



## Bill of Materials for the NCV885301GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	CAP CER 0.1UF 50V 10% X7R 0603	0.1uF	10%	603	Murata Electronics North America	GCM188R71H104KA57D	Yes	Yes
C2, C3, C4	3	CAP CER 10UF 50V 20% X7S 1210	10uF	20%	1210	Taiyo Yuden	UMK325C7106MM-T	Yes	Yes
C5	1	CAP CER 6800PF 16V 5% 0603	6800pF	5%	603	Taiyo Yuden	EMK107SD682JA-T	Yes	Yes
C6	1	CAP CER 470PF 25V 5% NPO 0603	470pF	5%	603	AVX Corporation	06033A471JAT2A	Yes	Yes
C7	1	CAP TANT 100UF 10V 10% 2917	100uF	10%	EIA_D	Kemet	T495D107K010ATE100	Yes	Yes
C8	1	CAP CER 0.1UF 10V 10% X7R 0603	0.1uF	10%	603	Kemet	C0603C104K8RACTU	Yes	Yes
D1	1	DIODE SCHOTTKY 40V 3A SMA	40V	3A	SMA	ON Semiconductor	MBRA340T3G	No	Yes
L1	1	15uH 3.7A Power SMT Inductor High Temp	15uH	3.7A	XAL5050-153	Coilcraft Electronics	XAL5050-153MEB	No	Yes
Q1	1	MOSFET PWR P-CH 60V 5.7A 8-WDFN	N/A	N/A	NTTFS5116PL	ON Semiconductor	NTTFS5116PLTAG	No	Yes
R1	1	RES 10.0K OHM 1/10W 1% 0603 SMD	10.0K	1%	603	Vishay/Dale	CRCW060310K0FKEA	Yes	Yes
R2	1	RES .03 OHM 1/4W 1% 0805 SMD	30mΩ	1%	805	Vishay/Dale	WSL0805R0300FEA18	No	Yes
R3, R5	2	RES 8.06K OHM 1/10W 1% 0603 SMD	8.06K	1%	603	Vishay/Dale	CRCW06038K06FKEA	Yes	Yes
R4	1	RES 42.2K OHM 1/10W 1% 0603 SMD	42.2K	1%	603	Vishay/Dale	CRCW060342K2FKEA	Yes	Yes
R6	1	NO POP			603			Yes	Yes
TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11	9	PIN INBOARD .042" HOLE 1000/PKG	N/A	N/A	TP	Vector Electronics	K24C/M	Yes	Yes
R4	1	Resistor, 1/8W SMD	100 ohms	0.05	SMD 805	AVX, Vishay, Dale	TBD	Yes	Yes
R1, R5	2	Resistor, 1/8W SMD	2K	0.05	SMD 805	AVX, Vishay, Dale	TBD	Yes	Yes
L1	1	Inductor (EMI choke)	820 uH or 1 mH		LS=5mm, Dia=7.5mm	Würth Magnetics	7447728215	Yes	Yes
L2	1	Output Inductor	1.5 mH, 500mA		12mm x 12mm SMD	Würth	7687709152	Yes	Yes
CF1, CF2 *	2	CAP CER 0.1UF 50V X7R 1206	0.1uF	10%	1206	Murata Electronics North America	GCM319R71H104KA37D	Yes	Yes
LF1 *	1	FIXED IND 1UH 2.5A 75 MOHM SMD	1.0uH	30%	WURTHSMALLSMDL	Würth Electronics Inc	78438323010	Yes	Yes
U1	1	Auto Grade Non-Sync Buck Controller	N/A	N/A	SOIC-8	ON Semiconductor	NCV885301DR2G	No	Yes