

Bill of Materials for NCP1030 Evaluation Board

ON Semiconductor



9/12/2006

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	RoHS Compliant
C1, C6	2	Ceramic Chip Capacitor	680 pF, 25 V	5%	0805	Vishay	VJ0805A681JXA	Yes	Yes
C2	1	Ceramic Chip Capacitor	0.033 μ F, 50 V	10%	0805	AVX Corporation	08055C333KAT2A	Yes	Yes
C3	1	Ceramic Chip Capacitor	22 μ F, 25 V	20%	1812	TDK	C4532X5R1E226M	Yes	Yes
C4	1	Ceramic Chip Capacitor	2.2 μ F, 25 V	20%	1812	TDK	C4532X7R1H225M	Yes	Yes
C5	1	Ceramic Chip Capacitor	2.2 μ F, 100 V	20%	1812	TDK	C4532X7R2A225M	Yes	Yes
C7, C8	2	Ceramic Chip Capacitor	0.01 μ F, 50 V	10%	0805	AVX Corporation	08055C103KAT2A	Yes	Yes
C9	1	Ceramic Chip Capacitor Optional	100 pF, 100 V	5%	0603	TDK	C1608C0G2A101J	Yes	Yes
C10	1	Ceramic Chip Capacitor	0.022 μ F, 250 V	10%	0805	TDK	C2012X7R2E223K	Yes	Yes
D1,D2	2	Shottky Power Rectifier	1 A, 60 V	NA	SMA	On Semiconductor	MBRA160T3G	No	Yes
D3	1	Ultrafast Power Rectifier Optional	1 A, 100 V	NA	SMA	On Semiconductor	MURA110T3G	No	Yes
J1-J4	4	Printed Circuit Pin	NA	NA	NA	Mill-Max	0912-0-00-80-00-00-03-0	Yes	Yes
L1	1	Surface Mount Inductor	2.2 μ H, 0.32 A	10%	1210	Vishay	IMC1210ER2R2K	Yes	Yes
R1	1	Thick Film Chip Resistor	1.00 M Ω , 1/8 W	1%	0805	Yageo	RC0805FR-071ML	Yes	Yes
R2	1	Thick Film Chip Resistor	45.3 k Ω , 1/8 W	1%	0805	Yageo	RC0805FR-0745K3L	Yes	Yes
R3	1	Thick Film Chip Resistor	34 k Ω , 1/8 W	1%	0805	Yageo	RC0805FR-0734KL	Yes	Yes
R4	1	Thick Film Chip Resistor	4.99 k Ω , 1/8 W	1%	0805	Yageo	RC0805FR-074K99L	Yes	Yes
R5	1	Thick Film Chip Resistor	1.30 k Ω , 1/8 W	1%	0805	Yageo	RC0805FR-071K3L	Yes	Yes
R6	1	Thick Film Chip Resistor	10.0 Ω , 1/8 W	1%	0805	Yageo	RC0805FR-0710RL	Yes	Yes
R7	1	Thick Film Chip Resistor	10.0 k Ω , 1/8 W	1%	0805	Yageo	RC0805FR-0710KL	Yes	Yes
R8	1	Thick Film Chip Resistor	0 Ω , 1/8 W	5%	0805	Vishay	CRCW08050000Z0EA	Yes	Yes
R9	1	Thick Film Chip Resistor Optional	499 Ω , 1/3 W	1%	1210	Vishay	CRCW1210499RFKEA	Yes	Yes
TX1	1	Flyback Transformer	120 μ H, 12 V	10%	10.16x12.07mm	Coilcraft	B0226-EL	Yes	Yes
U1	1	PWM Controller	NA	NA	Micro8	On Semiconductor	NCP1030DMR2G	No	Yes