



Bill of Materials for the NCP3155AGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
L1	1	Inductor	8.2uH	+/- 20%	10.9mm x 10mm x 9.3mm	Würth	7443330820	No	Yes
C1	1	Electrolytic Capacitor, 35V	220uF	+/- 20%	8mm X 15mm	United Chemi-con	EKZE350ELL221MH15D	Yes	Yes
C2, C3, C4	3	MLCC Surface Mount, 25V	10uF	+/- 10%	1210	TDK	C3225X5R1E106K	Yes	Yes
C5, C6, C15	3	MLCC Surface Mount, 25V	1.0uF	+/- 20%	0603	Taiyo-Yuden	587-1248-1-ND	Yes	Yes
C7	1	MLCC Surface Mount	12pF	+/- 5%	0603	TDK	C1608C0G1H120J	Yes	Yes
C8	1	MLCC Surface Mount	680pF	+/- 20%	0603	TDK	C1608X7R1H681M	Yes	Yes
C9	1	MLCC Surface Mount	DNP	-	0805	-	-	-	-
C10	1	MLCC Surface Mount	330pF	+/- 20%	0603	TDK	C1608X7R1H331M	Yes	Yes
C11, C12	2	MLCC Surface Mount	22uF	+/- 10%	1210	TDK	C3225X7R1C226K	Yes	Yes
C13	1	MLCC Surface Mount	4.7uF	+/- 10%	1206	TDK	C3216X5R1A475K	Yes	Yes
C14	1	Electrolytic Capacitor	DNP	-	8mm X 15mm	-	-	-	-
U1	1	NCP3155A, Sync-buck converter	-	-	SOIC-8	ON Semiconductor	NCP3155ADR2G	No	Yes
R1, R5	2	Resistor	0R0	-	0603	Vishay/Dale	CRCW06030000Z0EA	Yes	Yes
R2	1	Resistor	22.1k	+/- 1%	0603	Vishay/Dale	CRCW060322K1FKEA	Yes	Yes
R3	1	Resistor	DNP	-	0805	-	-	-	-
R4	1	Resistor	47k	+/- 1%	0603	Vishay/Dale	CRCW060347K0FKEA	Yes	Yes
R6	1	Resistor	DNP	-	0603	-	-	-	-
R7	1	Resistor	20	+/- 1%	0603	Vishay/Dale	CRCW060320R0FKEA	Yes	Yes
R8	1	Resistor	48.7k	+/- 1%	0603	Vishay/Dale	CRCW060348K7FKEA	Yes	Yes
R9	1	Resistor	15.4k	+/- 1%	0603	Vishay/Dale	CRCW060315K4FKEA	Yes	Yes
R10	1	Resistor	1.5k	+/- 1%	0603	Vishay/Dale	CRCW06031K50FKEA	Yes	Yes
GND	4	Test Point	Black	-	1.6mm	Keystone	5011	No	Yes
VIN	2	Test Point	Yellow	-	1.6mm	Keystone	5014	No	Yes
VOUT	2	Test Point	Red	-	1.6mm	Keystone	5010	No	Yes
BODE	1	Test Point	White	-	1.6mm	Keystone	5012	No	Yes
VSW	1	SMT Test Point	DNP	-	-	Keystone	5016	No	Yes