



Bill of Materials for the NCP1034BCK5VG Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
R9	1	Resistor SMD	1.2 kΩ	1%	1206	Vishay	CRCW12061K20FKEA	Yes	Yes
R5	1	Resistor SMD	3.9 kΩ	1%	1206	Vishay	CRCW12063K90FKEA	Yes	Yes
R3	1	Resistor SMD	4.7 kΩ	1%	1206	Vishay	CRCW12064K70FKEA	Yes	Yes
R2	1	Resistor SMD	5.6 kΩ	1%	1206	Vishay	CRCW12065K60FKEA	Yes	Yes
R1	1	Resistor SMD	16.9 kΩ	1%	1206	Vishay	CRCW120616K9FKEA	Yes	Yes
R6	1	Resistor SMD	20 kΩ	1%	1206	Vishay	CRCW120620K0FKEA	Yes	Yes
R11A, R11B, R11C, R11D, R11E	5	Resistor SMD	12 kΩ	1%	1206	Vishay	CRCW120612K0FKEA	Yes	Yes
R4	1	Resistor SMD	110 kΩ	1%	1206	Vishay	CRCW1206110KFKEA	Yes	Yes
R7, R8, R10	3	Resistor SMD	10 kΩ	1%	1206	Vishay	CRCW120610K0FKEA	Yes	Yes
R12A, R13, R14B, R15	4	Resistor SMD	0 Ω	1%	1206	Vishay	CRCW120600R0FKEA	Yes	Yes
R12B, R14A	2	Resistor SMD	NU	-	1206	-	-	-	-
C8	1	Ceramic Capacitor SMD	1.8 nF	10%	1206	Kemet	C1206C182K5RAC-TU	Yes	Yes
C6	1	Ceramic Capacitor SMD	12 nF	10%	1206	Kemet	C1206C123K5RACTU	Yes	Yes
C5	1	Ceramic Capacitor SMD	220 nF	10%	1206	Kemet	C1206C224K5RACTU	Yes	Yes
C7	1	Ceramic Capacitor SMD	330 pF	10%	1206	Yagec	CC1206KRX7R9BB331	Yes	Yes
C11, C12	2	Ceramic Capacitor SMD	NU	-	1206	-	-	Yes	Yes
C2, C3, C4, C10	4	Ceramic Capacitor SMD	100 nF	10%	1206	Kemet	C1206F104K1RACTU	Yes	Yes
C9A, C9B, C9C	3	Ceramic Capacitor SMD	47uF/16V	20%	1210	Kemet	C1210C476M9PAC7800	Yes	Yes
C1A, C1B	2	Ceramic Capacitor SMD	2.2 uF/100V	10%	1210	Murata	GRM32ER72A225KA35L	Yes	Yes
C1C, C1D, C1E, C1F	4	Ceramic Capacitor SMD	NU	-	1210	-	-	Yes	Yes
C9D, C9E	2	Electrolytic Capacitor	NU	-	8X15	-	-	Yes	Yes
L1	1	Inductor SMD	13 uH	20%	13.2X12.8	Würth	7443551131	Yes	Yes
D1	1	Switching Diode	MMSD4148	-	SOD123	On Semiconductor	MMSD4148T1G	Yes	Yes
D2	1	Zener Diode 500mW 12V	MMSZ4699	-	SOD123	On Semiconductor	MMSZ4699T1G	Yes	Yes
Q1	1	NPN Transistor	NU	-	DPAK	-	-	Yes	Yes
Q2	1	Power N-MOSFET	NTD3055	-	DPAK	On Semiconductor	NTD3055-150G	Yes	Yes
Q3	1	Power N-MOSFET	NTD24N06	-	DPAK	On Semiconductor	NTD24N06T4G	Yes	Yes
IO1	1	High voltage synchronous PWM buck controller	NCP1034	-	SOIC16	On Semiconductor	NCP1034DR2G	No	Yes
X1	1	Inlet Terminal Block	PCB 2 WAY	-	Pitch: 5mm	Lumbert	KRM 02	Yes	Yes
X2	1	Outlet Terminal Block	PCB 2 WAY	-	Pitch: 5mm	Lumbert	KRM 03	Yes	Yes