

ON Semiconductor



Bill of Materials for the NCP3065 Boost 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
C1	1	Electrolytic Capacitor	100uF / 50V	20%	F, 8x10.2	Panasonic	EEEVFK1H101P	Yes	Yes
C2, C5	2	Ceramic Capacitor	100nF	10%	1206	Kemet	C1206F104K1RAC	Yes	Yes
C3	1	Electrolytic Capacitor	220uF / 50V	20%	G, 10x10.2	Panasonic	EEEVFK1H221P	Yes	Yes
C4	1	Ceramic Capacitor	2.2nF	10%	0805	AVX	08055F222KAT2A	Yes	Yes
D1	1	Schottky Rectifier	1A, 40V	-	SMB	ON Semiconductor	MBRS140LT3G	No	Yes
D2	1	Zener diode	36V	-	SOD123	ON Semiconductor	MM3Z36VT1G	No	Yes
L1	1	Surface mount power inductor	100uH	20%	-	Coilcraft	DO3340P-104MLD	Yes	Yes
Q2	1	General purpose transistor	BC817	-	SOT23	ON Semiconductor	BC817-40LT1G	No	Yes
R1	1	Resistor	150 mΩ, 0.5 W	1%	2010	VISHAY DALE	WSL-2010 .15 1% EB E3	Yes	Yes
R8	1	Resistor	1 kΩ	1%	0805	PHYCOMP	232273461002	Yes	Yes
R9	1	Resistor	680 mΩ	1%	1206	PHYCOMP	235051916807	Yes	Yes
R10	1	Resistor	1.2 kΩ	1%	0805	PHYCOMP	232273461202	Yes	Yes