



Bill of Materials for the NCV887601BSTGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1, C12	2	Capacitor, Ceramic	100nF, 50V	10%	0805	Murata Electronics	GCM21BR71H104KA37L	Yes	Yes
C2	1	Capacitor	56uF, 50V	20%	Radial	Chemi-Con	EKZE500ELL560MF11D	Yes	Yes
C3	1	Capacitor, Ceramic	1uF, 16V	10%	0603	Murata Electronics	GCM188R71C105KA64D	Yes	Yes
C4	1	Capacitor, Ceramic	470pF, 50V	5%	0603	Murata Electronics	GCM1885C1H471JA16D	Yes	Yes
C5	1	Capacitor, Ceramic	0.033uF, 50V	10%	0603	TDK Corporation	CGA3E2X7R1H333K080AA	Yes	Yes
C6	1	Capacitor, Ceramic	3300pF, 50V	5%	0603	TDK Corporation	CGA3E2C0G1H332J080AA	Yes	Yes
C7	1	Capacitor, Ceramic	4.7uF, 50V	10%	1206	Taiyo Yuden	UMK316AB7475KL-T	Yes	Yes
C8, C9, C10	3	Capacitor	100uF, 35V	20%	Radial	Nichicon	RHS1V101MCN1GS	Yes	Yes
C11	1	Capacitor, Ceramic	1uF, 50V	10%	1206	Murata Electronics	GCM31MR71H105KA55L	Yes	Yes
C13	1	Capacitor, Ceramic	1uF, 50V	10%	0805	TDK Corporation	CGA4J3X7R1H105K125AB	Yes	Yes
C14	1	Capacitor, Ceramic	100pF, 50V	5%	0603	Murata Electronics	GCM1885C1H101JA16D	Yes	Yes
D1	1	Schottky Rectifier	40V, 4A	-	S08-FL	ON Semiconductor	NRVB440MFST1G	No	Yes
D2	1	Zener Diode	3.3V, 200mW	-	SOD323	ON Semiconductor	MM3Z3V3ST1G	No	Yes
L1	1	Inductor	2.2uH	20%	13.20mm x 12.90mm	Vishay Dale	IHLP5050FDER2R2M01	No	Yes
Q1	1	Power Mosfet	60V, 61A	-	S08-FL	ON Semiconductor	NVMFS5844NL	No	Yes
R1	1	Resistor	3.01K ohm, 0.1W	1%	0603	Vishay Dale	CRCW06033K01FKEA	Yes	Yes
R2	1	Resistor	10.7K ohm, 0.1W	1%	0603	Vishay Dale	CRCW060310K7FKEA	Yes	Yes
R3	1	Jumper	0 ohm	-	0603	Vishay Dale	CRCW06030000Z0EA	Yes	Yes
R4	1	Resistor	845 ohm, 0.1W	1%	0603	Vishay Dale	CRCW0603845RFKEA	Yes	Yes
R5	1	Resistor	9.10K ohm, 0.1W	1%	0603	Vishay Dale	CRCW06039K10FKEA	Yes	Yes
R6	1	Resistor	8.2 ohm, 0.1W	1%	0603	Vishay Dale	CRCW06038R20FKEA	Yes	Yes
R9, R8	2	Resistor	0.022 ohm, 1W	5%	1206	Panasonic	ERJ-8BWJR022V	Yes	Yes
R7	DNP	-	-	-	-	-	-	-	-
TP1, 2, 3, 4	4	TERM SOLDER TURRET .219" .109"L	-	-	-	Mill-Max Manufacturing Corp.	2501-2-00-44-00-00-07-0	Yes	Yes
TP5 thru TP17	13	PIN INBOARD .042" HOLE 1000/PKG	-	-	-	Vector Electronics	K24C/M	Yes	Yes
U1	1	Automotive Non-Sync Boost Controller	-	-	-	ON Semiconductor	NCV887601	No	Yes