

Bill of Materials for NCP3163 Boost Evaluation Board

ON Semiconductor



9/14/2006

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	RoHS Compliant
U1	1	Step-up/down/inverting Regulator	3.4 A, 50 - 300 kHz	NA	SOIC16-W Exposed Pad	ON Semiconductor	NCP3163PWG	No	Yes
D1	1	Schottky Rectifier	2 A, 40 V	NA	SMB	ON Semiconductor	MBRS2040LT3G	No	Yes
L1	1	Inductor	33 µH, 4.5 A	20%	15.24 mm x 18.54 mm	Coilcraft	DO5022P-333	Yes	Yes
Cin	1	Input Capacitor Aluminum Electrolytic	330 µF 25 V	20%	10.3x10.3 mm	United Chemi-Con	MKA25VC331MJ10TP	Yes	Yes
Cout 1	1	Output Capacitor Aluminum Electrolytic	330 µF, 35 V	20%	10x10 mm	Vishay	MAL215095002E3	Yes	Yes
R1	1	Resistor	42.2 kΩ, 1/4 W	1%	1206	Vishay	CRCW120642K2FKEA	Yes	Yes
R2	1	Resistor	2.32 kΩ, 1/4 W	1%	1206	Vishay	CRCW12062K32FKEA	Yes	Yes
Ct	1	Timing Capacitor	270 pF, 50 V	10%	1206	Kemet	C1206C271K5GAC-TM	Yes	Yes
Rt	1	Timing Resistor	15.0 kΩ, 1/4 W	1%	1206	Vishay	CRCW120615K0FKEA	Yes	Yes
Rsc	1	Sense Resistor	80 mΩ, 1W	1%	2512	Vishay	WSL2512R0800FEB	Yes	Yes
Terminal	2	Input/Output Terminals 2 pin	NA	NA	0.156"	MOLEX	26-48-1025	Yes	Yes
TP	5	Test Point	NA	NA	0.100"	3M	929450-01-36	Yes	Yes
Feet	4	Stand Off Feet	NA	NA	NA	SPC Technology	2565	Yes	Yes