

ON Semiconductor



Bill of Materials for the NCP1216A Evaluation Board

6/12/2007

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
L1	1	Inductor	10 uH	20%	SMD	Coilcraft	DS3316P-103ML	Yes	Yes
L2	1	Inductor	1 uH	20%	SMD	Coilcraft	DS3316P-102ML	Yes	Yes
L3	1	Inductor	100 uH	10%	SMD	Coilcraft	B0754-A	No	Yes
T1	1	Transformer	NA	NA	SMD	Coilcraft	C0972-A	No	Yes
T2	1	Transformer, Toroidal	Material T38, Ns = 38	NA	NA	Epcos	B64290P0037X038	No	Yes
C1-C3, C8, C11	6	Electrolytic Capacitor	22 uF, 100 V	20%	Radial	Panasonic	EEUFC2A220	Yes	Yes
C4	1	Electrolytic Capacitor	22 uF, 25 V	20%	Radial	Rubycon	25 ZA22M 5x7	Yes	Yes
C5	1	Ceramic Disc Capacitor	1.5 nF, 1 kV	10%	Disc	Vishay	228271114126	Yes	Yes
C6	1	Capacitor Y2 type	4.7nF, 300 Vac	20%	pitch: 10 mm	Arcotronics	R4131470DQ00M	Yes	Yes
C7	1	Ceramic Disc Capacitor	2.2 nF, 1 kV	10%	Disc	Vishay	228271137226	Yes	Yes
C12	1	X7R Chip Capacitor	10 nF, 50 V	10%	1206	AVX	478-1542-1-ND (Digi-Key)	Yes	Yes
R1	1	Chip Resistor	12 kΩ	5%	0805	Panasonic	P12KACT-ND (Digi-Key)	Yes	Yes
R2	1	Chip Resistor	1.8 kΩ	5%	0805	Panasonic	P1.8KACT-ND (Digi-Key)	Yes	Yes
R3	1	Chip Resistor	10 Ω	5%	0805	Panasonic	P10ACT-ND (Digi-Key)	Yes	Yes
R4	1	Chip Resistor	0 Ω	5%	1206	Panasonic	P0.0ECT-ND (Digi-Key)	Yes	Yes
R5	1	Axial Resistor	8.2 kΩ, 3 W	5%	Axial	Vishay	WR506170B8201J	Yes	Yes
R6	1	Axial Resistor	100 Ω, 3 W	5%	Axial	Vishay	WR506170B1000J	Yes	Yes
R7	1	Chip Resistor	560 Ω	5%	1206	Panasonic	P560ECT-ND (Digi-Key)	Yes	Yes
R8	1	Chip Resistor	27 kΩ	5%	0805	Panasonic	P27KACT-ND (Digi-Key)	Yes	Yes
R9	1	Chip Resistor	39 kΩ	5%	0805	Panasonic	P39KACT-ND (Digi-Key)	Yes	Yes
R10	1	Chip Resistor	4.3 kΩ	5%	0805	Panasonic	P4.3KACT-ND (Digi-Key)	Yes	Yes
D1	1	Diode, SMD	100 V	NA	SOD123	ON Semiconductor	MMSD914T1G	No	Yes
D2, D3	2	Diode, SMD	NA	NA	SMA	ON Semiconductor	MURA2403T3G	No	Yes
D4	1	Diode, SMD	200 V, 16 A	NA	D2PAK	ON Semiconductor	MURB1620CTG	No	Yes
Q1	1	N-Channel Mosfet	200 V	NA	D PAK	Fairchild Semiconductor	FQD18N20V2TF	Yes	Yes
IC1	1	Controller, SMPS	NA	NA	SO 8	ON Semiconductor	NCP1216AD100R2G	No	Yes
IC2	1	IC, Optocoupler	NA	NA	4-DIP	Sharp Microelectronics	PC817	No	Yes
IC3	1	Voltage Reg.	NA	NA	SOT 23	ON Semiconductor	TLV431BSN1T1G	No	Yes