH 3.16A 20% SMD L12.3W12.3H6	Coilcraft	MSD1260-472MLB	Farnell	2288027
1	LD1	DIO LED GREEN 2V 30mA 35mcd Clear SMD 0603	Lite-On Inc	LTST-C191KGKT	Digi-Key	160-1446-1-ND
2	Q1, Q2	TRANS FET N-CH SI4850EY-T1-E3 60V 6A 1.7W SOIC-8	Vishay Siliconix	SI4850EY-T1-E3	Digi-Key	SI4850EY-T1-E3CT-ND
4	R1, R2, R5, R6	RES TKF 220R 5% 1/10W SMD 0603	ROHM	MCR03EZPJ221	Digi-Key	RHM220GCT-ND
2	R3, R11	RES TKF 150k 1% 1/8W SMD 0603	KOA	SG73S1JTTD1503F	Farnell	1627808
1	R4	RES TKF 3.3R 1% 1/10W SMD 0603	Panasonic	ERJ-3RQF3R3V	Digi-Key	P3.3AJCT-ND
4	R7, R12, R13, R17	RES TKF 100R 5% 1/10W SMD 0603	Vishay	CRCW0603100RJNEA	Digi-Key	541-100GCT-ND
2	R8, R14	RES TKF 13k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1302V	Digi-Key	P13.0KHCT-ND
4	R9, R10, R15, R16	RES TKF 0.1R 1% 1/2W SMD 1206	Bourns	CRM1206-FX-R100ELF	Farnell	1865244
1	R18	RES TKF 820R 5% 1/10W SMD 0603	Panasonic	ERJ-3GEYJ821V	Digi-Key	P820GTR-ND
2	R19, R20	RES TKF 4.7k 5% 1/10W SMD 0603	Panasonic	ERJ-3GEYJ472V	Digi-Key	P4.7KGCT-ND
3	TP1, TP4, TP7	MISC, TEST POINT MULTI PURPOSE MINI RED	Keystone	5000	Digi-Key	36-5000-ND
3	TP2, TP5, TP8	MISC, TEST POINT MULTI PURPOSE MINI BLACK	Keystone	5001	Digi-Key	36-5001-ND

3	TP27, TP28, TP29	CON TP LOOP Tin SMD	Harwin Inc	S1751-46R	Digi-Key	952-1478-1-ND
Microchip Parts listed below						
1	U1	MCHP ANALOG DUAL PWM CONTROLLER 2MHz MCP19215-E/S8 QFN-32	Microchip Technology	MCP19215-E/S8	Microchip	MCP19215-E/S8
1	U2	MCHP INTERFACE USB I2C UART MCP2221 I/SL SOIC-14	Microchip Technology	MCP2221-I/SL	Digi-Key	MCP2221-I/SL-ND
Mechanical Parts to be added in the package						
4	PAD1, PAD2, PAD3, PAD4	MECH HW RUBBER PAD CYLINDRICAL D7.9 H5.3 BLACK	3M	SJ61A11	Digi-Key	SJ5747-0-ND