



## Bill of Materials for the NCP3101BUCK2 Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
R1	1	Resistor SMD	1.91kΩ	1%	805	VISHAY	CRCW08051K91FKEA	Yes	Yes
R2	1	Resistor SMD	1.3kΩ	1%	805	MULTICOMP	MC 0.1W 0805 1% 1K3	Yes	Yes
R3	1	Resistor SMD	1.47kΩ	1%	805	MULTICOMP	MC 0.1W 0805 1% 1K47	Yes	Yes
R5	1	Resistor SMD	2.2Ω	1%	805	MULTICOMP	MC 0.1W 0805 1% 2R2	Yes	Yes
R6	1	Resistor SMD	17.4kΩ	1%	805	VISHAY	CRCW080517K4FKEA	Yes	Yes
R7	1	Resistor SMD	0Ω	5%	805	MULTICOMP	MC 0.1W 0805 1% 0R0	Yes	Yes
R8	1	Resistor SMD	200Ω	1%	805	MULTICOMP	MC 0.1W 0805 1% 200R	Yes	Yes
RBOOST	1	Resistor SMD	3.3Ω	1%	805	MULTICOMP	MC 0.1W 0805 1% 3R3	Yes	Yes
RSNU	1	Resistor SMD	10Ω	1%	805	MULTICOMP	MC 0.1W 0805 1% 10R	Yes	Yes
C1, C2	2	Ceramic Capacitor	47 μF	10%	1210	Panasonic	ECJ-4YB1C476M	Yes	Yes
C14	1	Capacitor OS-CON	270 μF	20%	Axial	SANYO	16SP270M	No	Yes
C17	1	Capacitor OS-CON	820 μF	20%	Axial	SANYO	4SP820M	No	Yes
C5, C6	2	Ceramic Capacitor	100 μF	10%	1210	KEMET	C1210C107M9PAC7800	Yes	Yes
C11, C12	2	Ceramic Capacitor	220 nF	10%	805	KEMET	C0805C224K5RAC	Yes	Yes
C9	1	Ceramic Capacitor	330 nF	10%	805	AVX	0805YC334KAT2A	Yes	Yes
C10	1	Ceramic Capacitor	120 pF	5%	805	KEMET	C0805C121J5GAC	Yes	Yes
C13	1	Ceramic Capacitor	15 nF	10%	805	AVX	08055C153KAT2A	Yes	Yes
CBOOST	1	Ceramic Capacitor	NI	10%	805			Yes	Yes
CSNU	1	Ceramic Capacitor	470 pF	5%	805	KEMET	C0805C471J1GAC	Yes	Yes
D1	1	Diode	BAT54T1	-	SOD123	ON Semiconductor	BAT54T1G	No	Yes
D2, D3	2	Diode	MBRS140T3	-	SMB	ON Semiconductor	MBRS140T3G	No	Yes
L1	1	Coil	3.0uH	20%	MLC1555	Coilcraft	MLC1555-302MLB	No	Yes
IC1	1	IC	NCP3101C	-	QFN40	ON Semiconductor	NCP3101CMNTXG	No	Yes