



Bill of Materials for the NCP3231GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
CBLK1	1	Capacitor, Surface mount, Al. Electrolytic	DNP	-	AL_SMT_E_CAP	DNP	DNP	YES	YES
C1, C2, C3, C4, C5, C7	6	Capacitor, MLCC, 25 V, X5R	22 uF	±20%	1210CAP	Murata	GRM32ER61E226ME15L	YES	YES
C6, C11	2	Capacitor, MLCC, 10 V, X5R	1 uF	±10%	0805CAP	Murata	GRM219R61A105KA01D	YES	YES
C8	1	Capacitor, MLCC, 50 V, X7R	22 nF	±10%	0603CAP	Murata	GRM188R71H223KA01D	YES	YES
C9	1	Capacitor, MLCC, 50 V, X7R	0.1 uF	±10%	0603CAP	Murata	GRM188R71H104KA93D	YES	YES
C10	1	Capacitor, MLCC, 6.3 V, X5R	4.7 uF	±20%	0603CAP	Murata	GRM188R60J475ME19D	YES	YES
C13	1	Capacitor, MLCC, DNP	DNP	—	0603CAP	DNP	DNP	YES	YES
C14, C15, C16, C17, C18	5	Capacitor, MLCC, 6.3 V, X5R	100 uF	±20%	1210CAP	Taiyo Yuden	JMK325BJ107MM-T	YES	YES
C19, C20, C21, C22, C23, C27	6	Capacitor, MLCC, DNP	DNP	—	1210CAP	DNP	DNP	YES	YES
C24	1	Capacitor, MLCC, 50 V, C0G	10 pF	±5%	0603CAP	Murata	GRM1885C1H100JA01D	YES	YES
C25	1	Capacitor, MLCC, 50 V, X7R	2.2 nF	±10%	0603CAP	Murata	GRM188R71H222KA01D	YES	YES
C26	1	Capacitor, MLCC, 50 V, C0G	680 pF	±5%	0603CAP	Murata	GRM1885C1H681JA01D	YES	YES
J1	1	HEADER 4	—	—	HEADER_4P_0_2_RA	Würth Elektronik	691313510004	YES	YES
J2	1	HEADER 6	—	—	HEADER_6P_0_2_RA	Würth Elektronik	691313510006	YES	YES
J3, J4, J7, J8, J9, J10, J11, J12, J13	18	TP_SCOPE	—	—	Through-hole	Mill-Max	0338-0-15-01-15-01-10-0	YES	YES
U1	1	NCP3231	—	—	QFN40_6X6_0_5P	ON Semiconductor	NCP3231MNTXG	NO	YES
L1	1	Inductor, Surface mount	0.47 uH	±20%	12 x 12 mm	Würth Elektronik	7443320047	NO	YES
MTG1, MTG2, MTG3, MTG4	4	Mounting Hole 0.125"	—	—	STANDOFF_125MIL_TIGHT	N/A	N/A	YES	YES
—	1	PCB fab, NCP3231 EVB, Rev. 4.1	—	—	—	N/A	N/A	YES	YES
RBODE1, R6	2	Resistor, Surface mount, 0.0, 0.1 W,	0	Jumper	0603RES	Stackpole	RMCF0603ZT0R00	YES	YES
R1	1	Resistor, Surface mount, 1%, 0.1 W	20.0k	1%	0603RES	Stackpole	RMCF0603FT20K0	YES	YES
R2	1	Resistor, Surface mount, 1%, 0.1 W	4.42k	1%	0603RES	Stackpole	RMCF0603FT4K42	YES	YES
R3	1	Resistor, Surface mount, 1%, 0.1 W	7.87k	1%	0603RES	Stackpole	RMCF0603FT7K87	YES	YES
R4	1	Resistor, Surface mount, 5%, 0.1 W	1.0k	5%	0603RES	Stackpole	RMCF0603JT1K00	YES	YES
R5, R7, R8, R11, R14	5	Resistor, Surface mount, DNP	DNP	—	0603RES	DNP	DNP	YES	YES
R9	1	Resistor, Surface mount, 5%, 0.1 W	10k	5%	0603RES	Stackpole	RMCF0603JT10K0	YES	YES
R10	1	Resistor, Surface mount, 1%, 0.1 W	5.11k	1%	0603RES	Stackpole	RMCF0603FT5K11	YES	YES
R13	1	Resistor, Surface mount, DNP	DNP	—	R1206	DNP	DNP	YES	YES
A, B, GND, GNDA, GNDB, GNDVIN, GNDVO, TPCMP, TPEN, TPFB, TPOTS, TPPG, TPVIN, TPVO, TPVSW, TPISET	16	Test point, turret	—	—	Through-hole	Mill-Max	2108-2-00-44-00-00-07-0	YES	YES
—	1	Mating connector for J1	—	—	Through-hole	Würth Elektronik	691351500004	YES	YES
—	1	Mating connector for J2	—	—	Through-hole	Würth Elektronik	691351500006	YES	YES