

Bill of Materials for the NCP3063 Boost Evaluation Board

ON Semiconductor



12.5.2006

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1-2	2	Ceramic Chip Capacitor	1 uF	10%	1206	Kemet	C1206C105K3RACTU	YES	YES
CIN1-4	4	AE Capacitors ESR=0.073 50V	470 uF	20%	16mm X 16.5mm	Panasonic	EEVFK1H471M	YES	YES
CO1-4	4	AE Capacitors ESR=0.060 35V	470 uF	20%	12.5mm X 13.5mm	Panasonic	EEVFK1V471Q	YES	YES
CT	1	Ceramic Chip Capacitor	2.2 nF	10%	1206	Kemet	C1206C222K5RACTU	YES	YES
CTP, EN, GD, SE, SWN	5	Printed Circuit Pin	NA	NA	PIN	Mill-Max	3132-0-00-15-00-00-08-0	YES	YES
D2	1	Switching Diode	100 V, 200 mA	NA	SOD-123	ON Semiconductor	MMSD4148T1G	NO	YES
D3	1	Schottky Power Rectifier	3 A 30 V vf=.51V	NA	DPACK	ON Semiconductor	MBRD330G	NO	YES
L1	1	SMT Inductor	33 uH	10%	28mm X 28mm	Coilcraft	D1787-AL	YES	YES
Q1	1	General Purpose PNP Transistor	40 V, 200 mA	NA	SOT-23	ON Semiconductor	MMBT3906LT1G	NO	YES
Q2	1	Single N-Channel,	30 V, 35 A, 15 mΩ	NA	D-PACK	ON Semiconductor	NTD4815N-1G	NO	YES
Q3	1	General Purpose NPN Transistor	40 V, 200 mA	NA	SOT-23	ON Semiconductor	MMBT3904LT1G	NO	YES
R1 R5	2	SMT 1/8W Resistor	1.4 kΩ	1%	1206	BC Components	2312 396 71402	YES	YES
R2	1	SMT 1/8W Resistor	25.5 kΩ	1%	1206	BC Components	2312 396 72553	YES	YES
R4A R4B	2	SMT 1/8W Resistor	604 Ω	1%	1206	BC Components	2312 396 76041	YES	YES
RSC1-2	2	Current Sense Resistor	50 mΩ	1%	1206	Susumu Co Ltd	PRL1632-R050-F-T1	YES	YES
U1_NCP3063	1	150 kHz Switching Regulator	NA	NA	SOIC-8	ON Semiconductor	NCP3063BDR2G	NO	YES
VIN	1	4 PIN Connector	4	NA	4 pin	TYCO	1-640445-4	YES	YES
VOUT	1	4 PIN Connector	4	NA	4 PIN Connector	TYCO	1-640445-4	YES	YES