



Bill of Materials for the NCP4060AGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1,C3,C4	3	CAP CER 4.7UF 100V X7S 1210	4.7uF	±10%	1210	TDK Corporation	C3225X7S2A475K200AB	YES	YES
C2		n/a	DNP	±10%	0603	n/a	n/a	YES	YES
C5,C20,C21	3	CAP CER 0.1UF 100V X7R 0805	0.1uF	±10%	0805	Murata Electronics	GCM21BR72A104KA37L	YES	YES
C6,C7,C12, C13,C14	5	CAP CER 10UF 50V X5R 1210	10uF	±10%	1210		UMK325BJ106MM-T	YES	YES
C8,C10,C22	3	CAP CER 0.1UF 100V X7R 0603	0.1uF	±10%	0603	Samsung Electro-Mechanics	CL10B104KC8NNNC	YES	YES
C9,C15	2	CAP CER 10000PF 50V X7R 0603	10nF	±10%	0603		06035C103KAT2A	YES	YES
C11	1	n/a	DNP		0603	n/a	n/a	YES	YES
C16	1	CAP CER 150PF 50V C0G/NP0 0603	150pF	±5%	0603	Murata Electronics	GRM1885C1H151JA01D	YES	YES
C17	1	CAP CER 4700PF 50V X7R 0603	4.7nF	±10%	0603	Murata Electronics	GCM188R71H472KA37D	YES	YES
C18,C19	2	CAP CER 4.7UF 25V X6S 0603	4.7uF	±10%	0603	Murata Electronics	GRM188C81E475KE11D	YES	YES
D1	1	LED GREEN CLEAR 2SMD	GRN		0805	Vishay	VLMG21J2M1-GS08	YES	YES
D2	1	DIODE GEN PURP 100V 200MA SOD323			SOD-323	ON Semiconductor	BAS16HT1	YES	YES
JP1,JP2	2	5.08MM (.200) FIXED EURO POLRZ			Through Hole	Molex	39889-0042	YES	YES
J1,J2,J4,J5,J6	5	CONN HEADER 2POS .100 VERT TIN			Through Hole	Molex	22-03-2021	YES	YES
L1	1	FIXED IND 18UH 7.5A 22 MOHM SMD	18uH	±20%	Surface Mount	Würth Electronics	7443551181	YES	YES
Q5	1	MOSFET N-CH 60V 0.115A SOT-23	NMOS		QSM1_SOT23	ON Semiconductor	2N7002LT1G	YES	YES
R4	1	RES SMD 40.2K OHM 1% 1/10W 0603	40.2K	±1%	0603	Yageo	AC0603FR-0740K2L	YES	YES
R5,R10,R15	3	RES SMD 0 OHM JUMPER 1/10W 0603	0	±1%	0603	Panasonic Electronic Components	ERJ-3GEY0R00V	YES	YES
R6	1	D11/CRCW0603-C 100 6K19 1%	6.19K	±1%	0603	Vishay	CRCW06036K19FKEB	YES	YES
R9	1	RES SMD 100 OHM 5% 1/10W 0603	DNP	±1%	0603	Vishay	CRCW0603100RJNEA	YES	YES
R11	1	D11/CRCW0603-C 100 2K21 1%	2.21K	±1%	0603	Vishay	CRCW06032K21FKEA	YES	YES
R12	1	RES SMD 20K OHM 1% 1/10W 0603	20K	±1%	0603	Vishay	CRCW060320K0FKEA	YES	YES
R13	1	RES SMD 68 OHM 5% 1/10W 0603	68	±1%	0603	Vishay	CRCW060368R0JNEA	YES	YES
R14	1	RES SMD 10K OHM 1% 1/10W 0603	10.0K	±1%	0603	Vishay	CRCW060310K0FKEA	YES	YES
R16	1	RES SMD 6.65K OHM 1% 1/10W 0603	6.65K	±1%	0603	Vishay	CRCW06036K65FKEA	YES	YES
R17	1	RES SMD 2.32K OHM 1% 1/10W 0603	2.32K	±1%	0603	Vishay	CRCW06032K32FKEA	YES	YES
R18	1	RES SMD 931 OHM 1% 1/10W 0603	931	±1%	0603	Vishay	CRCW0603931RFKEA	YES	YES
R19	1	RES SMD 49.9 OHM 1% 1/10W 0603	49.9	±1%	0603	anasonic Electronic Component	ERJ-3EKF49R9V	YES	YES
R20	1	RES SMD 511 OHM 1% 1/10W 0603	511	±1%	0603	Vishay	CRCW0603511RFKEA	YES	YES
TP9, TP10,TP11, TP12, TP13	17	TERM TURRET SNG				Mill-Max	2305-2-00-01-00-00-07-0	YES	YES
U1	1	NCP4060			QFN19 6x6mm	ON Semiconductor	NCP4060AMN1XG	NO	YES