



Bill of Materials for the ONMCU5V0R1GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1,C2,C3,C4,C5,C6,C7,C8,C10,C11,C13,C14,C22	13	Ceramic Capacitor SMD	100nF, 50V, X7R	10%	CAP0603	KEMET	C0603C104K5RAC	YES	YES
C9,C12	2	Ceramic Capacitor SMD	2.2µF, 10V, X7R	10%	CAP0603	MURATA	GRM188R71A225KE15D	YES	YES
C15,C16	2	Ceramic Capacitor SMD	12pF, 50V, NP0	5%	CAP0603	KEMET	C0603C120J5GAC	YES	YES
C17,C18	2	Ceramic Capacitor SMD	4.7µF, 6.3V, X5R	10%	CAP0603	YAGEO	CC0603KRX5R5BB475	YES	YES
C19,C20,C21	3	Ceramic Capacitor SMD	10µF, 25V, X7R	10%	CAP1206	AVX	12063C106KAT2A	YES	YES
R1,R2,R3	3	Resistor SMD	0R, 0.1W	1%	R0603	YAGEO	RC0603JR-070RL	YES	YES
R4,R5	2	Resistor SMD	39R, 0.1W	1%	R0603	YAGEO	RC0603FR-0739RL	YES	YES
R6,R7	2	Resistor SMD	470R, 0.1W	5%	R0603	YAGEO	RC0603JR-07470RL	YES	YES
R8,R9,R10	3	Resistor SMD	10k, 0.1W	1%	R0603	YAGEO	RC0603FR-0710KL	YES	YES
R11	1	Resistor Array SMD	100R, 0.063W, 1206	5%	CRA3A4E	YAGEO	YC164-JR-07100RL	YES	YES
FL1	1	Filter (Feed Through Capacitor) SMD	0.1µF, 100V, X7S,	20%	1206	TDK	YFF31AH2A104MT0Y0N	YES	YES
L1	1	Ferrite Bead SMD	500mA, 0.25Ω		L0805	TAIYO YUDEN	BK2125HM601-T	YES	YES
J1	2	Vertical Pin Header 1x17 pin	17pins/2.54mm		17pins/2.54mm	MOLEX	22284171	YES	YES
J2	1	MINI USB B RECEPTABLE SMD			MINI USB B	MOLEX	67503-1020	YES	YES
J JTAG	1	STRAIGHT HEADER TH	Dual Row 2x5 Pin		2x5 Pin, 1.27mm	AMPHENOL	20021111-00010T4LF	YES	YES
J RST	1	SWITCH SPST-NO 5x3mm	50mA		swPB_mini	C & K COMPONENTS	KMR221G LFS	YES	YES
D1	1	LED DIODE GREEN SMD	20mA		D0603	AVAGO TECHNOLOGIES	HSMG-C191	YES	YES
D2	1	LED DIODE ORANGE SMD	20mA		D0603	AVAGO TECHNOLOGIES	HSMC-C191	YES	YES
D3	1	USB BUS ESD PROTECTION DIODE ARRAY	VBUS053AZ-HAF		LLP75-7L	VISHAY	LLP75-7L	YES	YES
Q1,Q2	2	MOSFET SMD	P-MOS/20V/2A		SOT23-GSD	ON SEMICONDUCTOR	FDN340P	YES	YES
U1	1	Microcontroller AVR32 32 bit	32BIT, 66MHZ		QFN64	ATMEL	AT32UC3C2512C-Z2UR	NO	YES
U2	1	LDO 5V	1000mA		SOT223	ON SEMICONDUCTOR	NCP1117S150T3G	YES	YES
U3	1	LDO 3.3V	800mA		SOIC8	ON SEMICONDUCTOR	MC33269DR2-3.3G	YES	YES
X1	1	Crystal 20MHz	20MHz,12pF,20ppm		3.2X2.5MM	QUANTEK	QC3220.0000F12B12M	YES	YES