ON Semiconductor®

Bill of Materials for the NCV887801BSTGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	CAP CER 330PF 50V 5% NP0 0603	330pF	5%	603	Murata Electronics North America	GCM1885C1H331JA16D	Yes	Yes
C2	1	CAP CER 0.033UF 50V 10% X7R 0603	0.033uF	10%	603	TDK Corporation	CGA3E2X7R1H333K080AA	Yes	Yes
C3	1	CAP CER 1UF 16V 10% X7R 0603	1uF	10%	603	Murata Electronics	GCM188R71C105KA64D	Yes	Yes
C4, CO1	2	CAP CER 1UF 50V 10% X7R 0805	1.0uF	10%	805	TDK Corporation	CGA4J3X7R1H105K125AB	Yes	Yes
C5	1	CAP CER 150PF 50V 5% NP0 0603	150pF	5%	603	Murata Electronics North America	GCM1885C1H151JA16D	Yes	Yes
CI1, CO6	2	CAP CER 0.1UF 50V 10% X7R 0805	100nF	10%	805	Murata Electronics North America	GCM21BR71H104KA37L	Yes	Yes
CI2	1	CAP ALUM 220UF 50V 20% SMD	220uF	20%	FC_V_G	Chemi-Con	EMZA500ADA221MJA0G	Yes	Yes
CI3	1	CAP ALUM 470UF 50V 20% RADIAL	470uF	20%	12.5X25	Panasonic Electronic Components	EEU-FC1H471	Yes	Yes
CO2, CO3, CO4	3	CAP ALUM 100UF 35V 20% SMD	100uF	20%	FC_V_G	Nichicon	RHS1V101MCN1GS	No	Yes
CO5	1	CAP CER 4.7UF 50V 10% X7R 1210	4.7uF	10%	1210	Murata Electronics North America	GCM32ER71H475KA55L	Yes	Yes
CSNB	1	CAP CER 3300PF 50V 5% NP0 0603	3300pF	5%	603	TDK Corporation	CGA3E2C0G1H332J080AA	Yes	Yes
D1	1	40 V, 4.0 A Schottky Rectifier SO8-FL	40V / 4A	N/A	MBR340MFS	ON Semiconductor	NRVB440MFST1G	No	Yes
D2	1	DIODE ZENER 3.3V 200MW SOD323	3.3V	5%	SOD_323	ON Semiconductor	MM3Z3V3T1G	Yes	Yes
L1	1	INDUCTOR POWER 2.2UH 22A SMD	2.2uH	20%	TOKO_DSH126C_IND	Vishay Dale	IHLP5050FDER2R2M01	No	Yes
Q1	1	N-Channel Power MOSFET 60V 61A SO-8FL	60V / 61A	N/A	MBR340MFS	ON Semiconductor	NVMFS5844NL	No	Yes
R1	1	RES 3.01K OHM 1/10W 1% 0603 SMD	3.01K	1%	603	Vishay Dale	CRCW06033K01FKEA	Yes	Yes
R2	1	RES 10.7K OHM 1/10W 1% 0603 SMD	10.7k	1%	603	Vishay Dale	CRCW060310K7FKEA	Yes	Yes
R3	1	RES 0.0 OHM 1/10W JUMP 0603 SMD	0	Jumper	603	Vishay Dale	CRCW06030000Z0EA	Yes	Yes
R4	1	RES 249 OHM 1/10W 1% 0603 SMD	249	1%	603	Vishay Dale	CRCW0603249RFKEA	Yes	Yes
R5	DNP				1206				Yes
R6, R7	2	RES 0.022 OHM 1W 5% 1206 SMD	0.022	5%	1206	Panasonic Electronic Components	ERJ-8BWJR022V	No	Yes
RDAMP	1	RES 0.39 OHM 1/10W 1% 0603 SMD	0.39	1%	603	Panasonic Electronic Components	ERJ-3RQFR39V	Yes	Yes
RSNB	1	RES 5.60 OHM 1/10W 1% 0603 SMD	5.6	1%	603	Vishay Dale	CRCW06035R60FKEA	Yes	Yes
GND1, GND2, VIN1, VOUT	4	TERM SOLDER TURRET .219" .109"L	N/A	N/A	TURRET	Mill-Max Manufacturing Corp.	2501-2-00-44-00-00-07-0	Yes	Yes
DISB, GND2, GND4, GND5, GND6, ISNS, SW, VC, VDRV, VG, VIN2, VOUT1, VOUT2	13	PIN INBOARD .042" HOLE 1000/PKG	N/A	N/A	TP	Vector Electronics	K24C/M	Yes	Yes
U1	1	Automotive Non-Sync Boost Controller	N/A	N/A	SOIC8_N_ADJ	ON Semiconductor	NCV887801	No	Yes