



Bill of Materials for the SEC-EPS-12V-APM19-GEVB Reference Design Board (MCU Board)

Designator(Main Board)	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	Tantalum Capacitors, CASE-D_7343, 33uF/25V				AVX	TAJD336K025RNJ	No	Yes
C2, C3, C6, C7, C8, C9, C12, C13, C14, C15, C20	11	MLCC, 0603, 100nF/50V				MURATA	GCM1885G1H104FA16D	No	Yes
C4, C5	2	MLCC, 1206, 10uF/25V				MURATA	GCM31CC71E106KA03K	No	Yes
C10, C11	2	MLCC, 0603, 12pF/50V				MURATA	GCM1885G1H120FA16D	No	Yes
C16, C17, C18, C19, C21, C22	6	MLCC, 0603, 10nF/50V				MURATA	GCM1885G1H103FA16D	No	Yes
D1	1	Schottky Diode, SMB				ONSEMI	NRVBS240LNT3G	No	Yes
LED1	1	19-217 SMD LED, 0603, Write				EVERLIGHT	19-217UWD/S365-2/TR8	No	Yes
LED2	1	19-21 SMD LED, 0603, Red				EVERLIGHT	19-21/RC6-FP1Q2L/3T	No	Yes
LED3	1	19-217 SMD LED, 0603, Green				EVERLIGHT	19-217/GHC-YR1S2/3T	No	Yes
LED4	1	19-21 SMD LED, 0603, Yellow				EVERLIGHT	19-21/Y2C-CP1Q2B/3T	No	Yes
P1	1	2.54mm Pitch Connector, 5P				CJT	A2541WV-5P	No	Yes
P2	1	2.54mm Pitch Connector, 4P				CJT	A2541WV-4P	No	Yes
P3, P4	2	2.54mm Pitch Connector, 20P				CJT	A2541WV-20P	No	Yes
R1, R2, R3, R4, R20	5	Resistance, 0603, 4.7K/1%				VISHAY	CRCW06034K70FKEA	No	Yes
R5, R6	2	Resistance, 0603, 0R/1%				VISHAY	CRCW06030000Z0EA	No	Yes
R7, R8, R9, R10	4	Resistance, 0603, 100K/1%				VISHAY	CRCW0603100KFKEA	No	Yes
R11, R12, R13, R14, R15, R16, R17, R18, R19	9	Resistance, 0603, 100R/1%				VISHAY	CRCW0603100RFKEA	No	Yes
U1	1	Positive Voltage Regulators, 5V/1A				ONSEMI	NCV7805BDTRKG	No	Yes
U2	1	MCU, Arm Cortex-M4F/M0+, LQFP64-10x10				NXP	FS32K144UAT0VLHT	No	Yes
Y1	1	Crystal, 5320, 16MHz				NDK	NX5320GA 16MHz	No	Yes