



Bill of Materials for the NCP1060BUCKGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	CAPACITOR	150 nF	10%	0805	Kemet	C0805C154K5RACTU	Yes	Yes
C2	1	ELECTROLYTIC CAPACITOR	220 μ F / 35 V	20%	THROUGH HOLE	Koshin	KZH-35V221MG4	Yes	Yes
C3, C7	2	CAPACITOR	100 nF	10%	0805	Kemet	C0805C104K5RACTU	Yes	Yes
C4, C5	2	ELECTROLYTIC CAPACITOR	2.2 μ F / 450 V	20%	THROUGH HOLE	United Chemi-Con	EKMG451ELL2R2MJC5S	Yes	Yes
C6	1	ELECTROLYTIC CAPACITOR	10 μ F / 25 V	20%	THROUGH HOLE	Koshin	KLH025V100ME3	Yes	Yes
C8, C9	2	CAPACITOR	39 nF	10%	0805	Kemet	C0805C393K5RACTU	Yes	Yes
CX1	1	CAPACITOR X2	NU	-	THROUGH HOLE	-	-	-	Yes
D1	1	DIODE	MMSD4148	-	SOD123	ON Semiconductor	MMSD4148T1G	No	Yes
D2, D3	2	DIODE	MURA160	-	SMA	ON Semiconductor	MURA160T3G	No	Yes
D4	1	ZENER DIODE	MMSZ15	5%	SOD123	ON Semiconductor	MMSZ15T1G	No	Yes
D5, D6, D7, D8	4	DIODE	MRA4007	-	SMA	ON Semiconductor	MRA4007T3G	No	Yes
IC1	1	SWITCHER	NCP1060	-	SOIC10	ON Semiconductor	NCP1060AD060R2G	No	Yes
L1	1	INDUCTOR	1.2 mH	10%	SMD/SMT	Würth Elektronik	768775312	No	Yes
L2	1	INDUCTOR	1.0 mH	10%	THROUGH HOLE	Würth Elektronik	768772102	No	Yes
LSP1, LSP2, LSP3, LSP4 (L,N,+12V,GND)	4	TERMINAL PIN	1.0 mm	-	THROUGH HOLE	Ettinger	13.14.119	Yes	Yes
R1	1	VARISTOR	820572711	-	THROUGH HOLE	Würth Elektronik	820572711	No	Yes
R2	1	RESISTOR	33 k Ω	1%	0805	Rohm Semiconductor	MCR10ERTF3302	Yes	Yes
R3	1	RESISTOR	20 Ω	5%	0613	Vishay BC Components	AC03000002009JAC00	Yes	Yes
R4	1	RESISTOR	NU	-	0805	-	-	-	Yes
R5	1	RESISTOR	13 k Ω	1%	0805	Rohm Semiconductor	MCR10ERTF1302	Yes	Yes
R6	1	RESISTOR	220 k Ω	1%	0805	Rohm Semiconductor	MCR10ERTF2203	Yes	Yes
BOARD STANDOFF	4	HEX STANDOFF M3 NYLON	8.0 mm	-	-	Harwin	R30-1610800	Yes	Yes