



Bill of Materials for the NCP51810GAN1GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	CAP, SMD, CERAMIC, 50V, NPO	10pF		603	Yageo	CC0603JRNPO9BN100	Yes	Yes
C5	1	CAP, SMD, CERAMIC, 25V, X7R	470nF		603	Yageo	CC0603KRX7R8BB474	Yes	Yes
C2 C6 C9	3	CAP, SMD, CERAMIC, 25V, X7R	1uF		603	Samsung	CL10B105KA8NNNC	Yes	Yes
C3 C7	2	CAP, SMD, CERAMIC, 200V, X7R	0.1uF		1206	Kemet	C1206J104K2RAC7800	Yes	Yes
C4 C8	2	CAP, SMD, CERAMIC, 25V, X7R	100nF		603	Yageo	CC0603KRX7R8BB104	Yes	Yes
D1	1	Diode_Shottky, 150V, 500mA, 6.35ns RR			SOD-323	Rohm	RB558VYM150FHTR	Yes	Yes
J1	1	Header, SIP6 100mil pitch, Post-95mil, Mate- 230mil			Thru-Hole	Amphenol	68000-206HLF	Yes	Yes
J2-3	2	Testpin, Gold, 40mil, 28 mil solder length			Thru-Hole	Keystone	1352-1	Yes	Yes
Q1-2	2	GaN FET, 100V, E-mode, 90A, 7mOhm, Kelvin Source			7.55x4.59mm	GaN Systems	GS61008P	Yes	Yes
R4	1	RES, SMD, 1/10W	60.4k		603	Stackpole	RMCF0603FT60K4	Yes	Yes
R10	1	RES, SMD, 1/10W	0		603	Yageo	RC0603JR-070RL	Yes	Yes
R1-2 R5	3	RES, SMD, 1/10W	10k		603	Yageo	RC0603FR-0710KL	Yes	Yes
R3 R7 R9	3	RES, SMD, 1/10W	2		603	TE Connectivity	CPF0603F2R0C1	Yes	Yes
R6 R8	2	RES, SMD, 1/10W	10		603	Yageo	RC0603FR-0710RL	Yes	Yes
U1	1	High Speed Half Bridge GaN Driver, 200V			MLP 4 x4-15	ON Semiconductor	NCP51810	No	Yes