



Bill of Materials for the NCV97310MW33GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1, C2, CSNB2, CSNB3	4	CAP CER 100PF 50V 5% NPO 0603	100pF	5%	603	Murata Electronics North America	GCM1885C1H101JA16D	Yes	Yes
C3, CBST1, CBST2, CBST3, CDRV1	5	CAP CER 0.1UF 50V 10% X7R 0603	0.1uF	10%	603	Murata Electronics North America	GCM188R71H104KA57D	Yes	Yes
CCOMP1	1	CAP CER 330PF 50V 5% NPO 0603	330pF	5%	603	Murata Electronics	GCM1885C1H331JA16D	Yes	Yes
CCOMP2	1	CAP CER 22PF 50V 5% NPO 0603	22pF	5%	603	Murata Electronics	GCM1885C1H220JA16D	Yes	Yes
CDRV2	1	CAP CER 0.47UF 16V 10% X7R 0603	0.47uF	10%	603	Murata Electronics North America	GCM188R71C474KA55D	Yes	Yes
CIND, CIN1	3	CAP CER 4.7UF 50V 10% X7R 1206	4.7uF	10%	1206	TDK Corporation	C3216X7R1H475K160AC	Yes	Yes
CIN3	1	CAP CER 1.0UF 50V 10% X7R 1206	1.0uF	10%	1206	Murata Electronics North America	GCM31MR71H105KA55L	Yes	Yes
CIN4	1	CAP CER 2.2UF 50V 10% X7R 1206	2.2uF	10%	1206	Murata Electronics North America	GCM31CR71H225KA55L	Yes	Yes
CIN5	1	CAP ALUM 100UF 50V 20% SMD	100uF	20%	FK V E	Chemi-Con	EMZA500ADA101MHA0G	Yes	Yes
CO14	1	CAP CER 1UF 16V 10% X7R 0603	1.0uF	10%	603	Murata Electronics North America	GCM188R71C105KA64D	Yes	Yes
CO15	1	CAP CER 4.7UF 16V 10% X7R 0805	4.7uF	10%	805	TDK Corporation	CGA4J3X7R1C475K125AB	Yes	Yes
COU11, COU12, COU13, COU21, COU22, COU31, COU32	7	CAP CER 10UF 10V 10% X7R 1206	10uF	10%	1206	Murata Electronics North America	GCM31CR71A106KA64L	Yes	Yes
R1, R2	2	RES 0.0 OHM 1/10W 0603 SMD	0	Jumper	603	Vishay/Dale	CRCW06030000Z0EA	Yes	Yes
R3, R4, R5, R6, RFB2U, RFB3U	6	RES 10.0K OHM 1/10W 1% 0603 SMD	10.0K	1%	603	Vishay/Dale	CRCW060310K0FKEA	Yes	Yes
R7	1	RES 0.0 OHM 1/4W 1206 SMD	0	Jumper	1206	Vishay/Dale	CRCW12060000Z0EA	Yes	Yes
RCOMP1	1	RES 12.4K OHM 1/10W 1% 0603 SMD	12.4K	1%	603	Vishay/Dale	CRCW060312K4FKEA	Yes	Yes
RDRV1	1	RES 100K OHM 1/10W 1% 0603 SMD	100K	1%	603	Vishay/Dale	CRCW0603100KFKEA	Yes	Yes
RFB2L	1	RES 20.0K OHM 1/10W 1% 0603 SMD	20.0K	1%	603	Vishay/Dale	CRCW060320K0FKEA	Yes	Yes
RSNB2, RSNB3	2	RES 10.0 OHM 1/10W 1% 0603 SMD	10.0	1%	603	Vishay/Dale	CRCW060310R0FKEA	Yes	Yes
D1	1	DIODE SCHOTTKY 4.0A 40V SMB	40V / 4.0A	N/A	SMB DIODE	ON Semiconductor	NRVB440MFST1G	No	Yes
L0, L3	2	High Current Shielded Inductor 1.0uH, 8.7A SAT	1.0uH	20%	XAL4020-102ME	Coilcraft	XAL4020-102ME	No	Yes
L1	1	High Current Shielded Inductor 4.7uH, 4.5A SAT	4.7uH	20%	XAL4030-472ME	Coilcraft	XAL4030-472ME	No	Yes
L2	1	High Current Shielded Inductor 2.2uH, 5.6A SAT	2.2uH	20%	XAL4020-222ME	Coilcraft	XAL4020-222ME	No	Yes
EN, EN2, EN3, ERRB, GNDL, PGND1_1, PGND1_2, PGND2_1, PGND3_1, RST1B, RST2B, RST3B, STBYB, SW1, SW2, SW3, VIN2, VBAT_1, VOUT1_1, VOUT2_1, VOUT3_1	21	PIN INBOARD .042" HOLE 1000/PKG	N/A	N/A	TP	Vector Electronics	K24C/M	Yes	Yes
GND0, GND1, GND2, GND3, VBAT, VOUT1, VOUT2, VOUT3	8	CONN JACK BANANA UNINS PANEL MOU	N/A	N/A	BANANA	Emerson Network Power Connectivity Johnson	108-0740-001	No	Yes
J1, J2, J3, J4	4	CONN HEADER 2POS .100 VERT GOLD	N/A	N/A	JMP	Molex Connector Corporation	22-28-4023	Yes	Yes
	4	CONN JUMPER SHORTING GOLD	N/A	N/A	JMP	Sullins Connector Solutions	SSC02SYAN	Yes	Yes
COMP1, DRV1, FB2, FB3, RMIN, TP1, TP2, TP3, VIND	9	CIRCUIT PIN PRNTD .020"D .425"L	Do Not Populate	N/A	SMALLTP	Mill-Max Manufacturing Corp.	3128-2-00-15-00-00-08-0	Yes	Yes
RDEPTH, RFB3L, RMOD, ROSC	4		Do Not Populate		603			Yes	Yes
U1	1	Automotive Battery-Connected Low IQ Multi-Output PMU	N/A	N/A	QFN32	ON Semiconductor	NCV97310MW33R2G	No	Yes