



## Bill of Materials for the NCP3125AGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C11	1	Ceramic Chip Capacitor	0.01uF	5%	603	TDK	C1608C0G1E103J	YES	YES
CP	1	Ceramic Chip Capacitor	1.5nF	5%	603	TDK	C1608C0G1H152J	YES	YES
CF	1	Ceramic Chip Capacitor	1nF	5%	603	AVX	0603ZC102JAT2A	YES	YES
C10	1	Ceramic Chip Capacitor	1uF	10%	603	AVX	06033D105KAT2A	YES	YES
CHF	1	Ceramic Chip Capacitor	820pF	5%	603	AVX	06035A821JAT2A	YES	YES
CC	1	Ceramic Chip Capacitor	82n	±10%	603	AVX	0603ZC823KAT2A	YES	YES
C8	1	Ceramic Chip Capacitor	DNP	-	603	-	-	YES	-
CBST	1	Ceramic Chip Capacitor	10nF	±20%	805	AVX	08055C103MAT2A	YES	YES
C9	1	Ceramic Chip Capacitor	1nF	20%	805	AVX	08053C102MAT2A	YES	YES
C4	1	Ceramic Chip Capacitor	22uF 10V	-20%, +80%	1210	Taiyo Yuden	LMK325F226ZN-T	YES	YES
C1-2	2	Ceramic Chip Capacitor	22uF 16V	±10%	1210	AVX	1210YD226KAT2A	YES	YES
C5	1	Ceramic Chip Capacitor	DNP	-	1210	-	-	YES	-
C3	1	Surface Mount E-Cap	470uF	±20%	8.00mm x 6.20mm	Panasonic	EEE-FP1C471AP	YES	YES
C7	1	Surface Mount E-Cap	470uF	±20%	(8.30 x 8.30)mm	Panasonic	EEE-FP1C471AP	YES	YES
C6	1	Surface Mount E-Cap	DNP	±20%	(10.3 x 10.3)mm	United Chemicon	EMZA160ADA471MHA0G	YES	YES
D1	1	Switching Diode	1A, 30V	-	SOD-123	ON Semiconductor	MBR130T1G	YES	YES
BST COMP FB GND GND_IN JX VIN VOUT VSW	9	PRINTED CIRCUIT PIN	-	-	100 Mill	MIL MAX	3132-0-00-15-00-00-08-0	YES	-
LOUT	1	INDUCTOR, SM	4.7uH	20%	(12.3 x 12.3 x 8.1)mm	Coilcraft	MSS1278T-472MLB	YES	YES
U1	1	Synchronous PWM Converter	350kHz 0.8V	NA	SOIC-8	ON Semiconductor	NCP3125ADR2G	NO	YES
RCR	1	SMT Resistor	DNP	NA	1206	-	-	YES	YES
RC	1	SMT Resistor	1.07k	±1.0%	603	Vishay / Dale	CRCW06031K07FKEA	YES	YES
R2	1	SMT Resistor	10k	±1.0%	603	Vishay / Dale	CRCW060310K0FKEA	YES	YES
R3	1	SMT Resistor	1R	±5.0%	603	Vishay / Dale	CRCW06031R00JNEA	YES	YES
R4	1	SMT Resistor	20R	±1.0%	603	Vishay / Dale	CRCW060320R0FKEA	YES	YES
RF	1	SMT Resistor	20k	±1.0%	603	Vishay / Dale	CRCW060320K0FKEA	YES	YES
R1	1	SMT Resistor	21.5k	±1.0%	603	Vishay / Dale	CRCW060321K5FKEA	YES	YES
RSET	1	SMT Resistor	21K	±1.0%	603	Vishay / Dale	CRCW060321K0FKEA	YES	YES
R9	1	SMT Resistor	100R	±1.0%	1206	Vishay / Dale	CRCW1206100RFKEA	YES	YES