

Bill of Materials

MIC23158/9 Evaluation Board

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 Part Number: ADM00829
 Revision: 1
 Engineer: Catalin Bibirica
 Drawn By: Catalin Bibirica



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Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
4	C1, C2, C7, C8	CAP CER 4.7uF 16V 10% X5R SMD 0603	TDK Corporation	C1608X5R1C475K080A0	Digi-Key	445-7478-1-ND
2	C3, C4	CAP CER 1uF 16V 10% X5R SMD 0603	AVX	0603YD105KAT2A	Digi-Key	478-1249-1-ND
2	C9, C10	CAP CER 470pF 100V 5% COG SMD 0603	TDK Corporation	CGA3E2C0G2A471J080	Digi-Key	445-5732-2-ND
4	J1, J2, J3, J4	CON HDR-2.54 Male 1x2 Gold 5.84MH TH VERT	FCI	77311-118-02LF	Digi-Key	609-4434-ND
2	L1, L2	INDUCTOR 1uH 2.3A 20% SMD 2520	TDK Corporation	MLP2520W1R0MT0S1	Digi-Key	MLP2520W1R0MT0S1-N
2	R1, R2	RES TKF 0R 1/10W SMD 0603	Panasonic	ERJ-3GSY0R00V	Digi-Key	P0.0GTR-ND
1	R4	RES TF 301k 0.5% 1/16W SMD 0603	Susumu	RR0816P-3013-D-47D	Digi-Key	RR08P301KDCT-ND
1	R5	RES TKF 316k 1% 1/10W SMD 0603	Panasonic Electronic Cor	ERJ-3EKF3163V	Digi-Key	P316KHTR-ND
1	R6	RES TKF 158k 1% 1/10W SMD 0603	Yageo	RC0603FR-07158KL	Digi-Key	311-158KHRCT-ND
1	R7	RES TKF 221k 1% 1/10W SMD 0603	Panasonic Electronic Cor	ERJ-3EKF2213V	Digi-Key	P221KHCT-ND
2	R8, R9	RES TF 100k 1% 1/8W SMD 0603	Vishay	MCT06030C1003FP500	Digi-Key	MCT0603-100K-CFTR-N
2	R10, R11	RES TF 10k 1% 1/8W SMD 0603	Vishay Beyschlag	MCT06030C1002FP500	Digi-Key	MCT0603-10.0K-CFTR-N
6	TP1, TP2, TP3, TP4, TP5, TP6	CON TP PIN Tin TH	Harwin	H2121-01	Digi-Key	952-1440-ND

Microchip Parts listed below

1	U1	MCHP ANALOG SWITCHER Buck 1V MIC23159YML-TR VQFN-20	Microchip	MIC23159YML-TR	Microchip	MIC23159YML-TR

Mechanical Parts to be added in the package

1	LABEL	LABEL, ASSY W/REV LEVEL (SMALL MODULES) PER MTS-002			Dev Tools	
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4	PAD1, PAD2, PAD3, PAD4	MECH HW RUBBER PAD Hemisphere D6.4 H1.9 CLEAR	3M	SJ5382	Digi-Key	SJ5382-ND

PCB

1	PCB1	Printed Circuit Board		04-10649-R1		
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Do Not Populate Parts listed below

2	C11, C12	CAP CER 10000pF 50V 20% X7R SMD 0603	AVX Corporation	06035C103KAT2A	Digi-Key	478-1227-1-ND
1	R3	RES TKF 0R 1% 1/4W SMD 1206	TT Electronics	WCR1206-R005JI	Farnell	1100137

Approved	Notes	Description