



Bill of Materials for the NCV8853GEVB 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%	0603	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%	0603	Taiyo Yuden	EMK107SD682JA-T	Yes	Yes
C6	1	CAP CER 470PF 25V 5% NP0 0603	470pF	5%	0603	AVX Corporation	06033A471JAT2A	Yes	Yes
C7	1	CAP TANT 100UF 10V 10% 2917	100uF	10%	EIA_D	Kemet	T495D107K010ZTE100	Yes	Yes
C8	1	CAP CER 0.1UF 10V 10% X7R 0603	0.1uF	10%	0603	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	4%	XAL5050-153	Coilcraft Electronics	XAL5050-153MEB	No	Yes
Q1	1	MOSFET PWR P-CH 60V 20A 8-WDFN	-	-	NTTFS5116PL	ON Semiconductor	NTTFS5116PLTAG	No	Yes
R1	1	RES 10.0K OHM 1/10W 1% 0603 SMD	10.0K	1%	0603	Vishay/Dale	CRCW060310K0FKEA	Yes	Yes
R2	1	RES .03 OHM 1/4W 1% 0805 SMD	30mΩ	1%	0805	Vishay/Dale	WSL0805R0300FEA18	No	Yes
R3, R5	2	RES 8.06K OHM 1/10W 1% 0603 SMD	8.06K	1%	0603	Vishay/Dale	CRCW06038K06FKEA	Yes	Yes
R4	1	RES 42.2K OHM 1/10W 1% 0603 SMD	42.2K	1%	0603	Vishay/Dale	CRCW060342K2FKEA	Yes	Yes
R6	DNP	DNP	-	-	0603	-	-	Yes	Yes
TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10	9	PIN INBOARD .042" HOLE 1000/PKG	-	-	TP	Vector Electronics	K24C/M	Yes	Yes
U1	1	Auto Grade Non-Sync Buck Controller	-	-	SOIC-8	ON Semiconductor	NCV885300D1R2G	No	Yes