

Bill of Materials

MIC4606-1YML Evaluation Board

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 Part Number: MIC4606-1
 Revision: 2
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Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
1	C1	CAP CER 1uF 25V 20% X5R SMD 0603	Panasonic	ECJ-1V41E105M	Digi-Key	PCC2354CT-ND
3	C2, C3, C9	CAP CER 10uF 25V 20% X5R SMD 0805	TDK	C2012X5R1E106M085AC	Digi-Key	445-14388-1-ND
1	C4	CAP ALU 100uF 100V 20% RAD P5.0D10L22	TDK EPCOS	B41851A9107M000	Digi-Key	495-6025-ND
4	C5, C6, C7, C8	CAP CER 4.7uF 100V 10% X7S SMD 1210 AEC-Q200	Taiyo Yuden	HMK325C7475KMHPPE	Digi-Key	587-5037-1-ND
4	C10, C11, C12, C13	CAP CER 4700pF 50V 10% X7R SMD 0603	KEMET	C0603C472K5RACTU	Digi-Key	399-1087-1-ND
4	D1, D2, D5, D6	DIO RECT 1N4148 1.25V 150mA 100V SOD-123	MCC	1N4148W-TP	Digi-Key	1N4148WTPMST-ND
2	D3, D4	DIDIO RECT BAS316 1.25V 250mA 100V SOD-323	NXP Semiconductors	BAS316115	Digi-Key	568-5003-1-ND
1	J12	CON HDR-2.54 Male 2x4 Gold 5.84MH TH VERT	Würth Electronics	61300821121	Digi-Key	732-5296-ND
2	M1, M2	CON TERMINAL 3.5mm 1x2 Female 24-16AWG 10A TH R/A	Würth Electronics	691214110002	Digi-Key	732-2747-ND
4	Q1, Q2, Q3, Q4	TRANS FET N-CH SIJ482DP-T1-GE3 80V 60A PowerPAK SO-8L	Vishay	SIJ482DP-T1-GE3	Digi-Key	SIJ482DP-T1-GE3CT-ND
1	R1	RES TF 100k 1% 1/8W SMD 0603	Vishay Beyschlag	MCT06030C1003FP500	Digi-Key	MCT0603-100K-CFTR-ND
4	R2, R3, R8, R9	RES TKF 6.8R 1% 1/10W SMD 0603	Yageo	RC0603FR-076R8L	Farnell	9238220
4	R4, R5, R10, R11	RES TKF 18R 1% 1/10W 0603	Yageo	RC0603FR-0718RL	Digi-Key	311-18.0HRCT-ND
2	R6, R7	RES TKF 3.3R 1% 1/10W SMD 0603	Panasonic	ERJ-3RQF3R3V	Digi-Key	P3.3AJCT-ND
4	TP1, TP4, TP14, TP15	CON TP PIN Tin TH	Harwin	H2121-01	Digi-Key	952-1440-ND
12	TP2, TP3, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP16	CON TP LOOP Red TH	Keystone Electronics	5010	Digi-Key	36-5010-ND

Microchip Parts listed below

1	U1	MCHP ANALOG FET DRIVER Full Bridge MIC4606-1YML QFN-16	Microchip Technology	MIC4606-1YML-T5	Microchip Technology	MIC4606-1YML-T5
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Mechanical Parts to be added in the package

4	PAD1, PAD2, PAD3, PAD4	MECH HW RUBBER PAD CYLINDRICAL D7.9 H5.3 BLACK	3M	70006431483	Digi-Key	SJ5747-0-ND
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