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Line #	ComponentType Capacitors	Name C0805C104J4RACTU	Description Capacitor SMD 0805	Designator C1, C2, C3, C6, C7, C8, C11,	Quantity	Manufacturer 1 KEMET	Manufacturer Part Number 1 C0805C104J4RACTU	Manufacturer Lifecycle 1 Volume Production	Supplier 1 Mouser	Supplier Unit Price 1 0.41344	Supplier Subtotal 1 4.13
	Capacitors	C0805C105J4RACTU	Capacitor SMD	C13, C14 C15	1	KEMET	C0805C105J4RACTU	Volume Production	Mouser	0.31871	0.31871
	Capacitors	C0805C220J4GACTU	0805 Capacitor SMD	C4, C5, C9, C10	4	KEMET	C0805C220J4GACTU	Volume Production	Mouser	0.24788	0.99154
	Capacitors	C1206C106J4RACTU	0805 Capacitor SMD	C12	1	KEMET	C1206C106J4RACTU	Volume Production	Mouser	2.37	2.37
	Capacitors	EEEFP1C100AR	1206 Capacitor; Alum Electrolytic; Cap 10 uF; Tol 20%; Vol-Rtg 16 VDC; SMT; 4x6.1; Cut Tape	C17	1	Panasonic	EEEFP1C100AR	Volume Production	Mouser	0.4338	0.4338
	Capacitors	EEEFP1C220AR	PANASONIC ELECTRONIC COMPONENTS EEEFP1C220AR SMD Aluminium Electrolytic Capacitor, Radial Can - SMD, 22 F, 16 V, 0.36 ohm, FP Series	C16	1	Panasonic	EEE-FP1C220AR	Volume Production	Mouser	0.41609	0.41609
	Connectors	43045-0806	Molex 2x4 SMD Right Angle	JM1	1	Molex	43045-0806	Volume Production	Mouser	3.07	3.07
	Connectors	43045-1006	Molex 2x5 SMD Right Angle	JM2, JM3	2	Molex	0430451006	Volume Production	Mouser	3	6
	Crystals & Oscillators	FOXSDLF/160-20	CRYSTAL 16.0M Hz 20PF SMD	X1, X2	2	Fox Electronics	FOXSDLF/160-20	Volume Production	Mouser	0.23903	0.47806
	DCDC	LD1117S33	STMICROELECT RONICS LD1117S33TR. LDO VOLTAGE REGULATOR, 3.3V, 0.8A, SOT-223-3	U10	1	STMicroelectronic s	LD1117533TR	Volume Production	Mouser	0.369	0.369
	Diodes	SMBJ5.0a	BOURNS - SMAJ5.0A - TVS Diode, SMAJ Series, Unidirectional , 5 V, 9.2 V, DO 214AC, 2 Pins	D1	1	Bourns	SMAJ5.0A	Volume Production			
	Drivers	TLC59108PWR	LED DRIVER, CONSTANT CURRENT, TSSOP-20; Device Topology/Core tant Current; No. of Outputs: Outputs: Outputs: Output Voltage: Driver Case Style:TSSOP: No. of Pins:20; Input Voltage Max:5.5V; Switching RoHS RO	U7, U8		Texas Instruments		Volume Production	Mouser	1.73	3.45
	Fuses	0154005DRT	Fuse 5A SMD IC CAN			Littelfuse	0154005.DRTL	Volume Production	Mouser	2.69	2.69
	Interface	MCP2515-I/SO MCP2562	CONTROLLER W/SPI 18SOIC Interface IC CAN SO-8 Microchip MCP2562ESN (Interface IC CAN SO-8	U3, U5		Microchip	MCP2515-I/SO MCP2562-E/SN	Volume Production Volume Production	Mouser	0.81	1.62
	Interface	MCP23017-E/SS	Interfaces). 16-Bit I/O Expander with Serial Interface		2	Microchip	MCP23017-E/SS	Volume Production	Mouser	1.12	2.23
	LED	150141M173100	Standard LEDs RGB	LED1, LED2, LED3, LED4, LED5, LED6	6	Wurth Electronics	150141M173100	Volume Production	Mouser	0.41609	2.5
	Miscellaneous	WF50BTIFGDHTV	Display HDMI for Rasp PI	U9	1						
	Resistors	CRCW08054K70FKEA	Resistor 0805 SMD	R3, R4, R5, R6, R7, R8, R9, R10	8	Vishay	CRCW08054K70FKEA	Volume Production	Mouser	0.05489	0.54889
	Resistors	CRCW080510K0FKEA	Resistor 0805 SMD	R1, R2, R11, R12, R21	5	Vishay	CRCW080510K0FKEA	Volume Production	Mouser	0.09	0.45
	Resistors	CRCW0805120RFKEA	Resistor 0805 SMD	R19, R20	2	Vishay	CRCW0805120RFKEA	Volume Production	Mouser	0.09	0.18
	Resistors	CRCW0805820RFKEA	Resistor 0805 SMD	R13, R14	2	Vishay	CRCW0805820RFKEA	Volume Production	Mouser	0.08853	0.17706
	Resistors	CRCW08050000Z0EA	Resistor 0805 SMD	R15, R16, R17, R18	4	Vishay	CRCW08050000Z0EA	Volume Production	Mouser	0.02125	0.21247
	Switches	MRX108-A	SWITCH ROTARY 2- 8POS 2A 125V	SW-A1, SW- B1, SW-C1	3	NKK Switches	MRX108-A	Volume Production	Mouser	12.44	37.32