

Bill Of Materials, EKSr Instrument, Rev B

2024-10-19

Qty	Part	Value	Package	Description	Manufacturer	Manufacturer Partno	Distributor	Distributor Partno	Comments	Cost, single qty
4	C1,C7,C10,C13	10u	CO603	CAPACITOR, European symbol	Murata Electronics	GRM188R61E106KA73J	Digikey	490-GRM188R61E106KA73JCT-ND		1.08
2	C2,C8	100n	CO603	Capacitor Ceramic, X7R, 0603	TDK Corporation	C1608X7R1E104K080AA	Digikey	445-1316-1-ND		0.2
5	C3,C4,C5,C6,C11	10n	CO603	Capacitor Ceramic, X7R, 0603	Kemet	CO603C103K5RACTU	Digikey	399-1091-1-ND		0.5
1	C9	1n5	CO603	Capacitor Ceramic, X7R, 0603	Samsung Electro	CL10B152KB8WPNC	Digikey	1276-6666-1-ND		0.1
1	C12	100u/10	CT3528	Capacitor Tantalum, 3528	AVX Corporation	P931A107KBA	Digikey	478-8195-1-ND		0.86
2	D1,D2	SL54AFL	DO221-AC	Shottky Diode, 40V, 5A, SMA_FL	Micro Commercial	SL54AFL-TP	Digikey	SL54AFL-TPMSCT-ND		1
1	DISP1	TFT_2.4_A	TFT_2.4_A	2.4" TFT LCD with Touch, ILI9341 Controller			HongKong CCD Limited		https://vi.aliexpress.com/item/3256806944734005.html	3.5
1	IC1	AOZ1284PI	SO8_EDP	EZBuckTM 4A Simple Adjustable Buck Regulator	Alpha & Omega Semiconductor	AOZ1284PI	Digikey	785-1689-1-ND		1.38
1	J1	DEBUG/PROG	MA03-1W	3x1 pos 0.1" pin header, RA	AdamTech	PH1RB-03-UA	Digikey	2057-PH1RB-03-UA-ND		0.12
1	L1	10uH	SPM6530	Inductor, 10uH, 4.2A, 86mR	TDK Corporation	SPM6530T-100M-HZ	Digikey	445-180110-1-ND		3.9
1	M1	ESP32-S3-WROOM	ESP32-S3-WROOM	ESP32-S3 WROOM module.	Espressif	ESP32-S3-WROOM-1-N16R8	Digikey	1965-ESP32-S3-WROOM-1-N16R8CT-ND		0.37
1	Q1	DMN3023L-7	SOT-23	MOSFET N-CH 30V 6.2A SOT23	Diodes Inc	DMN3023L-7	Digikey	DMN3023L-7DICT-ND		0.4
1	R1	1k	RO603	Resistor, 1%, 0603	Stackpole Electronics	RMCF0603FT1K00	Digikey	RMCF0603FT1K00CT-ND		0.1
4	R2,R3,R6,R8	10k	RO603	Resistor, 1%, 0603	Stackpole Electronics	RMCF0603FT10K0	Digikey	RMCF0603FT10K0CT-ND		0.1
1	R4	100k	RO603	Resistor, 1%, 0603	Stackpole Electronics	RMCF0603FT100K	Digikey	RMCF0603FT100KCT-ND		0.1
1	R5	31k6	RO603	Resistor, 1%, 0603	Stackpole Electronics	RMCF0603FT31K6	Digikey	RMCF0603FT31K6CT-ND		0.1
1	R7	47k	RO603	Resistor, 1%, 0603	Stackpole Electronics	RMCF0603FT47K0	Digikey	RMCF0603FT47K0CT-ND		0.1
1	R9	180k	RO603	Resistor, 1%, 0603	Stackpole Electronics	RMCF0603FT180K	Digikey	RMCF0603FT180KCT-ND		0.1
1	R10	11k8	RO603	Resistor, 1%, 0603	Stackpole Electronics	RMCF0603FT11K8	Digikey	RMCF0603FT11K8CT-ND		0.1
1	R11	787R	RO603	Resistor, 1%, 0603	Stackpole Electronics	RMCF0603FT787R	Digikey	RMCF0603FT787RCT-ND		0.1
2	SW1,SW2	BOOT, RESET	PTS820	Microminiature SMT Top Actuated Pushbutton	C&K	PTS820 J20M SMTR LFS	Digikey	CKN10505CT-ND		1.98
1		AK-H-15		Enclosure	SZOMK	AK-H-15	SZOMK Enclosure 03 Store	AK-H-15	https://vi.aliexpress.com/item/2251832638947727.html	5.26

Total (USD) 21.45