



Bill of Materials for the NCP3066 Buck SOIC Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
R1	1	Resistor	0.15R	1%	1206	Susumu	RL1632R-R150-F	Yes	Yes
R2;R5	NU	Resistor	100R	1%	1206	Vishay/Dale	CRCW1206100RFKEA	Yes	Yes
R3	1	Resistor	1k	1%	1206	Rohm	MCR18EZPF1001	Yes	Yes
R4	1	Resistor	1.6R	5%	1210	Panasonic - ECG	ERJ-14RQJ1R6U	Yes	Yes
R6	1	Resistor	10k	1%	1206	Rohm	MCR18EZH1002	Yes	Yes
C1	1	Capacitor	180uF/16V	20%	F8	Sanyo	16SVP180MX	Yes	Yes
C1*	OPTION	capacitor	220uF/35	20%	F	Panasonic	EEF1V221AP	Yes	Yes
C2	1	Capacitor	100nF	10%	1206	Kemet	C1206C104K5RACTU	Yes	Yes
C3	1	Capacitor	2.2nF	10%	1206	Kemet	C1206C222K5RACTU	Yes	Yes
C4, C5, C6	3	Capacitor	100uF	20%	1210	TDK	C4532Y5V1A107Z	Yes	Yes
IC1	1	Switching Regulator	NCP3066	-	SOIC8	ON Semiconductor	NCP3066DR2G	No	Yes
D1	1	Diode	MBRS260	-	SMB	ON Semiconductor	MBRS260T3G	No	Yes
D2	1	Zener Diode	BZX84C8V2	-	SOT23	ON Semiconductor	BZX84C8V2LT1G	No	Yes
L1	1	Inductor	100uH	20%	DO3316	CoilCraft	DO3316P-104MLB	Yes	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 35V, temperature range -55 to +105°C