

ON Semiconductor



Bill of Materials for the NCP3163BUCKGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
U1	1	Step-up/down/inverting Regulator	3.4A, 50-300KHz	-	SOIC16-W exposed pad	ON Semiconductor	NCP3163PWG	No	Yes
D1	1	Schottky Rectifier	2A, 40V	-	SMB	ON Semiconductor	MBRS2040LT3G	No	Yes
L1	1	Inductor	47uH, 4.5A	0.2	15.24mm x 18.03 mm	Coilcraft	DO5022P-473MLB	Yes	Yes
Cin	1	Input Capacitor	47uF, 35V, Tant	0.2	V (7361-38)	AVX	TPSV476M035R0060	No	Yes
Cout	1	Output Capacitor	100uF, 10V, Tant	0.2	E (7343-43)	AVX	TPSE107M010R0200	No	Yes
R1, Rt	2	Resistor, Timing	15.0K	0.01	1206	Vishay	CRCW120615K0FKEA	Yes	Yes
R2	1	Resistor	24.9K	0.01	1206	Vishay	CRCW120624K9FKEA	Yes	Yes
Ct	1	Timing Capacitor	270pF, 50V	0.1	1206	Kemet	C1206C271K5GACTU	Yes	Yes
Rsc	1	Sense Resistor	80M, 1W	0.01	2512	Vishay	WSL2512R0800FEB	Yes	Yes
Cb	1	Bootstrap Capacitor	4.7nF, 50V	0.1	1206	Vishay	VJ1206A472KXACW1BC	Yes	Yes
Rb	1	Bootstrap Resistor	200	0.01	1206	Vishay	CRCW1206200RFKEA	Yes	Yes
Terminal	2	Input/Output Terminals	-	-	2 pin, 156 mil	MOLEX	26-48-1025	Yes	Yes
TP	8	Test Point	-	-	100 mil	3M	929450-01-36	Yes	Yes
J	2	Jumper	-	-	100 mil	AMP / TYCO	382811-6	Yes	Yes
Feet	4	Stand-off Feet	-	-	-	SPC Tech	2565	Yes	Yes