



Bill of Materials for the NCP/NCV1362GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C2	1	Ceramic capacitor, 1206, 200V	470pF	10%, 200V	1206		Standard	Yes	Yes
C3	1	X2 capacitor, 305V	100nF	305V	through-hole		B32921C3104	Yes	Yes
C4, C5	2	Electrolytic capacitor, 400V	10uF	400V	D08_H13_P5		UVC2G100MPD	NO	Yes
C6	1	Ceramic capacitor, 0805, 35V	2.2uF	10%, 35V	805		Standard	Yes	Yes
C7	1	Y1 capacitor, 440V	100pF	440V	through-hole		CD70-B2GA101KYNKA	NO	Yes
C9, C16	2	Ceramic capacitor, 0805, 50V	22pF	10%, 50V	805		Standard	Yes	Yes
C10	1	Ceramic capacitor, 0805, 50V	100pF	10%, 50V	805		Standard	Yes	Yes
C11	1	Ceramic capacitor, 0805, 50V	4.7uF	10%, 35V	805		Standard	Yes	Yes
C12	1	Ceramic capacitor, 0805, 50V	4.7nF	10%, 50V	805		Standard	Yes	Yes
C14	1	Ceramic capacitor, 0805, 50V	1 nf	10%, 50V	805		Standard	Yes	Yes
C15	1	Ceramic capacitor, 0805, 50V	100nF	10%, 50V	805		Standard	Yes	Yes
CM1	1	Common Mode Choke	2.2mH	0.5A	through-hole		50225C	Yes	Yes
COU1, COU2	2	Polymer capacitor, 16V	470uF	20%, 16V	D10_H13_P5		PLF1C471MDO1	Yes	
COU3	1	Electrolytic capacitor, 16V	47uF	20%, 16V	D5_H7_P2.5		ECA1CAK470X	Yes	Yes
D1	1	Schottky Diode, SMB, 5A, 100V	NRVTSS5100	5A, 100V, SMB	SMB		NRVTSS5100ET3G	Yes	Yes
D2	1	Fast Recovery Diode, Axial, 1A, 600V	CSFMT108	1A, 600V, SOD123H	SOD-123H		CSFMT108-HF	Yes	Yes
D3	1	Diode, Axial, 200mA, 250V	BAS21	100V	SOD323		BAS21AHT1G	Yes	Yes
D4	1	Diode, SMD, 100V	D1N4148	18V, SOD123	SOD-123		MMSD4148	Yes	Yes
D5	1	18 V Zener Diode	zener		SOD-123		Standard	Yes	Yes
DB1	1	Diode Bridge, SMD, 0.8A, 600V	HD06		SOIC8		Standard	Yes	Yes
IC1	1	PSR controller	NCV1362	10A, 300V	SOIC8		NCV1362AADR2G	Yes	Yes
J1, J2	2	Output Connector	PM5.08/2/90	10%, 0.5A	through-hole		PM5.08/2/90	Yes	Yes
L1	1	Radial Coil, 220uH, 0.5A, 10%	220uF	30%, 3A	through-hole		7447462221	Yes	Yes

L2	1	Radial Coil, 1uH, 3A, 30%	1uH	IPAK	through-hole		SRN4026-1ROY	Yes	Yes
M2	1	MOSFET, 650V, 6A	FCU600N65	SOT-23	IPAK		FCU600N65S3R0	Yes	Yes
Q1	1	PNP transistor, SMD	BC857	5%	SOT-23		BC857ALT1G	Yes	Yes
R4, R9	2	Ceramic Resistor, 1206, 0.25W, 200V	68 k	5%	1206		Standard	Yes	Yes
R6	1	Ceramic Resistor, 1206, 0.25W	150	1%	1206		Standard	Yes	Yes
R8	1	Through hole resistor, 1W, 1%	5	5%	through-hole		CMF605R0000FKBF	Yes	Yes
R10, R13, R19	3	Ceramic Resistor, 0805, 0.25W	0	5%	805		Standard	Yes	Yes
R11	1	Ceramic Resistor, 0805, 0.25W	16k	5%	805		Standard	Yes	Yes
R15, R17	2	Ceramic Resistor, 0805, 0.25W	1M	5%	805		Standard	Yes	Yes
R16	1	Ceramic Resistor, 0805, 0.25W	10	5%	805		Standard	Yes	Yes
R18	1	Ceramic Resistor, 0805, 0.25W	47k	5%	805		Standard	Yes	Yes
R22	1	Ceramic Resistor, 0805, 0.25W	10k//300k (Stacked in Parallel)	5%	805		Standard	Yes	Yes
R24	1	Ceramic Resistor, 0805, 0.25W	4.3k	5%	805		Standard	Yes	Yes
R25	1	Ceramic Resistor, 0805, 0.25W	10M	5%	805		Standard	Yes	Yes
R28	1	Ceramic Resistor, 0805, 0.25W	75k	5%	805		Standard	Yes	Yes
R29	1	Ceramic Resistor, 0805, 0.25W	240k	5%	805		Standard	Yes	Yes
R30	1	Ceramic Resistor, 0805, 0.25W	1.2k	5%	805		Standard	Yes	Yes
R31	1	NTC, 100k at 25C, Beta=4190	100k @25C	0.05	through-hole		NTCLE100E3104JB0	Yes	Yes
ROUT1	1	Ceramic Resistor, 2512, 1W	0R	5%	2512		Standard	Yes	Yes
R31	1	Ceramic Resistor, 0805, 0.25W	1.3	1%	805		Standard	Yes	Yes
R32	1	Ceramic Resistor, 0805, 0.25W	3	1%	805		Standard	Yes	Yes
T1	1	Transformer, Würth			through-hole		7508111333r03	Yes	Yes