



## Bill of Materials for the NCV881930MW00-33GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
CBST, CDBIAS, CFL1, CIN1, CO1, COP26, CSSC, CV_CS, CV_SO	9	CAP CER 0.1UF 50V 10% X7R 0603	0.1uF	10%	603	Murata Electronics North America	GCM188R71H104KA57D	Yes	Yes
CDRV, CO2, CVCCX	3	CAP CER 1UF 16V X7R 0603	1uF	10%	603	Murata Electronics North America	GCM188R71C105KA64D	Yes	Yes
CFL2, CIN2, CVIN	3	CAP CER 1UF 50V 10% X7R 0805	1uF	10%	805	TDK Corporation	CGA4J3X7R1H105K125AE	Yes	Yes
CIN3, CIN4, CIN5, CIN6	4	CAP CER 4.7UF 50V X7R 1210	4.7uF	10%	1210	Kemet	C1210C475K5RACAUTO	Yes	Yes
CFL3	1	CAP ALUM POLY HYB 270UF 35V SMD	270uF	20%	FK_V_G	Chemi-Con	HHXB350ARA271MJA0G	Yes	Yes
CO3 thur CO13	11	CAP CER 22UF 10V X7R 1210 / CAP CER 22UF 25V X7R 1210	22uF	10%	1210	Murata Electronics North America	GCM32ER71A226KE12L or GRJ32EC71E226KE11L	No	Yes
CO14 thur CO23	Do Not Populate	CAP CER 22UF 10V X7R 1210 / CAP CER 22UF 25V X7R 1210	22uF	10%	1210	Murata Electronics North America	GCM32ER71A226KE12L or GRJ32EC71E226KE11L	No	Yes
COP1	Do Not Populate	CAP ALUM POLY 220UF 20% 6.3V SMD	220uF	20%	CAP_SMD_8P3	Panasonic Electronic Components	6SVQP220M	Yes	Yes
CSF1	Do Not Populate	CAP CER 100PF 50V COG 0603	100pF	5%	603	Murata Electronics North America	GCM1885C1H101JA16D	Yes	Yes
CSNB	1	CAP CER 100PF 50V COG 0603	100pF	5%	603	Murata Electronics North America	GCM1885C1H101JA16D	Yes	Yes
D1	1	DIODE SCHOTTKY 60V 2A SMB	60V / 2A	N/A	SMB_DIODE	ON Semiconductor	NRVBS260T3G	No	Yes
D2	Do Not Populate	DIODE SCHOTTKY 20V 1A POWERMITE	20V / 1A	N/A	POWERMITE	ON Semiconductor	MBRM120L1TG	No	Yes
L0	1	INDUCTOR POWER 2.2UH 15.9A SMD	2.2uH	20%	XAL60XX	Coilcraft	XAL6030-222ME	No	Yes
L1	1	INDUCTOR POWER 3.3UH 19.4A	3.3uH	20%	XAL8080	Coilcraft	XAL7070-332ME	No	Yes
Q1, Q2	2	40V, 4.5m, 78A, Single N-Channel MOSFET	40V / 78A	N/A	SO8_FL	ON Semiconductor	NVMFS5C460NLWFAFT1G	No	Yes
RBST, RGH1, RGL1	3	RES SMD 0.0 OHM JUMPER 1/10W 0603	0	N/A	603	Vishay Dale	CRCW06030000Z0EA	Yes	Yes
REN, RRSTB	2	RES SMD 10K OHM 1% 1/10W 0603	10K	1%	603	Vishay Dale	CRCW060310K0FKEA	Yes	Yes
RINJ	1	RES SMD 10 OHM 1% 1/10W 0603	10	1%	603	Vishay Dale	CRCW060310R0FKEA	Yes	Yes
ROSC	Do Not Populate		TBD		603				
RSF1, RSF2	2	RES SMD 0.0 OHM JUMPER 1/10W 0603	0	N/A	603	Vishay Dale	CRCW06030000Z0EA	Yes	Yes
RSNB	1	RES SMD 9.1 OHM 1% 1/4W 1206	9.1	1%	1206	Stackpole Electronics Inc.	RMCF1206FT9R10	Yes	Yes
RSNS, RSNS1	2	RES 0.012 OHM 1% 1/2W 0805	0.012	1%	1206	Susumu	KRL1220E-M-R012-F-T5	Yes	Yes
RSNS2	Do Not Populate	RES 0.012 OHM 1% 1/2W 0805	0.012	1%	1206	Susumu	KRL1220E-M-R012-F-T5	Yes	Yes
RSYNC1	1	RES SMD 100 OHM 1% 1/10W 0603	100	1%	603	Vishay Dale	CRCW0603100RFKEA	Yes	Yes
RVIN	1	RES SMD 1 OHM 1% 1/10W 0603	1	1%	603	Vishay Dale	CRCW06031R00FKEA	Yes	Yes

RVSELH	Do Not Populate	RES SMD 10K OHM 1% 1/10W 0603	10K	1%	603	Vishay Dale	CRCW060310K0FKEA	Yes	Yes
RVSELL	1	RES SMD 10K OHM 1% 1/10W 0603	10K	1%	603	Vishay Dale	CRCW060310K0FKEA	Yes	Yes
GND1, GND2, VIN_FLT, VOUT	4	CONN JACK BANANA UNINS PANEL MOU	N/A	N/A	BANANA	Emerson Network Power Connectivity Johnson	108-0740-001	No	Yes
ENABLE, GND3 thur GND7, RSTB, SYNCI, VCCEXT, VIN1, VIN_FLT1, VOUT1, VSEL	13	PIN INBOARD .042" HOLE 1000/PKG	N/A	N/A	TP	Vector Electronics	K24C/M	Yes	Yes
BST, CSN, CSP, DBIAS, EN_MON, GH, GL, GND8, RCL1, RCL2, RVL1, RVL2, SSC, SW, SYNCO, V_CS, V_SO, VDRV	Do Not Populate (18)	CIRCUIT PIN PRNTD .020"D .425"L	N/A	N/A	SMALLTP	Mill-Max Manufacturing Corp.	3128-2-00-15-00-00-08-0	Yes	Yes
J1	1	CONN HEADER 2POS .100 VERT GOLD	N/A	N/A	JMP	Molex Connector Corporation	22-28-4026	Yes	Yes
	1	CONN JUMPER SHORTING GOLD	N/A	N/A	JMP	Sullins Connector Solutions	SSC02SYAN	Yes	Yes
MNT1, MNT2, MNT3, MNT4	4	18-8 Stainless Steel Male-Female Threaded Hex Standoff, 1/4" Hex Size, 5/8" Length, 4-40 Thread Size	N/A	N/A	#4MOUNT	McMaster-Carr	91075A433	Yes	Yes
	4	18-8 Stainless Steel Locknut with External-Tooth Lock Washer, 4-40 Thread Size	N/A	N/A	#4MOUNT	McMaster-Carr	96278A005	Yes	Yes
U1	1	Low Iq 410KHz Automotive Synchronous Buck Controller	N/A	N/A	QFN24_4X4_P5	ON Semiconductor	NCV881930MW00AR2G	No	Yes