



Bill of Materials for the NCV51511SYNCKBUCKGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1,C6	2	EL-Cap	100 V / 470uF			SAMYOUNG	KMG 100 V / 470uF	YES	YES
C3,C8,C19,C28	4	MLCC 3216	100 V / 2.2uF			TDK	C3216X7S2A225K160AB	YES	YES
C4,C29	2	MLCC 3218	100 V / 100nF			TDK	C3218X7R2A104K160AA	YES	YES
C9	1	MLCC 2012	50 V / 2.2nF			TDK	C2012CH1H22J085AA	YES	YES
C10,C18	2	MLCC 2012	25 V / 10uF			TDK	C2012X5R1E106M125AB	YES	YES
C11	1	MLCC 2012	25 V / 12nF			TDK	C2012C0G1H123J060AA	YES	YES
C12	1	MLCC 1608	25 V / 100nF			TDK	C1608X8R1E104K080AA	YES	YES
C13	1	MLCC 2012	50 V / 330pF			TDK	CGJ4C2C0G2A331J060AA	YES	YES
C14	1	MLCC 2012	25 V / 220nF			TDK	C2012X8R1E224K125AA	YES	YES
C15,C16	2	MLCC 2012	50 V / 33pF			TDK	CGJ4C2C0G2A330J060AA	YES	YES
C17	1	MLCC 2012	50 V / 220pF			TDK	CGJ4C2C0G2A221J060AA	YES	YES
C20	1	MLCC 2012	25 V / 100nF			TDK	C2012X7R1H104K125AAE	YES	YES
C21,C25	2	MLCC 2012	25 V / 1uF			TDK	C2012X7R1E105K085AB	YES	YES
C22	1	MLCC 2012	25 V / 10nF			TDK	C2012C0G1E103J060AA	YES	YES
C24	1	MLCC 2012	25 V / 100pF			TDK	C2012 C0G1E101J060AA	YES	YES
C102	1	EL-Cap	16 V / 100uF			SAMYOUNG	16 V / 100uF	YES	YES
C2,C5,C7,C23,C26,C27,C30,C101,C103	9	OPEN	OPEN					YES	YES
D1,D3	2	SMD	100 V / 1A			DIODES	DFLS1100	YES	YES
D2	1	SOD 123	18 V Zener			ON	MMSZ18VCF	YES	YES
D4	1	SOD 124	56 V Zener			ON	MMSZ56V	YES	YES
L1	1	SMD	15uA			Colcraft	SER2918H-153	YES	YES
L2	1	SMD	220uA			TDK	CLF10040T-221M	YES	YES
Q1,Q2	1	POWER 56	100 V / 60 A			ON	FDMS86101	YES	YES
R1	1	CHIP R_2012	110K			Yageo	RC0805JR-07114RL	YES	YES
R2	1	CHIP_R_2012	33K			Yageo	RC0805JR-07333RL	YES	YES

R3	1	CHIP R_2012	1.8K			Yageo	RC0805JR-07182RL		YES	YES
R4, R8	2	CHIP R_2012	4.7K			Yageo	RC0805JR-074R7RL		YES	YES
R5	1	CHIP R_2012	3.9K			Yageo	RC0805JR-07392RL		YES	YES
R6	1	CHIP R_2012	1.5K			Yageo	RC0805JR-07152RL		YES	YES
R7	1	CHIP_R_2012	12K			Yageo	RC0805JR-07123RL		YES	YES
R9	1	CHIP_R_2012	20K			Yageo	RC0805JR-07203RL		YES	YES
R10	1	CHIP R_2012	4.7K			Yageo	RC0805JR-07472RL		YES	YES
R11, R12, R17	3	CHIP R_2012	10K			Yageo	RC0805JR-07103RL		YES	YES
R13, R14, R18	3	CHIP R_2012	10R			Yageo	RC0805JR-07100RL		YES	YES
R15, R21	2	CHIP R_3216	0.47R			Susumu	RL1632R-R0470-F		YES	YES
R16	1	CHIP R_2012	120K			Yageo	RC0805JR-07124RL		YES	YES
R19	1	CHIP R_2012	15K			Yageo	RC0805JR-07163RL		YES	YES
R20	1	CHIP R_1608	0R			Yageo	RC0603JR-07000RL		YES	YES
R22, R24	2	CHIP R_2012	0R			Yageo	RC0805JR-07000RL		YES	YES
U1	1					ON Semiconductor	NCP1034		NO	YES
U2	1					ON Semiconductor	NCV51511		NO	YES
U3	1					ON Semiconductor	NCV33163		NO	YES
JP1, JP2, JP3, JP4	4	Jumper				Hirose Electric	AZ-40PA-2.54DSA		YES	YES
J1, J2	2	Connector				MOLEX	5268-07		YES	YES
J3	1	Connector				MOLEX	5268-02		YES	YES