



Bill of Materials for the NCV8871FLYGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	CAP CER 1UF 16V X7R 0603	1uF	10%	0603	Murata Electronics North America	GRM188R71C105KA12D	Yes	Yes
C2, C3	2	CAP ALUM 220UF 50V 20% RADIAL	220uF	20%	CAP_RAD_10X16	United Chemi-Con	EKZE500ELL221MJ16S	No	Yes
C4	1	CAP CER .01UF 50V X7R 0603	10000pF	10%	0603	Murata Electronics North America	GCM188R71H103KA37D	Yes	Yes
C9, C10	2	CAP ALUM 330UF 50V 20% RADIAL	330uF	20%	CAP_RAD_10X16	United Chemi-Con	EKZE500ELL331MJ25S	No	Yes
C11, C15, C16	3	CAP CER .1UF 50V 10% X7R 0805	100nF	10%	0805	Murata Electronics North America	GRM21BR71H104KA01L	Yes	Yes
C14	1	CAP CER 330PF 50V COG 0603	330pF	10%	0603	Murata Electronics North America	GCM1885C1H331JA16D	Yes	Yes
C17	1	CAP CER 10000PF 50V 10% X7R 1206	10000pF	10%	1206	Murata Electronics North America	GRM319R71H103KA01D	Yes	Yes
C18	1	CAP 330PF 50V CERAMIC X7R 1206	330pF	10%	1206	Yageo	CC1206KRX7R9BB331	Yes	Yes
D1	1	DIODE SCHOTTKY 60V 3A DPAK	60V / 3A	N/A	MOS_DPAK	ON Semiconductor	MBRD360T4G	No	Yes
D2, D3	2	DIODE SCHOTTKY 40V 1A SOD123FL	40V / 1A	N/A	SOD_123	ON Semiconductor	MBR140SFT1G	No	Yes
D4	1	DIODE SWITCHING 100V SOD-123	100V / 0.2A	N/A	SOD_123	ON Semiconductor	MMSD4148T3G	No	Yes
J1	1	CONN HEADER 4POS R/A 1.5MM TIN	N/A	N/A	4PINRAHEADER	TE Connectivity	292206-4	No	Yes
L1	1	Inductor	6.8uH	N/A	HP4-0075L	Coilcraft Inc	MA5332-AL	No	Yes
Q1	1	MOSFET N-CH 60V 30A DPAK	60V / 30A	N/A	MOS_DPAK	ON Semiconductor	NTD5413NT4G	No	Yes
R1	1	RES 0.027 OHM 3W 1% 3015 SMD	0.027	3W	3015	Susumu	KRL7638-C-R027-F-T1	No	Yes
R2	1	RES 10.0K OHM 1/10W 1% 0603 SMD	10.0K	0.01	0603	Vishay/Dale	CRCW060310K0FKEA	Yes	Yes
R3	1	RES 9.09K OHM 1/10W 1% 0603 SMD	9.09K	0.01	0603	Vishay/Dale	CRCW06039K09FKEA	Yes	Yes
R4	1	RES 1.00K OHM 1/10W 1% 0603 SMD	1.00K	1%	0603	Vishay/Dale	CRCW06031K00FKEA	Yes	Yes
R5	1	RES 499 OHM 1/4W 1% 1206 SMD	499	1%	1206	Vishay/Dale	CRCW1206499RFKEA	Yes	Yes
R6	1	RES 10.0 OHM 1/10W 1% 0603 SMD	10	1%	0603	Vishay/Dale	CRCW060310R0FKEA	Yes	Yes
R7	1	RES 100 OHM 1/4W 1% 1206 SMD	100	1%	1206	Vishay/Dale	CRCW1206100RFKEA	Yes	Yes
R10	1	RES 0.0 OHM 1/8W 0805 SMD	0	5%	0805	Vishay/Dale	CRCW08050000Z0EA	Yes	Yes
TP1, 5, 7, 14, 15, 16, 17, 20	8	CIRCUIT PIN PRNTD .020"D .425"L	N/A	N/A	SMALLTP	Mill-Max Manufacturing Corporation	3128-2-00-15-00-00-08-0	Yes	Yes
TP2, 3, 4, 6, 8, 9, 21	7	PIN INBOARD .042" HOLE 1000/PKG	N/A	N/A	TP	Vector Electronics	K24C/M	Yes	Yes
TP10, 11, 12, 13	4	CONN JACK BANANA UNINS PANEL MOU	N/A	N/A	BANANA	Emerson Network Power Conn Solutions	108-0740-001	No	Yes
U1	1	Automotive Non-Sync Boost Controller	N/A	N/A	SOIC8_N_ADJ	ON Semiconductor	NCV8871_00	No	Yes
U2	1	Automotive Non-Sync Boost Controller	N/A	N/A	10PINDFNP5	ON Semiconductor	NCV8872_00	No	Yes
MNT1, 2, 3, 4	4	Hex Spacer 4-40 1/2" Zinc Plated Steel	N/A	N/A	MOUNTHOLE125	McMaster-Carr	93620A432	Yes	Yes
-	4	Hex Nut 4-40 1/4" Zinc Plated Steel	N/A	N/A	MOUNTHOLE125	McMaster-Carr	90480A005	Yes	Yes