



Bill of Materials for the NCP81599GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C5,C6	0	Cap	DNP		SMC0603	Murata		Yes	Yes
C4,C7,C8	3	Cap	4.7uF		C0603	AVX	0603YD475MAT2A	Yes	Yes
C10,C11,C12,C13,C15,C16,C17	7	Cap	22uF		CSMI 1206	TDK	C3216X5R1V226M160AC	Yes	Yes
C14,C25	2	Cap	100uF		MU_10	KEMET	A767MU107M1VLA029	Yes	Yes
C18,C19,C21	3	Cap	0.1uF		SMC0603	AVX	0603YC104KAT2A	Yes	Yes
C20,C26	2	Cap	10nF		CSMI 0603	Murata	GRM188R71H103JA01	Yes	Yes
C9,C22	2	Cap	1nF		SMC0603	Murata	GRM188R71H102KA01D	Yes	Yes
C23	1	Cap	10pF		SMC0603	Murata	GRM1885C1H100JA01D	Yes	Yes
C24	1	Cap	1500pF		SMC0603	Murata	GCM188R71H152KA37D	Yes	Yes
D1,D2	2	Diode	NSR0240H		SOD-323	ON Semiconductor	NSR0240HT1G	No	Yes
D4,D5	2	Diode	NRVB0540T3G		SOD-124	ON Semiconductor	NRVB0540T3G	No	Yes
J6	1		2PIN 1ROW		JTHI HDR1R2PS	Molex	22-10-2021	Yes	Yes
J3	1		HEADER 5X2 5103308-1		5103308-1	MOLEX	702471051	Yes	Yes
L1	1		3.3 uH			WE	74439369033	Yes	Yes
NT3,NT4,NT5,NT6	4		<Value>		net tie	Not a part	Not a part	Yes	Yes
Q1,Q2,Q3,Q4	4		NTMFS4C10N		SO8_PTDSO8_S O8FL_COMBO_8MI L	ON SEMICONDUCTOR	NTMFS4C10N	No	Yes
R4,R5	2	Resistor	0.005		WSL2512	Vishay	WSL25125L000FEA	Yes	Yes
R6,R8	0	Resistor	DNP		SMR0603	Vishay	DNP	Yes	Yes
R7	1	Resistor	1		SMR0603	Bourns	CR0603-J/-1R0ELF	Yes	Yes
R3,R9,R10,R13,R14,R28,R37	5	Resistor	0		SMR0603	Bourns	CR0603-J/-000HLF	Yes	Yes
R11	1	Resistor	49.9		SMR0603	Panasonic	ERJ-U03F49R9V	Yes	Yes
R12,R15	2	Resistor	3.3		SMR0603	Yageo	RT0603FRE073R3L	Yes	Yes
R16,R17,R34,R35,R36	5	Resistor	10		SMR0402	Panasonic	ERJ-2RKF10R0X	Yes	Yes
R18	1	Resistor	90.9k		SMR0603	Panasonic	ERJ-3EKF9092V	Yes	Yes
R19,R24,R25,R26,R33	5	Resistor	10.0K		SMR0603	DALE	CRCW060310K0FKFA	Yes	Yes
R20,R22	2	Resistor	24.3k		SMR0603	Panasonic	ERJ-3EKF2432V	Yes	Yes
R21,R29(DNP)	1	Resistor	20.0K		SMR0603	DALE	CRCW060320K0FKFA	Yes	Yes
R23,R32	2	Resistor	20.5k		SMR0603	Vishay	CRCW060324K3FKFB	Yes	Yes
R27	0	Resistor	DNP		SMR0603	DNP	DNP	Yes	Yes
TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TP10,TP11,TP12,TP13,TP15,TP16,TP17,TP18,TP19,TP20,TP21,TP22,TP23,TP24,TP25,TP26,TP27,TP28,TP29,TP30,TP32,T33,T34,T35	33		TP		TPTHI_100R76	MILL-MAX	2305-2-00-01-00-00-07-0	Yes	Yes
T1,T2	2		2PIN/TERM BLK		TERM_BL_2PS	Molex	39889-0042	Yes	Yes
U1	1		NCP81599		usmm_qfn32r5x5			Yes	Yes