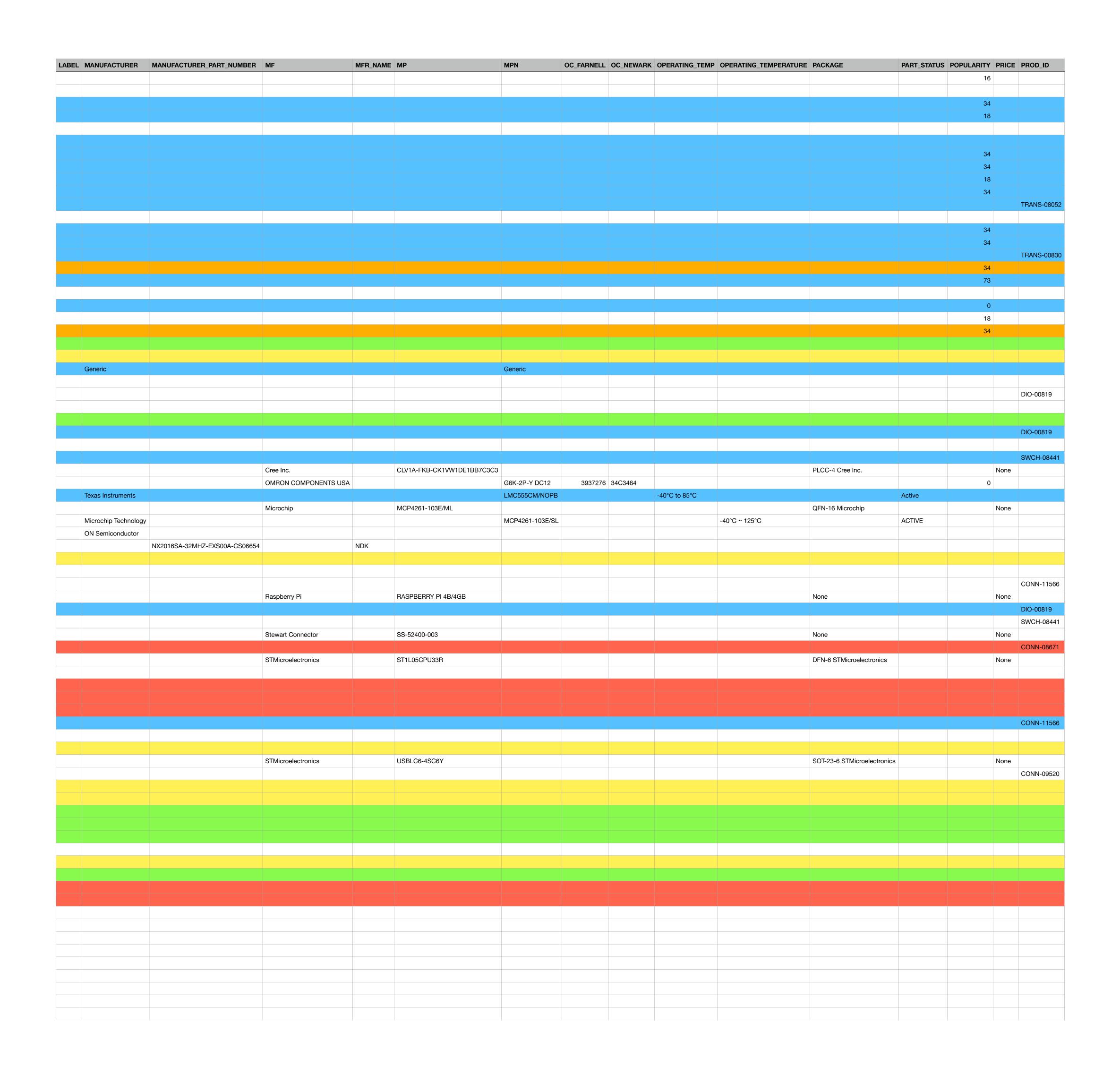
panda-2-BOM

Ohr David	Value	Basina	Deckers	panda-2-BOM	Link Manufacture	Manufacturer Dout Num
Qty Rev 1	Value 8 0.1uF	Device C-USC0402	Package C0402	Parts C5, C6, C7, C8, C9, C10, C11, C12	Link Manufacture https://www.digikey.com/en/products/detail/ Kyocera	Manufacturer Part Nun 0402YC104KAT2A
1		R-US_CHIP-0402(1005-METRIC)	RESC1005X40	R22	https://www.digikey.com/en/products/detail/ YAGEO	RC0402FR-07100RL
4		R-US_R0402	R0402	R17, R18, R19, R34	https://www.digikey.com/en/products/detail/ YAGEO	RC0402FR-07100RL
15 1	14 100nF	C-EUC0402	C0402	C2, C46, C47, C49, C51, C52, C53, C54, C55, C56, C57, C58, C59, C65, C67		0402YC104KAT2A
1	1 100nF	C-US_CHIP-0402(1005-METRIC)	CAPC1005X60	C38	https://www.digikey.com/en/products/detail/ Kyocera	0402YC104KAT2A
12 1	11 10k	R-US_CHIP-0402(1005-METRIC)	RESC1005X40	R3, R4, R5, R6, R7, R8, R9, R10, R11, R20, R21, R25	https://www.digikey.com/en/products/detail/ YAGEO	RC0402FR-0710KP
9	3 10k	R-US_R0402	R0402	R1, R2, R15, R16, R24, R27, R28, R29, R37	https://www.digikey.com/en/products/detail/ YAGEO	RC0402FR-0710KP
1	0 1k	R-US_R0402	R0402	R38	https://www.digikey.com/en/products/detail/ YAGEO	RC0402FR-071KP
6	5 1uF	C-EUC0402	C0402	C3, C48, C50, C61, C64, C66	https://www.digikey.com/en/products/detail/ Kyocera	04026C105KAT2A
1	0 2.4k	R-US_R0402	R0402	R32	https://www.digikey.com/en/products/detail/ YAGEO	RC0402FR-072K4L
3	0 200mA/40V	TRANS_PNP-PMBT3906 MMBT3906L	SOT23-3	Q9, Q10, Q11	https://www.digikey.com/en/products/detail/ Nexperia USA Inc.	PMBT3906,235
1	1 220	R-US_CHIP-0402(1005-METRIC)	RESC1005X40	R23	https://www.digikey.com/en/products/detail/ Stackpole Electronics Inc	RMCF0402JT220R
2	0 220	R-US_R0402	R0402	R35, R36	https://www.digikey.com/en/products/detail/ Stackpole Electronics Inc	RMCF0402JT220R
1	0 DNP	R-US_R0402	R0402	R26	DNP	
9	8 220mA/50V/3.5Ω	MOSFET-NCH-BSS138	SOT23-3	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q12	https://www.digikey.com/en/products/detail/ Micro Commercial Co	BSS138-TP
2	2 360	R-US_R0402	R0402	R12, R13	https://www.digikey.com/en/products/detail/ YAGEO	RC0402FR-07360RL
2	1 4.7uF	C-EUC0603	C0603	C1, C60	https://www.digikey.com/en/products/detail/ Samsung Electro-Mechanics	CL10A475KO8NNNC
2	2 4.7uF	C-US_CHIP-0603(1608-METRIC)	CAPC1608X85	C39, C40	https://www.digikey.com/en/products/detail/ Samsung Electro-Mechanics	CL10A475KO8NNNC
1	0 4040D	4040D	SO16	IC2	https://www.digikey.com/en/products/detail/ Nexperia USA Inc.	74HC4040D,653
2	2 5.6p	C-EUC0402	C0402	C69, C70	https://www.digikey.com/en/products/detail/ KYOCERA AVX	04025A5R6BAT2A
4	1 560	R-US_R0402	R0402	R14, R30, R31, R33	https://www.digikey.com/en/products/detail/ YAGEO	RC0402FR-07560RL
1	1 5V for 3v3 Reg	JUMPER-SMT_2_NC_PASTE_SILK	SMT-JUMPER_2_NC_PASTE_SILK	JP1	Solder Solder	Solder
1	0 5VOUT_S	TESTPOINT_TPS-SMD-10SN	TESTPOINT_SMD-10SN	TP4	DNP	
	0 74HC00_SOIC	74HC00_SOIC	SOIC127P600X175-14N	IC4	https://www.digikey.com/en/products/detail/ onsemi	MC74HC00ADR2G
1	1 ACC	CONN_025MM	SCREWTERMINAL-5MM-2	J12	https://www.digikey.com/en/products/detail/ CUI Devices	TB002-500-02BE
1	1 ACC_EN	LED-RED0603	LED-0603	D3	https://www.digikey.com/en/products/detail/ Lite-On Inc.	LTST-C191KRKT
4	4 ACT1210D	ACT1210D	ACT1210-101-2P-TL	U8, U9, U10, U11	https://www.digikey.com/en/products/detail/ TDK Corporation	ACT1210D-510-2P-TL0
1	1 AGND	JUMPER-SMT_2_NC_PASTE_SILK	SMT-JUMPER_2_NC_PASTE_SILK	JP5	Solder Solder	Solder
1	0 BOOT	LED-RED0603	LED-0603	D5	https://www.digikey.com/en/products/detail/ Visual Communications Company - VC	
	1 Boot	CONN_02	1X02	J8	https://www.digikey.com/en/products/detail/ Würth Elektronik	6
	0 Boot	MOMENTARY-SWITCH-SPST-PTH-6.0MM		SW2	https://www.digikey.com/en/products/detail/ TE Connectivity ALCOSWITCH Switched	
1	1 CLV1A-FKB-CK1VW1DE1BB7C3C3	CLV1A-FKB-CK1VW1DE1BB7C3C3	LED_CLV1A-FKB-CK1VW1DE1BB7C3C3		https://www.digikey.com/en/products/detail/ CreeLED, Inc.	CLV1A-FKB-CK1VW1DI
1	1 G6K-2P-Y	G6K-2P-Y	G6K-2P-Y	K1	https://www.digikey.com/en/products/detail/ Omron Electronics Inc-EMC Div	G6K-2P-Y DC3
1	0 LMC555_SOIC	LMC555_SOIC	SOIC127P599X175-8N	IC3	https://www.digikey.com/en/products/detail/ Texas Instruments	LMC555CM
1	1 MCP4261-103E/ML	MCP4261-103E/ML	QFN65P400X400X100-17N	U17	https://www.digikey.com/en/products/detail/ Microchip Technology	MCP4261-103E/ML
1	1 MCP4261-103E/SL	MCP4261-103E/SLSOIC-14	SOIC127P600X175-14N	IC1	DNP	
1	1 MRA4003T3G	DIODE_MRA4003T3G_SMA	DIOM5226X290N	D2	https://www.mouser.com/ProductDetail/onse onsemi	MRA4003T3G
1	1 NX2016SA-32MHZ-EXS00A-CS06654		NX2016SA_NDK	X1	https://www.digikey.com/en/products/detail/ NDK America, Inc.	NX2016SA-25.000M-ST
1	0 PDR_ON	TESTPOINT_TPS-SMD-10SN	TESTPOINT_SMD-10SN	TP2	DNP	
	4 PESD2CANFD27V-T	PESD2CANFD27V-T	DBZ_R-PDSO-G3	U12, U13, U14, U15	https://www.digikey.com/en/products/detail/ Nexperia USA Inc.	PESD2CANFD27V-TR
1	1 Power Select	CONN_03X2FEMALE	2X3	J14	https://www.digikey.com/en/products/detail/ METZ CONNECT USA Inc.	PR20203VBDN
1	1 RASPBERRYPI4_4GB	RASPBERRYPI4_4GB	MODULE_RASPBERRYPI4_4GB	U1	https://www.digikey.com/en/products/detail/ Samtec Inc.	SSQ-120-03-T-D
1	0 RST	LED-RED0603	LED-0603	D4	https://www.digikey.com/en/products/detail/ OSRAM Opto (ams OSRAM)	LT Q39G-Q100-25-1
1	1 Reset	MOMENTARY-SWITCH-SPST-PTH-6.0MM		SW1	https://www.digikey.com/en/products/detail/ TE Connectivity ALCOSWITCH Switched	
1	1 SS-52400-003	SS-52400-003	BELFUSE SS-52400-003	J13	https://www.digikey.com/en/products/detail/ Stewart Connector	SS-52400-003
1	1 ST-Link	CONN_05X2SHD-NS	2X5-SHROUDED-NS	J1	DNP	
1	1 ST1L05CPU33R	ST1L05CPU33R	SON95P300X300X100-7N	U3	https://www.mouser.com/ProductDetail/STM STMicroelectronics	ST1L05CPU33R
1	1 STM32H723ZGT	STM32H723ZGT	LQFP-144	U16	From Customer STMicroelectronics	STM32H723ZGT6
1	1 ST_3.3V	CONN_02	1X02	J3	DNP	
	1 ST_5V	CONN_02	1X02	J4	DNP	
	1 SWIM	CONN_02	1X02	J2	DNP	
	0 Startup Hacks	CONN_03X2FEMALE	2X3	J7	https://www.digikey.com/en/products/detail/ METZ CONNECT USA Inc.	PR20203VBDN
	4 TLE9251VSJXUMA1	TLE9251VSJXUMA1	SOIC8	U4, U5, U6, U7	https://www.digikey.com/en/products/detail/ Infineon Technologies	TLE9251VSJXUMA1
	0 USART2	CONN_02	1X02	J5	DNP	
1	1 USBLC6-4SC6Y	USBLC6-4SC6Y	SOT95P280X145-6N	U2	https://www.digikey.com/en/products/detail/ STMicroelectronics	USBLC6-4SC6Y
1	1 USB A SMT FEMALE	USB A SMT FEMALE	USB-A-S-SILK-FEMALE	J6	https://www.digikey.com/en/products/detail/ Amphenol ICC (FCI)	87583-0010BHLF
	0 USB_ID	TESTPOINT_TPS-SMD-10SN	TESTPOINT_SMD-10SN	TP3	DNP	
	0 USB_LOAD_SWITCH	TESTPOINT_TPS-SMD-10SN	TESTPOINT_SMD-10SN	TP1	DNP	
	1 VBAT	JUMPER-SMT_2_NC_PASTE_SILK	SMT-JUMPER_2_NC_PASTE_SILK	JP4	Solder Solder	Solder
	1 VDDA	JUMPER-SMT_2_NC_PASTE_SILK	SMT-JUMPER_2_NC_PASTE_SILK	JP3	Solder Solder	Solder
	0 VHAX	JUMPER-SMT_2_NC_PASTE_SILK	SMT-JUMPER_2_NC_PASTE_SILK	JP6	Solder Solder	Solder
	1 VIN	CONN_02	1X02	J11	DNP	
	0 VOLT_S	TESTPOINT_TPS-SMD-10SN	TESTPOINT_SMD-10SN	TP5	DNP	
	1 VREF+	JUMPER-SMT_2_NC_PASTE_SILK	SMT-JUMPER_2_NC_PASTE_SILK	JP2	Solder Solder	Solder
	1 SBU1	CONN_02	1X02	J9	https://www.digikey.com/en/products/detail/ Würth Elektronik	6
0	1 SBU2	CONN_02	1X02	J10	https://www.digikey.com/en/products/detail/ Würth Elektronik	6
	1 6562	001111_02	17.02		warti Liektionik	
Δn increase :	in Qty between revisions					
An increase i	nanged and Qty may have increased. Full o	quantity for Rev 2 must be ordered				
Dort value al-	<u> </u>	<u> </u>				
	III DIII DOIDINA le NANTIIGIZA HARI AMITA A	• /				
New Line iter	m but nothing is populated (test points etc	pefully possible automatically with definitions	in the soldernaste Gerber			

Description	AVAILABILITY E	BOM CATEGORY	COPYRIGHT	CURRENT-SUPPLY	DESCRIPTION FORWARD_CUR	RENT FREQUENCY
CAPACITOR, American symbol						
Resistor Fixed - ANSI		Resistor				
RESISTOR, American symbol						
CAPACITOR, European symbol						
Capacitor - ANSI		Capacitor				
Resistor Fixed - ANSI		Resistor				
RESISTOR, American symbol RESISTOR, American symbol						
CAPACITOR, European symbol						
RESISTOR, American symbol						
PNP transistor						
Resistor Fixed - ANSI		Resistor				
RESISTOR, American symbol						
RESISTOR, American symbol						
N-channel MOSFETs						
RESISTOR, American symbol						
CAPACITOR, European symbol						
Capacitor - ANSI		Capacitor				
12-stage binary/ripple COUNTER						
CAPACITOR, European symbol RESISTOR, American symbol						
Normally closed solder jumper						
TEST POINT PAD		EXCLUDE				
Quadruple 2-Input NAND Gate		IC_Logic			Quadruple 2-Input NAND Gate	
Multi connection point. Often used as Generic Header-pin footprint for 0.1 inch spaced/style header connections						
Red SMD LED						
Normally closed solder jumper						
Red SMD LED						
Multi connection point. Often used as Generic Header-pin footprint for 0.1 inch spaced/style header connections						
Momentary Switch (Pushbutton) - SPST						
PLCC4 3 in 1 SMD LED Check availability	In Stock				Red, Green, Blue (RGB) 622nm Red, 528nm Green, 468nm Blue LED Indication - Discrete 2V Red, 3.2V Green, 3.2V Blue 4-PLCC	
Low Signal Relay		10.01 1.71				2.0.
TIMER None Cheek eveilebility	In Chaple	IC_Clock-Timing			IC OSC SINGLE TIMER 3MHZ 8-SOIC Digital Patentiameter 10k/Ohm 05CPOS New Valetile Linear Automatics 10 Pin OFN FR Table	3MHz
None Check availability 7/8-Bit Single/Dual SPI Digital POT with Volatile Memory	In Stock	IC_Data-Conver	oian		Digital Potentiometer 10kOhm 256POS Non-Volatile Linear Automotive 16-Pin QFN EP Tube	
Diode Rectifier - Popular parts		Diode	SIOT		DIODE GEN PURP 300V 1A SMA	
Blode neetiner i opular parts		Diode	Copyright (C) 2022 Ultra Librarian. All rights reserved.		DIODE GENT OTH GOOV TA GIVIA	
TEST POINT PAD	E	EXCLUDE				
Multi connection point. Often used as Generic Header-pin footprint for 0.1 inch spaced/style header connections						
BCM2835 Raspberry Pi Model B+ - ARM11, VideoCore MPU Embedded Evaluation Board Check availability	In Stock				BCM2711 Raspberry Pi 4 Model B 4GB - ARM® Cortex®-A72 MPU Embedded Evaluation Board	
Red SMD LED						
Momentary Switch (Pushbutton) - SPST						
	In Stock				USB Type-C Connector 1 Port Right Angle Receptacle Shielded 0.063[1.60mm]	
Multi connection point. Often used as Generic Header-pin footprint for 0.1 inch spaced/style header connections						
None Check availability	In Stock				Linear Voltage Regulator IC Positive Fixed 1 Output 1.3A 6-DFN (3x3)	
Multi connection point. Often used as Consris Header pin feetprint for 0.1 inch speced/style header connections						
Multi connection point. Often used as Generic Header-pin footprint for 0.1 inch spaced/style header connections Multi connection point. Often used as Generic Header-pin footprint for 0.1 inch spaced/style header connections						
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Multi connection point. Often used as Generic Header-pin footprint for 0.1 inch spaced/style header connections						
Multi connection point. Often used as Generic Header-pin footprint for 0.1 inch spaced/style header connections						
	In Stock				17V Clamp 5A (8/20μs) Ipp Tvs Diode Surface Mount SOT-23-6	
USB-A Connector						
TEST POINT PAD	E	EXCLUDE				
		EXCLUDE EXCLUDE				
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TEST POINT PAD TEST POINT PAD Normally closed solder jumper Normally closed solder jumper Normally closed solder jumper	E					
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PURCHASE-URL	RATING REVERSE_VOLTAGE ROHS_COMPLIANT	SERIES	SF_ID SF_SKU	SPICEPREFIX SUB-CATEGORY	SUB_CATEGORY THERMALLOSS	TOLERANCE TYPE	VALUE	VOLTAGE_RATING
				C				
				Fixed R				
				С				
				Fixed R				
				R				
				С				
				R			200m A /40V	
				Fixed			200mA/40V	
				R				
				R				
				R			220mA/50V/3.5Ω	
				C				
				C R				
			DDT 00 (00	GATE		NAND		
			PRT-08432				RED	
							RED	
			COM-00097					
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				_				
tps://pricing.snapeda.com/search/part/MCP4261-103E/ML/?ref=eda	ROHS3 Compliant			Timer				
<u></u>	COMPLIANT	MCP42X			Digital Potentiometer 0.4 W		MCP4261-103E/SL	
				Rectifier			MRA4003T3G	
							FEMALE 2x3	
ttps://pricing.snapeda.com/search/part/RASPBERRY PI 4B/4GB/?ref=eda								
ttps://pricing.snapeda.com/search/part/RASPBERRY PI 4B/4GB/?ref=eda			COM-00097				FEMALE 2x3	
			COM-00097					
			COM-00097 PRT-08506					
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tps://pricing.snapeda.com/search/part/SS-52400-003/?ref=eda								
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tps://pricing.snapeda.com/search/part/SS-52400-003/?ref=eda tps://pricing.snapeda.com/search/part/ST1L05CPU33R/?ref=eda			PRT-08506				RED	
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tps://pricing.snapeda.com/search/part/SS-52400-003/?ref=eda tps://pricing.snapeda.com/search/part/ST1L05CPU33R/?ref=eda			PRT-08506				RED	
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tps://pricing.snapeda.com/search/part/SS-52400-003/?ref=eda tps://pricing.snapeda.com/search/part/ST1L05CPU33R/?ref=eda			PRT-08506				RED	
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