



Bill of Materials for the NCP1063BUCKGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C4 C8-9	3	Capacitor, Ceramic, SMD	0.15uF, 50V	10%	805	std	std	Yes	Yes
C7	1	Capacitor, Ceramic, SMD	0.33uF, 50V	10%	805	std	std	Yes	Yes
C1	1	Capacitor, Ceramic, NA	0.1uF, 450V	10%	1206	TDK	C3216X7T2W104	Yes	Yes
J1	1	std 1x3 pin connector, 2.54mm	--	--	2.54mm	std	std	Yes	Yes
D4	1	Switching Diode, 0.2A/100V	0.2A, 100V		SOD-123	ON Semiconductor	MMSD4148T1G	No	Yes
DNR1	1	Varistor, 10D471K	10D471K	10%	leaded type	Würth Electronic	820573011	Yes	Yes
D1	1	General Rectifier, 1A/1000V	1A, 1000V	--	SMA	ON Semiconductor	MRA4007T3G	No	Yes
D2-3	2	Ultrafast Rectifier, 1A/ 600V	1A, 600V	--	SMA	ON Semiconductor	MURA160T3G	No	Yes
FR	1	Fuse Resistor, 4.7 ohm, 1W, 5%	4.7ohm, 1W	--	Radiallead	std	std	Yes	Yes
U2	1	Positive Voltage Regulator	5V	--	TO-220	ON Semiconductor	MC7805CTG	No	Yes
U1	1	Buck Converter	--	--	DIP7	ON Semiconductor	NCP1063AP060G	No	Yes
L1	1	Fixed Inductor	1mH	5%	TH Type	Würth Electronic	7447462102	Yes	Yes
L2	1	Fixed Inductor	470uH	10%	TH Type	Würth Electronic	744772471	Yes	Yes
JR1	1	Resistor, Chip, 1/4W	0	1%	1206	std	std	Yes	Yes
R1	1	Resistor, Chip, 1/5W	15k	1%	805	std	std	Yes	Yes
R2	1	Resistor, Chip, 1/5W	15k	1%	805	std	std	Yes	Yes
R4	1	Resistor, Chip, 1/5W	20k	1%	805	std	std	Yes	Yes
R3	1	Resistor, Chip, 1/5W	56k	1%	805	std	std	Yes	Yes
C5	1	Size, 5mmx11mm	10uF, 25V	--	5mm (die.)x1	TEAPO	Electrolytic Capacitor	Yes	Yes
C6	1	Low Impedance	470uF, 16V	--	8mm (die.)x1	SAMXON	Electrolytic Capacitor	Yes	Yes
C2-3	2	Size, 8mmx11.5mm	6.8uF, 400V	--	8mm (die.)x1	Rubycon/TEAPO	Electrolytic Capacitor	Yes	Yes