





















Bill of Materials

PCB Design UM-1.PrjPcb Project UM-1.PrjPcb

Variant None

Report Date 27/12/2022

Designator	Quan	tity Description	Manufactu	ır Part Number	Supplier 1	Supplier Part Number 1	Supplier 2	Supplier Part Numbe
C1, C4	2	CAP CER 8PF 50V NP0 0402	Murata	GRM1555C1H8R0BA01	D Digi-Key	490-8230-2-ND		
C2, C3	2	CAP CER 10UF 25V X5R 0603	Murata	GRM188R61E106MA73	D Digi-Key	490-7202-2-ND		
C5	1	CAP CER 2.2UF 10V X5R 0402	Murata Electro	ni GRM155R61A225ME95	D Digi-Key	490-10452-2-ND		
C6, C7, C8, C9, C10	5	CAP CER 100NF 25V X5R 0402	Murata	GRM155R61E104KA87I	Digi-Key	490-5920-2-ND		
D1	1	LED GREEN DIFFUSED 0402 SMD	Avago Technol	lo HSMG-C280	Digi-Key	516-3066-2-ND		
J1	1	USB 3.1 Type C, Plug, Horizontal, SMT	Wurth	632712000112	Mouser	710-632712000112		
R1, R2, R3	3	RES SMD 5.1K OHM 5% 1/16W 0402	Yageo	RC0402JR-075K1L	Mouser	603-RC0402JR-075K1L		
R4	1	RES SMD 10K OHM 5% 1/16W 0402	Yageo	RC0402JR-0710KL	Mouser	603-RC0402JR-0710KL		
U1	1	32-bit MCU, 512KB Flash, 128KB RAM, USB	ST	STM32F411CEU6	Digi-Key	497-14907- ND 497-14907- ND 497-14907-ND	Mouser	511-STM32F411CEU6
U2	1	TVS ARRAY SOT666	ST	USBLC6-2P6	Digi-Key	497-5026-1-ND	Farnell	1295310
U3	1	3.3V 250mA Ultra Low Noise LDO	ST	LDLN025PU33R	Digi-Key	497-17003-2-ND	Mouser	511-LDLN025PU33R
U4, U5	2	MICROPHONE MEMS DIGITAL 12S OMNI	TDK	ICS-43434	Digi-Key	1428-1066-2-ND	Mouser	410-ICS-43434
Y1	1	CRYSTAL 12MHZ 12PF SMD	ECS	ECS-120-12-36Q-CWY-	T Digi-Key	XC2419CT-ND	Mouser	520-120-12-36Q-CWYT