



Bill of Materials for the MULTI-SENSE-GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1, C2	#	MLC capacitor 47µF 6.3V X5R 20% Wurth Electronics	47 µF			Würth Elektronik	885012107006	YES	Yes
C3, C4, C5, C9, C10, C11, C12, C13	#	MLC capacitor 100nF 16V X7R 10% Wurth Electronics	100 nF			Würth Elektronik	885012205037	YES	Yes
C6	#	MLC capacitor 100pF 10V NP0 5% Wurth Electronics	100 pF			Würth Elektronik	885012005013	YES	Yes
C7, C8	#	MLC capacitor 2µ2 10V X7T 20% Murata	2µ2			Murata	GRM155D71A225ME15D	YES	Yes
C14, C15	#	MLC capacitor 6.8pF 16V NP0 ±0.5pF Wurth Electronics	6p8			Würth Elektronik	885012005024	YES	Yes
CABLE1	#	flat ribbon cable 2x6pins 2.54mm pitch length 10-15cm socket-socket plug						YES	Yes
CON1	#	SMD header 14 pins 1.27 mm			1.27mm	Würth Elektronik	62101421021	YES	Yes
HEADER1	#	Header 2x6 100mil PTH Samtec, TSW series						YES	Yes
J1, J2, J3	#	Würth Elektronik 1.27mm Jumper 1x2 WR-PHD			1.27mm			YES	Yes
L1	#	WE MAPIS SMD Power Inductor 10µH 0.85 A Würth Elektronik	10µH			Würth Elektronik	74438335100	YES	Yes
M1	#	Electret condenser microphone 2pin SMD DB Unlimited						YES	Yes
PMOD1	#	Header right angle 2x6 pins PTH 2.54 mm pitch Würth Elektronik				Würth Elektronik	61301221021	YES	Yes
Q1, Q2	#	Transient Voltage Suppressor, Low Capacitance, for High Speed Data Lines ON Semiconductor				ON Semiconductor	NUP4202W1T2G	NO	Yes
Q3	#	I2C port expander 16 channels ON Semiconductor				ON Semiconductor	PCA9655EMTTXG	NO	Yes
Q4	#	Dual SPST Analog Switch Low Voltage Single Supply 20 Ohms ON Semiconductor				ON Semiconductor	NLAS323USG	NO	Yes
Q5	#	Microphone Pre-Amplifier with Digital Output ON Semiconductor				ON Semiconductor	FAN3850AUC16X	NO	Yes
Q6	#	Ultra low noise LDO with 2V8 ouput and enable ON Semiconductor				ON Semiconductor	NCP163AMX280TBG	NO	Yes
Q7	#	Digital 4-in-1 sensor with gas, humidity, pressure and temperature measurement Bosch Sensortec				Bosch Sensortec	BME680	YES	Yes
Q8	#	Digital Ambient Light Sensor with IR Detection and Dark Current Compensation I2C				ON Semiconductor	NOA1306CUTAG	NO	Yes
Q9	#	Intelligent 9-axis absolute orientation sensor				Bosch Sensortec	BNO055	YES	Yes
R1, R2, R8, R9, R14, R15	#	SMD thick film resistor 0R 0402 1A Panasonic	0R		402	Panasonic	ERJ2GE0R00X	YES	Yes
R3, R4	#	SMD thick film resistor 1R0 0402 5% 100 mW Panasonic	1R		402	Panasonic	ERJ2GEJ1R0X	YES	Yes
R5, R10, R11, R12	#	SMD thick film resistor 4k7 0402 1% 100 mW Panasonic	4k7		402	Panasonic	ERJ2RKF4701X	YES	Yes
R16	#	SMD thick film resistor 3k3 0402 1% 100 mW Panasonic	3k3		402	Panasonic	ERJ2RKF3301X	YES	Yes
R17, R18	#	SMD thick film resistor 2k7 0402 1% 100 mW Panasonic	2k7		402	Panasonic	ERJ2RKF2701X	YES	Yes
R19	#	SMD thick film resistor 10k 0402 1% 100 mW Panasonic	10k		402	Panasonic	ERJ2RKF1002X	YES	Yes
X1	#	XTAL 32.768kHz 10ppm 7pF Abracon	32.768 kHz 10ppm			Abracon	ABS07AIG-32.768kHz-7-1-T	YES	Yes
