



Bill of Materials for the NCP1593BGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1-2, C4-5	4	6.3V, X5R, MLCC	22 uF	+/-20%	0805/1206	TDK	C2012X5R0J226M/1.25	YES	YES
C3	1	X5R, MLCC	1 uF	+/-20%	0603	TDK	C1608X5R0J105M	YES	YES
C6	0	X5R, MLCC	DNP	-	0603	-	-	YES	YES
C7	0	X5R, MLCC	DNP	-	0603	-	-	YES	YES
R1-2,R4	3	SMT Resistor	10k	+/-1%	0603	Vishay/Dale	CRCW060310K0FKEA	YES	YES
R3	1	SMT Resistor	0R0	-	0603	Vishay/Dale	CRCW06030000Z0EA	YES	YES
R5	0	SMT Resistor	DNP	-	0603	-	-	YES	YES
L1	1	DCR=20mΩ, I _{rms} =4.2A	2.2 uH	+/-20%	-	Würth	744777002	YES	YES
U1	1	Synchronous Buck Regulator	NCP1593B	-	DFN 3mmx3mm	ON Semiconductor	NCP1593AMNR2G	NO	YES
J1	1	TESTPOINT, TH	Yellow	-	63 MIL	KEYSTONE	5014	NO	YES
J3	1	TESTPOINT, TH	Red	-	63 MIL	KEYSTONE	5010	NO	YES
J2,J4,J10,J12	4	TESTPOINT, TH	Black	-	63 MIL	KEYSTONE	5011	NO	YES
J5-6, J13	3	TESTPOINT, TH	White	-	63 MIL	KEYSTONE	5012	NO	YES
J7,J8-9,J11,J14	0	TESTPOINT, TH	DNP	-	63 MIL	KEYSTONE	-	YES	YES
J17-20	0	SOLDER PAD	DNP	-	-	-	-	YES	YES
J21-24	0	STANDOFF,125MIL	DNP	-	-	-	-	YES	YES