

**ON Semiconductor**

## Bill of Materials for the NCP3065 Buck Evaluation Board

7/18/2007

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
U1	1	DC-DC controller	NCP3065	-	SOIC8	ON Semiconductor	NCP3065DR2G	No	Yes
C2	1	Capacitor	220uF / 50V	20%	G, 10x10.2	Panasonic	EEEVFK1H221P	Yes	Yes
C3	1	Ceramic Capacitor	1.8nF	10%	0805	AVX	08055F182K4Z2A	Yes	Yes
C5	1	Ceramic Capacitor	100pF	5%	0805	AVX	08051A101JAT2A	Yes	Yes
C6	1	Electrolytic Capacitor	100uF, 50V	20%	F, 8x10.2	Panasonic	EEEVFK1H101P	Yes	Yes
D1	1	Schottky Rectifier	1A, 40V	-	SMB	ON Semiconductor	MBRS140LT3G	No	Yes
D2	1	Switching Diode	MMSD4148	-	SOD123	ON Semiconductor	MMSD4148T1G	No	Yes
L1	1	Surface mount power inductor	47uF	20%	-	Coilcraft	DO3316P-473MLD	Yes	Yes
Q4	1	Power MOSFET, P Channel	NTF2955	-	SOT223	ON Semiconductor	NTF2955T1G	No	Yes
Q5	1	General purpose transistor	MMBT3904	-	SOT23	ON Semiconductor	MMBT3904LT1G	No	Yes
R1	1	Resistor	100 mΩ, 0.5 W	1%	2010	VISHAY DALE	WSL-2010 .1 1% EB E3	Yes	Yes
R8	1	Resistor	12 kΩ	1%	0805	PHYCOMP	232273461202	Yes	Yes
R9	1	Resistor	10 kΩ	1%	0805	PHYCOMP	232273461003	Yes	Yes
R10, R15	2	Resistor	1 kΩ	1%	0805	PHYCOMP	232273461002	Yes	Yes
R11	1	Resistor	1.2 kΩ	1%	0805	PHYCOMP	232273461202	Yes	Yes
R12	1	Resistor	680 mΩ	1%	1206	PHYCOMP	235051916807	Yes	Yes