



Bill of Materials for the NCV97400GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1, C2, C3, C4, CSNB2, CSNB3, CWDT	7	CAP CER 100PF 50V COG/NP0 0402	100pF	5%	402	Murata Electronics North America	GCM1555C1H101JA16D	Yes	Yes
CBST1, CBST2, CBST3, CDRV1, CIN0	5	CAP CER 0.1UF 50V X7R 0402	0.1uF	10%	402	Murata Electronics North America	GCM155R71H104KE02D	Yes	Yes
CCOMP1	1	CAP CER 560PF 50V NP0 0402	560pF	5%	402	Taiyo Yuden	UMK105CG561JVHF	Yes	Yes
CCOMP2	1	CAP CER 10PF 50V COG/NP0 0402	10pF	5%	402	Murata Electronics North America	GCM1555C1H100JA16D	Yes	Yes
CIN1, CIN2	2	CAP CER 4.7UF 50V 10% X7R 1206	4.7uF	10%	1206	TDK Corporation	C3216X7R1H475K160AC	Yes	Yes
CIN3	1	CAP CER 1UF 50V X7R 0805	1uF	10%	805	Murata Electronics North America	GCM21BR71H105KA03L	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, COUT41, COUT42	3	CAP CER 4.7UF 16V X7R 0805	4.7uF	10%	805	Murata Electronics North America	GCM21BR71C475KA73L	Yes	Yes
COUT11, COUT12, COUT13, COUT21, COUT22, COUT31, COUT32	7	CAP CER 10UF 10V X7R 0805	10uF	10%	805	Murata Electronics North America	GCM21BR71A106KE22L	Yes	Yes
R1, R2, R8, R9, RIDV1	5	RES 0.0 OHM 1/10W 0603 SMD	0	Jumper	603	Vishay/Dale	CRCW0603000Z0EA	Yes	Yes
R3, R4, R5, R6, RFB2U, RFB2U1, RFB3U, RFB3U1	8	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	CRCW1206000Z0EA	Yes	Yes
RCOMP1	1	RES 12.4K OHM 1/10W 1% 0603 SMD	12.4K	1%	603	Vishay/Dale	CRCW060312K4FKEA	Yes	Yes
RFB2L, RFB2L1	2	RES 8.06K OHM 1/10W 1% 0603 SMD	8.06K	0.01	603	Vishay/Dale	CRCW06038K06FKEA	Yes	Yes
RFB3L, RFB3L1	2	RES 20K OHM 1/10W 1% 0603 SMD	20.0K	0.01	603	Vishay/Dale	CRCW060320K0FKEA	Yes	Yes
RIDV2, RIDV3, RIDV4, RSNB2, RSNB3	5	RES 10.0 OHM 1/10W 1% 0603 SMD	10	0.01	603	Vishay/Dale	CRCW060310R0FKEA	Yes	Yes
D1	1	DIODE SCHOTTKY 4.0A 40V SMB	40V / 4.0A	N/A	MBR340MFS	ON Semiconductor	NRVB440MFST1G	Yes	Yes
D2	1	DIODE SCHOTTKY 40V 1A SMA	40V / 1.0A	N/A	SMA_DIODE	ON Semiconductor	NRVBA140T3G	Yes	Yes
L0, L3	2	High Current Shielded Inductor 1.0uH, 8.7A	1.0uH	0.2	XAL4030-472ME	Coilcraft	XAL4020-102ME	No	Yes
L1	1	High Current Shielded Inductor 4.7uH, 4.5A	4.7uH	0.2	XAL4030-472ME	Coilcraft	XAL4030-472ME	No	Yes
L2	1	High Current Shielded Inductor 2.2uH, 5.6A	2.2uH	0.2	XAL4030-472ME	Coilcraft	XAL4020-222ME	No	Yes
L4	1	Shielded Power Inductor 4.7uH, 1.0A	4.7uH	0.2	XFL3010	Coilcraft	XFL3012-472ME	No	Yes
EN1, EN2, EN3, GND, PGND1_1, PGND1_2, PGND2_1, PGND3_1, PGND4_1, RST1B, RST2B, RST3B, RST4B, SW1, SW2, SW3, SW4, SYNC1, VBAT, VIN2, VOUT1_1, VOUT2_1, VOUT3_1, VOUT4, WDI	25	PIN INBOARD .042" HOLE 1000/PKG	N/A	N/A	TP	Vector Electronics	K24C/M	No	Yes
GND0, GND1, GND2, GND3, VBAT1, 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, J3, J4, J5, J6	5	CONN HEADER 2POS .100 VERT GOLD	N/A	N/A	JMP	Molex Connector Corporation	22-28-4023	No	Yes
	5	CONN JUMPER SHORTING GOLD	N/A	N/A	JMP	Sullins Connector Solutions	SSC02SYAN	No	Yes
COMP1, DRV1, FB2, FB2S, FB3, FB3S, RID1 through RID8, VIND, WDT	Do Not Populate	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	No	Yes
U1	1	Automotive Multi-Output PMU (3 Bucks, 1 Boost)	N/A	N/A	QFN32	ON Semiconductor	NCV97400MW00R2G	Yes	Yes