

# Bill of Materials

# MIC2253-06YML Evaluation Board

Document Number: 02-10752  
 Board Number: 04-10752  
 Part Number: MIC2253-06  
 Revision: 1  
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 Drawn By: Alexandru Stoica



Creation Date: 2:40:31 PM  
 Print Date: 10:22:39 AM

Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
1	C1	CAP CER 2.2uF 25V 10% X5R SMD 0805	<a href="#">Murata</a>	<a href="#">GRM21BR61E225KA12L</a>	Digi-Key	<a href="#">490-3334-2-ND</a>
1	C2	CAP CER 0.1uF 25V 10% X7R SMD 0805	<a href="#">Murata</a>	<a href="#">GRM21BR71E104KA01L</a>	Digi-Key	<a href="#">490-1673-1-ND</a>
2	C4, C9	CAP CER 0.01uF 100V 10% X7R SMD 0603	<a href="#">TDK Corporation</a>	<a href="#">C1608X7R2A103K080AA</a>	Digi-Key	<a href="#">445-1304-1-ND</a>
1	C5	CAP CER 22uF 10V 20% X5R SMD 0805	<a href="#">Taiyo Yuden</a>	<a href="#">LMK212BJ226MG-T</a>	Digi-Key	<a href="#">587-1958-1-ND</a>
1	C6	CAP TANT 100uF 16V 20% 0.07Ohm SMD E	<a href="#">KEMET</a>	<a href="#">T491X107M016AS</a>	Digi-Key	<a href="#">399-1607-2-ND</a>
1	C7	CAP CER 100pF 50V 5% NP0 SMD 0603	<a href="#">Cal-Chip</a>	<a href="#">GMC10CG101J50NTLF</a>	Cal-Chip	<a href="#">GMC10CG101J50NTLF</a>
1	D1	DIODE SCHOTTKY 40V 2A DO214AC	<a href="#">Vishay Semiconductor</a>	<a href="#">SSA24-E3/61T</a>	Digi-Key	<a href="#">SSA24-E3/61TGICT-ND</a>
4	J1, J4, J6, J8	CON TP PIN Tin TH	<a href="#">Harwin</a>	<a href="#">H2121-01</a>	Digi-Key	<a href="#">952-1440-ND</a>
1	JP2	CON HDR-2.54 Male 1x2 Tin 6.10MH TH VERT	<a href="#">Molex Inc</a>	<a href="#">0022284020</a>	Digi-Key	<a href="#">WM50014-02-ND</a>
1	L1	INDUCTOR 2.2uH 5.5A 20% SMD L4W4H2.1	<a href="#">Coilcraft</a>	<a href="#">XAL4020-222MEC</a>	Farnell	<a href="#">2289054</a>
1	R1	RES TKF 10k 1% 1/10W SMD 0603	<a href="#">Panasonic</a>	<a href="#">ERJ-3EKF1002V</a>	Digi-Key	<a href="#">P10.0KHCT-ND</a>
0	R2	RES TKF 620R 1% 1/10W SMD 0603	<a href="#">Panasonic</a>	<a href="#">ERJ-3EKF6200V</a>	Digi-Key	<a href="#">P620HCT-ND</a>
1	R3	RES TKF 0R 1/10W SMD 0603	<a href="#">Panasonic</a>	<a href="#">ERJ-3GSY0R00V</a>	Digi-Key	<a href="#">P0.0GTR-ND</a>
1	R4	RES TKF 100k 1% 1/10W SMD 0603	<a href="#">Panasonic</a>	<a href="#">ERJ-3EKF1003V</a>	Digi-Key	<a href="#">P100KHTR-ND</a>
1	R5	RES TKF 30.9k 1% 1/10W SMD 0603	<a href="#">Panasonic</a>	<a href="#">ERJ-3EKF3092V</a>	Digi-Key	<a href="#">P30.9KHCT-ND</a>
1	R7	RES TKF 49.9R 1% 1/10W SMD 0603	<a href="#">Panasonic</a>	<a href="#">ERJ-3EKF49R9V</a>	Digi-Key	<a href="#">P49.9HCT-ND</a>
<b>Microchip Parts listed below</b>						
1	U1	MCHP ANALOG SWITCHER Boost 2.5V to 10V 3.5A 1MHz MIC2253 MLF-12	<a href="#">Microchip Technology</a>	<a href="#">MIC2253-06YML-TR</a>	Digi-Key	<a href="#">576-3643-1-ND</a>
<b>Do Not Populate Parts listed below</b>						
1	C3	CAP CER 100pF 50V 5% NP0 SMD 0603	<a href="#">Cal-Chip</a>	<a href="#">GMC10CG101J50NTLF</a>	Cal-Chip	<a href="#">GMC10CG101J50NTLF</a>
0	C8	CAP CER 0.1uF 50V 10% X7R SMD 0805	<a href="#">Cal-Chip</a>	<a href="#">GMC21X7R104K50NTLF</a>	Cal-Chip	<a href="#">GMC21X7R104K50NTLF</a>
0	R6	RES TF 30.1k 0.5% 1/10W SMD 0603	<a href="#">Yageo</a>	<a href="#">RT0603DRD0730K1L</a>	Digi-Key	<a href="#">311-30.1KDCT-ND</a>