



## Bill of Materials for the NCV8842PWGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	Ceramic	1uF	10%	0603	Panasonic	ECJ-1VB0J105K	Yes	Yes
C2	1	Electrolytic	330uF	20%	G	Panasonic	EEVEC1V331P	Yes	Yes
C3	1	Tantalum	100uF	10%	7343H	AVX	TAJE107K016R	Yes	Yes
C4,C5	2	Ceramic	0.1uF	10%	0603	Panasonic	ECJ-1VB1C104K	Yes	Yes
D1	1	Diode (fast switching)	-	-	SOD-123	ON Semiconductor	MBRM130LT3	No	Yes
D3	1	Diode (Schottky)	2A	-	SMB	ON Semiconductor	MBRS240T3	No	Yes
R1	1	Resistor	97.6Ω	1%	0603	Panasonic	ERJ-3EKF97R6V	Yes	Yes
R2	1	Resistor	100Ω	1%	0603	Panasonic	ERJ-3EKF1000V	Yes	Yes
R3	1	Resistor	162Ω	1%	0603	Panasonic	ERJ-3EKF1620V	Yes	Yes
R4	1	Resistor	294Ω	1%	0603	Panasonic	ERJ-3EKF2940V	Yes	Yes
R5	1	Resistor	10Ω	5%	0603	Panasonic	ERJ-3GEYJ100V	Yes	Yes
R6	1	Resistor	100kΩ	5%	0603	Panasonic	ERJ-3GEYJ104V	Yes	Yes
L1	1	Inductor	27uH	20%	Type L	Würth	744771127	No	Yes
U1	1	Controller	-	-	SO-16W	ON Semiconductor	NCV8842	No	Yes
J1-J8	8	Test Points	-	-	-	Vector	K24C/M	Yes	Yes
BR1,2,3	3	Jumpers	Connector Header	-	-	Molex/Moldom	22-28-4020	Yes	Yes