



## Bill of Materials for the NCV8872SEPGVEB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1, C6	2	CAP CER 0.1UF 50V 10% X7R 0805	100nF	10%	0805	TDK Corporation	CGA4J2X7R1H104K125AA	Yes	Yes
C2	1	CAP 100UF 50V ELECT FC RADIAL	100uF	20%	FCA CAP10X12p	Panasonic - ECG	FEU-FC1H101	No	Yes
C3	1	CAP ALUM 56UF 50V 20% RADIAL	56uF	20%	FCA CAP6P3X11	Chemi-Con	EKZE500ELL560MF11D	No	Yes
C4	1	CAP CER 4.7UF 50V 10% X7R 1210	4.7uF	10%	1210	Murata Electronics	GRM32ER71H475KA88L	Yes	Yes
C5	DNP	-	-	-	1210	-	-	-	Yes
C7	1	CAP CER 1UF 16V X7R 10% 0603	1uF	10%	0603	Murata Electronics	GCM188R71C105KA64D	Yes	Yes
C8	1	CAP CER 1800PF 50V 5% NPO 0603	1800pF	5%	0603	TDK Corporation	CGA3E2C0G1H182J080AA	Yes	Yes
C9	1	CAP CER 0.022UF 16V 10% X7R 0603	22000pF	10%	0603	Murata Electronics	GRM188R71C223KA01D	Yes	Yes
C10, C11, C12	3	CAP POLY ALUM 47UF 16V SMD	47uF	20%	CG CAP5X6	Nichicon	PCG1C470MCL1GS	No	Yes
C13	1	CAP CER 1UF 50V X7R 1206	1uF	10%	1206	Murata Electronics	GCM31MR71H105KA55L	Yes	Yes
C14	1	CAP CER 470PF 50V 5% NPO 0603	470pF	5%	0603	Murata Electronics	GCM1885C1H471JA16D	Yes	Yes
C15	DNP	-	-	-	0603	-	-	-	Yes
D1	1	60 V, 3.0 A Schottky Rectifier DPAK	60V / 3A	N/A	DPAK3_DMD	ON Semiconductor	MBRD360G	No	Yes
D2, D3	2	DIODE SCHOTTKY 40V 1A SOD123FL	40V / 1A	N/A	SOD_123	ON Semiconductor	MBR140SFT1G	No	Yes
L1	1	High Temp SMT Power Inductor 2.3A	22uH, 2.3A	20%	COIL_MSS1260	Coilcraft Inc	MSS1246T-223ML	No	Yes
L2	1	High Temp SMT Power Inductor 1.9A	22uH, 1.9A	20%	COIL_MSS1038	Coilcraft Inc	MSS1038T-223ML	No	Yes
Q1	1	MOSFET N CH 60V DPAK-4	60V / 38A	N/A	DPAK3_DMD	ON Semiconductor	NVD5865NLT1G	No	Yes
R1	1	RES 0.0 OHM 1/8W JUMP 0805 SMD	0	N/A	0805	Vishay/Dale	CRCW08050000Z0EA	Yes	Yes
R2	1	RES .03 OHM 1W 1% 1206 SMD	0.03	1%	1206	TT Electronics/Welwyn	LRMAM1206-R03FT5	Yes	Yes
R3	1	RES 1.00 OHM 1/8W 1% 0805 SMD	1	1%	0805	Vishay/Dale	CRCW08051R00FKEA	Yes	Yes
R4	1	RES 90.9K OHM 1/10W 1% 0603 SMD	90.0K	1%	0603	Yageo	RC0603FR-0790K9L	Yes	Yes
R5	1	RES 10.0K OHM 1/10W 1% 0603 SMD	10.0K	1%	0603	Rohm Semiconductor	MCR03EZPFX1002	Yes	Yes
R6	1	RES 10.0 OHM 1/10W 1% 0603 SMD	10	1%	0603	Yageo	RC0603FR-0710RL	Yes	Yes
R7	1	RES 3.01K OHM 1/10W 1% 0603 SMD	3.01K	1%	0603	Vishay/Dale	CRCW06033K01FKEA	Yes	Yes
R8	1	RES 15.0 OHM 1/10W 1% 0603 SMD	15	1%	0603	Vishay/Dale	CRCW060315R0FKEA	Yes	Yes
R9	1	RES 0.0 OHM 1/10W JUMP 0603 SMD	0	N/A	0603	Vishay/Dale	CRCW06030000Z0EA	Yes	Yes
TP1, 7, 14, 16, 17, 20	6	PIN INBOARD .042" HOLE 1000/PKG	N/A	N/A	TP	Vector Electronics	K24C/M	Yes	Yes
TP2, 3, 5, 6, 8, 9, 15, 18	DNP	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
TP10, 11, 12, 13	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
U1	1	Automotive Non-Sync Boost Controller	N/A	N/A	SOIC8_N_ADJ	ON Semiconductor	NCV887200	No	Yes
Mounting Feet	4	BUMPON HEMISPHERE .44X.20 BLACK	N/A	N/A	0.44 inch circle	3M	SJ-5003 (BLACK)	Yes	Yes