

# Bill of Materials

# MCP16301 5V/600mA Low Noise Evaluation Board

Project: 103-00433 MCP16301-Low Noise Eval Bd .PrjPcb

Source Data FC:\ALTIUM\_WORK\projects\103-00433 MCP16301 4L Eval Bd\103-00433 MCP16301-Low Noise Eval Bd .PrjPcb

Engineer: \_\_\_\_\_

Drawn By: \_\_\_\_\_



Creation Date: 4:24:51 PM

Print Date: 1:23:38 PM

Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
1	C1	CAP CER 0.1uF 50V X7R 10% 0603	TDK	C1608X7R1H104K	Digi-Key	445-1314-1-ND
2	C2, C3	CAP CER 10UF 50V X7S 1210	TDK Corporation	C3225X7S1H106M	Digi-Key	445-4537-1-ND
2	C4, C5	CAP CER 10UF 10V 10% X7R 0805	Murata Electronics North	GRM21BR71A106KE51L	Digi-Key	490-3905-1-ND
1	C7	CAPACITOR, NP0, 0603, 100V, 120PF	KEMET	C0603C121J1GACTU	Digi-Key	C0603C121J1GACTU-ND
1	D1	DIODE SWITCH 75V 200MW SOD323	Diodes Inc	1N4148WS-7-F	Digi-Key	1N4148WS-FDICT-ND
1	D2	DIODE SCHOTTKY 40V 1A SMA	ON Semiconductor	MBRA140T3G	Digi-Key	MBRA140T3GOSCT-ND
4	J1, J2, J3, J4	PC TEST POINT TIN SMD	Harwin Inc	S1751-46R	Digi-Key	952-1478-1-ND
1	L1	INDUCTOR 22UH 5A SMD	Coilcraft	XAL6060-223MEB	Coilcraft	XAL6060-223MEB
1	R1	RES 1.0M OHM 1/10W 5% 0603 SMD	Panasonic - ECG	ERJ-3GEYJ105V	Digi-Key	P1.0MGCT-ND
1	R2	RES 52.3K OHM 1/10W 1% 0603 SMD	Panasonic - ECG	ERJ-3EKF5232V	Digi-Key	P52.3KHCT-ND
1	R3	RES 4.7 Ohm 1/10W 1% 0603 SMD	Panasonic - ECG	ERJ-3RQF4R7V	Digi-Key	P4.7AJCT-ND
1	R4	RES 10k Ohm 1/10W 1% 0603 SMD	Panasonic - ECG	ERJ-3EKF1002V	Digi-Key	P10.0KHCT-ND
1	R5	RES 82 OHM 1/10W 5% 0603 SMD	Panasonic - ECG	ERJ-3GEYJ820V	Digi-Key	P82GCT-ND

### Microchip Consigned Parts listed below

1	U1	High Voltage Input Integrated Switch Step-Down Regulator	Microchip	MCP16301T-E/CH		

### Mechanical Parts to be added in the package


**Do Not Populate Parts listed below**

1	C6						

**Approved**   **Notes**

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