



ON Semiconductor

## Bill of Materials for the NCP3170AGEVB Evaluation board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Name	Substitution Allowed	Lead Free
C3	1	SMT Ceramic Capacitor	0.01uF	±5%	603	TDK	C1608C0G1E103J	YES	YES
CC	1	SMT Ceramic Capacitor COG	6.8n	±5%	603	AVX	C1608C0G1E682J	YES	YES
CF	1	SMT Ceramic Capacitor	150pF	±5%	603	AVX	06035A151JAT2A	YES	YES
CHF	1	SMT Ceramic Capacitor	820pF	±5%	603	AVX	06035A821JAT2A	YES	YES
CP	1	SMT Ceramic Capacitor	NI	±5%	603			YES	YES
C2 C4-5	3	SMT Ceramic Capacitor	22uF	±20%	1210	Taiyo Yuden	TMK325B7226MM-TR	YES	YES
C6 C8	2	SMT Ceramic Capacitor	NI	±10%	1210			YES	YES
C1	1	Surface Mount E-Cap	NI	±20%	(8mm x 6.2)mm			YES	YES
C7	1	Surface Mount E-Cap	NI	±20%	(8.3 x 8.3)mm			YES	YES
LOUT	1	SMT Inductor	4.7uH	±20%	(10.2 x 10.2 x 6.4)mm	Würth	7447798470	YES	YES
U1	1	500 kHz Synchronous Switching Regulator	500 kHz	NA	SOIC8	ON Semiconductor	NCP3170A	NO	YES
R1	1	SMT Resistor	24.9k	±1.0%	603	Vishay / Dale	CRCW060324K9FKEA	YES	YES
R2	1	SMT Resistor	7.87k	±1.0%	603	Vishay / Dale	CRCW06037K87FKEA	YES	YES
R3	1	SMT Resistor	100k	±1.0%	603	Vishay / Dale	CRCW060310K0FKEA	YES	YES
R4	1	SMT Resistor	20R	±1.0%	603	Vishay / Dale	CRCW060320R0FKEA	YES	YES
RC	1	SMT Resistor	4.99k	±1.0%	603	Vishay / Dale	CRCW06034K99FKEA	YES	YES
RF	1	SMT Resistor	1k	±1.0%	603	Vishay / Dale	CRCW06031K00FKEA	YES	YES
EN	1	GENERIC 2 PIN SIP HEADER .100 CENTERS	100mill	NO	Through Hole	FCI	68001-102	YES	YES
BODE COMP FB GND GND_I GND_IN PG VIN VOUT VSW	10	PRINTED CIRCUIT PIN	NA	NA	100 Mill	MIL MAX	3128-1-00-15-00-00-08-0	YES	YES

3/24/2011

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