

# Bill of Materials

# MCP6N16 Evaluation Board

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 Revision: 1  
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Quantity	Designator	Description_	Manufacturer	Manufacturer Part Number	Supplier	Supplier Part Number
2	C1, C2	CAP CER 10uF 16V 10% X5R SMD 1206	TDK	C3216X5R1C106K	Digi-Key	445-4052-1-ND
5	C3, C4, C16, C18, C21	CAP CER 0.1uF 16V 10% X7R SMD 0603	AVX	0603YC104KAT2A	Digi-Key	478-1239-1-ND
3	C5, C7, C14	CAP CER 0.1uF 25V 10% X7R SMD 0805	Murata	GRM21BR71E104KA01L	Digi-Key	490-1673-1-ND
2	C6, C9	CAP CER 0.01uF 16V 5% SMD 0603	Taiyo Yuden	EMK107SD103JA-T	Digi-Key	587-1093-1-ND
5	C8, C10, C12, C13, C19	CAP CER 0.01uF 50V 10% X7R SMD 0805	Murata	GRM40-X7R103K050BD	Murata	GRM40-X7R103K050BD
1	C11	CAP CER 0.01uF 50V 10% X7R SMD 0805	Murata	GRM40-X7R103K050BD	Murata	GRM40-X7R103K050BD
2	C15, C17	CAP CER 1uF 10V 10% X7R SMD 0805	Yageo	CC0805KKX7R6BB105	Digi-Key	311-1458-1-ND
1	C20	CAP CER 0.1uF 16V 10% X7R SMD 0603	AVX	0603YC104KAT2A	Digi-Key	478-1239-1-ND
2	D1, D2	DIO LED GREEN 2.1V 20mA 6mcd Diffuse SMD 0805	CML Technologies	7012X5	Digi-Key	L61105TR-ND
1	FB1	FERRITE 500mA 220R SMD 0603	Murata	BLM18AG221SN1D	Digi-Key	490-1012-1-ND
3	J1, J4, J8	CON HDR-2.54 Male 1x2 Gold 5.84MH TH VERT	FCI	77311-118-02LF	Digi-Key	609-4434-ND
1	J2	CONN TERM BLOCK 4POS 5MM PCB	Phoenix Contact	1729034	Digi-Key	277-1238-ND
5	J3, J9, J10, J11, J13	CON HDR-2.54 Male 1x3 Gold 5.84MH TH VERT	FCI	68000-103HLF	Digi-Key	609-3461-ND
1	J5	TERMINAL BLOCK 5MM 6POS PCB	On Shore Technology Inc	ED500/6DS	Digi-Key	ED2223-ND
1	J6	CON HDR-2.54 Male 1x6 Gold 5.84MH TH VERT	FCI	68001-106HLF	Digi-Key	609-3272-ND
1	J7	CON RF Coaxial SMA Female 2P TH VERT	Amphenol Commercial P	901-144-8RFX	Digi-Key	ARFX1231-ND
1	J12	CONN HEADR 2.54MM 40POS GOLD R/A	Sullins Connector Solutio	SBH11-PBPC-D20-RA-BK	Digi-Key	S9183-ND
6	R1, R6, R9, R17, R20, R24	RES TKF 0R 1/8W SMD 0805	Panasonic	ERJ-6GEY0R00V	Digi-Key	P0.0ATR-ND
1	R2	RES TKF 10R 5% 1/8W SMD 0805	Yageo	9C08052A10R0JLHFT	Digi-Key	311-10ACT-ND
4	R3, R5, R30, R31	RES TKF 1k 5% 1/16W SMD 0805	Stackpole Electronics Inc	RMCF 1/10 1K 5% R	Digi-Key	RMCF1/101K5%RDKR-ND
2	R4, R27	RES TKF 1M 1% 1/8W SMD 0805	Panasonic	ERJ-6ENF1004V	Digi-Key	P1.0MCTR-ND
2	R7, R10	RES TKF 2k 1% 1/8W SMD 0805	Stackpole Electronics Inc	RMCF-1/10-2K-1%	Stackpole Elect	RMCF-1/10-2K-1%
5	R8, R19, R21, R25, R26	RES TKF 10k 1% 1/8W SMD 0805	Panasonic	ERJ-6ENF1002V	Digi-Key	P10.0KCTR-ND
1	R11	RES TF 10k 0.1% 1/16W SMD 0805	Panasonic	ERA-6YEB103V	Digi-Key	P10KZTR-ND
1	R12	RES TKF 10k 1% 1/8W SMD 0805	Panasonic	ERJ-6ENF1002V	Digi-Key	P10.0KCTR-ND
3	R13, R14, R22	RES TKF 200k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF2003V	Digi-Key	P200KHCT-ND
3	R15, R18, R28	RES TKF 100R 1% 1/16W SMD 0805	Stackpole Electronics Inc	RMCF 1/10 100 1% R	Digi-Key	RMCF1/101001%RCT-ND
1	R16	RES 20K OHM 1/8W 0.1% 0805 SMD	Panasonic Electronic Cor	ERA-6YEB203V	Digi-Key	P20KZCT-ND
1	R23	RES TRIMMER Cermet 10k 10% 500mW TH 3296W	Murata Electronics North	PV36W103C01B00	Digi-Key	490-2875-ND
1	R32	RES TKF 0R 1/8W SMD 0805	Panasonic	ERJ-6GEY0R00V	Digi-Key	P0.0ATR-ND
1	TP2	CON TP TAB Silver Mini 3.8x2.03 SMD	Keystone Electronics	5019	Digi-Key	5019KCT-ND
9	JP1, JP2, JP3, JP4, JP5, JP6, JP7, JP8, JP9	MECH HW JUMPER 2.54mm 1x2	3M	969102-0000-DA	Digi-Key	3M9580-ND
4	PAD1, PAD2, PAD3, PAD4	MECH HW RUBBER PAD CYLINDRICAL D7.9 H5.3 BLACK	3M	SJ61A11	Digi-Key	SJ5747-0-ND

### Microchip Parts listed below

1	U1	MCP6N16-100 IC Instr. Amp MSOP-8	Microchip Technology	MCP6N16-100E/MS	Digi-Key	MCP6N16-100E/MS-ND
1	U2	MCHP ANALOG VREF 2.5V MCP1525-I/TTG SOT-23-3	Microchip Technology	MCP1525T-I/TT	Digi-Key	MCP1525T-I/TTCT-ND
1	U3	MCHP ANALOG DIGIPOT POTENTIOMETER 1-CH 10K MCP4018T-103E/LT SC70-6	Microchip Technology	MCP4018T-103E/LT	Digi-Key	MCP4018T-103E/LTCT-ND
1	U4	MCP6V11 IC OPAMP Zero-Drift 80kHz SOT23-5	Microchip Technology	MCP6V11T-E/OT	Digi-Key	MCP6V11T-E/OTTR-ND