



## Bill of Materials for the NCP3066 Buck 3A SOIC Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
R1;R2;R3;R4	4	Resistor	0.15R	1%	1206	Susumu	RL1632R-R150-F	Yes	Yes
R10	1	Resistor	10k	1%	1206	Rohm	MCR18EZH1002	Yes	Yes
R11;R15;R19	3	Resistor	1k	1%	1206	Rohm	MCR18EZH1001	Yes	Yes
R12	1	Resistor	12k	1%	1206	Rohm	MCR18EZH1202	Yes	Yes
R13	NU	Resistor	2k7	1%	1206	Rohm	MCR18EZH2701	Yes	Yes
R14	NU	Resistor	47k	1%	1206	Rohm	MCR18EZH4702	Yes	Yes
R16	1	Resistor	0.68R	5%	1210	Panasonic - ECG	ERJ-14RQJR68U	Yes	Yes
R17	1	Resistor	0.33R	5%	1210	Panasonic - ECG	ERJ-14RQJR33U	Yes	Yes
R18	NU	Resistor	0.22R	5%	1210	Panasonic - ECG	ERJ-14RQJR22U	Yes	Yes
C1	1	Capacitor	150uF/16V	20%	F8	SANYO	166SP150M	Yes	Yes
C1*	OPTION	Capacitor	220uF/35V	20%	10x12.5	Panasonic	EEUFC1V221	Yes	Yes
C2;C3;C6,C7	4	Capacitor	100nF	10%	1206	Kemet	C1206C104K5RACTU	Yes	Yes
C4	NU	Capacitor	100nF	10%	1206	Kemet	C1206C104K5RACTU	Yes	Yes
C5	1	Capacitor	1.8nF	10%	1206	Kemet	C1206C182K5RACTU	Yes	Yes
C8	1	Capacitor	150uF/16V	20%	F8	SANYO	166SP150M	Yes	Yes
C9	1	Capacitor	100pF	10%	1206	Vishay/Vitramon	VJ1206Y101KXEAT5Z	Yes	Yes
C10	1	Capacitor	2.2nF	10%	1206	Kemet	C1206C222K5RACTU	Yes	Yes
Q1	1	Power MOSFET -5A, -30V	NTF5P03T3	-	SOT-223	ON semiconductor	NTF5P03T3	No	Yes
Q2	1	Switching NPN Transistor	MMBT489LT1G	-	SOT-23	ON semiconductor	MMBT489LT1G	No	Yes
D2	1	1 A, 30 V Schottky Rectifier	MBR130T1G	-	SOD123	ON semiconductor	MBR130T1G	No	Yes
IC1	1	Switching Regulator	NCP3066DR2G	-	SOIC-8	ON semiconductor	NCP3066DR2G	No	Yes
D1	1	3 A, 30 V Schottky Rectifier	MBRS330T3G	-	SMC	ON semiconductor	MBRS330T3G	No	Yes
L1	1	Inductor	22uH	20%	Coilcraft	Coilcraft	DO5040H-223MLB	No	Yes
Jumper	1	RM 2.54 mm, PCB pin's (3)	Jumper - PCB pin's	-	2.54mm	Harwin	M20-9990305	Yes	Yes
Pin	1	Jumper, RM 2.54 mm	Jumper	-	2.54mm	Harwin	M7686-05	Yes	Yes
Pin	5	Pin 1.3mm	-	-	1.3mm	Various	Various	Yes	Yes

\* For Vin up to 30V, temperature range -55 to +105°C