

PDNode-600 Pro_2025-05-07

Top SideTotal 142 parts detected223 Parts confirmed3 parts Inventory shortage10 parts not selectedCo

Uploaded BOM Data			Review Matched Parts			
Top Designator	Comment	Footprint	Matched Part Detail	Qty	Source	Lib Type
BOOT,RESET	430182050816	430182050816	430182050816C5447384 轻触开关, 160GF, 6X6MM, SMD, 5MM	0	JLCPCB	Extended
C1,C11,C40,C59,...	4.7nF	C0402	0402B472K500NTC1538 50V 4.7nF X7R ±10% 0402 Multilayer Ceramic ...	70	JLCPCB	Basic
C2,C7,C12,C17,...	100nF	C0402	0402F104M500NTC1581 50V 100nF Y5V ±20% 0402 Multilayer Ceramic...	135	JLCPCB	Extended
C64,C65	100nF	C0402	0402F104M500NTC1581 50V 100nF Y5V ±20% 0402 Multilayer Ceramic...			
C82,C87,C88	100nF	C0402	0402F104M500NTC1581 50V 100nF Y5V ±20% 0402 Multilayer Ceramic...			
C106,C107	100nF	C0402	0402F104M500NTC1581 50V 100nF Y5V ±20% 0402 Multilayer Ceramic...			
C125,C126	100nF	C0402	0402F104M500NTC1581 50V 100nF Y5V ±20% 0402 Multilayer Ceramic...			
C144,C145	100nF	C0402	0402F104M500NTC1581 50V 100nF Y5V ±20% 0402 Multilayer Ceramic...			
C163,C164	100nF	C0402	0402F104M500NTC1581 50V 100nF Y5V ±20% 0402 Multilayer Ceramic...			
C203,C204	100nF	C0402	0402F104M500NTC1581 50V 100nF Y5V ±20% 0402 Multilayer Ceramic...			
C248	100nF	0402	0402F104M500NTC1581 50V 100nF Y5V ±20% 0402 Multilayer Ceramic...	55	JLCPCB	Basic
C3,C4,C8,C9,C1...	10uF	C0805	CL21A106KAYNNNEC15850 25V 10uF X5R ±10% 0805 Multilayer Ceramic ...			
C247	10uF	0805	CL21A106KAYNNNEC15850 25V 10uF X5R ±10% 0805 Multilayer Ceramic ...	21	JLCPCB	Extended
C5,C10,C15,C85	100uF16V	100UF-16V	RVT1C101M0605C37308 100uF 16V ±20% SMD,D6.3xL5.4mm Aluminu...	90	JLCPCB	Extended
C6,C16,C56,C57,...	1uF10V	0201	GRM03R61A105ME44DC76935 10V 1uF X5R ±20% 0201 Multilayer Ceramic C...	50	JLCPCB	Basic
C39,C58,C77,C1...	1uF50V	C0603	CL10A105KB8NNNC C15849 50V 1uF X5R ±10% 0603 Multilayer Ceramic C...	55	JLCPCB	Basic
C41,C60,C79,C1...	4.7uF	C0402	CL05A475MP5NRNC C23733 10V 4.7uF X5R ±20% 0402 Multilayer Ceramic ...	130	JLCPCB	Extended
C42,C43,C44,C6...	10nF	0201	0201B103K250NTC285010 25V 10nF X7R ±10% 0201 Multilayer Ceramic ...	164	JLCPCB	Basic
C47,C48,C49,C5...	10uF50V	C0805	GRM21BR61H106KE43LC440198 50V 10uF X5R ±10% 0805 Multilayer Ceramic ...	166	JLCPCB	Basic
C51,C52,C53,C5...	22uF50V	C0805	CL21A226MAQNNNEC45783 25V 22uF X5R ±20% 0805 Multilayer Ceramic ...	245	JLCPCB	Extended
C55	100nF	0201	CL03A104KP3NNNC C49062 10V 100nF X5R ±10% 0201 Multilayer Ceramic...			
C74	100nF	0201	CL03A104KP3NNNC C49062 10V 100nF X5R ±10% 0201 Multilayer Ceramic...			
C97	100nF	0201	CL03A104KP3NNNC C49062 10V 100nF X5R ±10% 0201 Multilayer Ceramic...			
C116	100nF	0201	CL03A104KP3NNNC C49062 10V 100nF X5R ±10% 0201 Multilayer Ceramic...			
C135	100nF	0201	CL03A104KP3NNNC C49062 10V 100nF X5R ±10% 0201 Multilayer Ceramic...			
C154	100nF	0201	CL03A104KP3NNNC C49062 10V 100nF X5R ±10% 0201 Multilayer Ceramic...			
C173,C176,C180...	100nF	0201	CL03A104KP3NNNC C49062 10V 100nF X5R ±10% 0201 Multilayer Ceramic...			
C212,C214,C217...	100nF	0201	CL03A104KP3NNNC C49062 10V 100nF X5R ±10% 0201 Multilayer Ceramic...			
C249,C258,C259...	100nF	0201	CL03A104KP3NNNC C49062 10V 100nF X5R ±10% 0201 Multilayer Ceramic...			
C177,C178	15pF	0201	0201CG150J500NTC64554	20	JLCPCB	Extended

			50V 15pF C0G ±5% 0201 Multilayer Ceramic C...	Q			
C179	1uF	C0402	CL05A105KA5NQNCC52923 25V 1uF X5R ±10% 0402 Multilayer Ceramic C...	Q	20	JLPCPCB	Basic
C213,C251	1uF	0201	JMK063ABJ105MP-FC87143 6.3V 1uF X5R ±20% 0201 Multilayer Ceramic ...	Q	20	JLPCPCB	Extende
C215,C216	6.8nF	0201	0201B682K500NTC285015 50V 6.8nF X7R ±10% 0201 Multilayer Ceramic ...	Q	20	JLPCPCB	Extende
C219,C220	18pF	0201	GRM0335C1H180JA01DC85892 50V 18pF C0G ±5% 0201 Multilayer Ceramic C...	Q	20	JLPCPCB	Extende
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Why JLCPCB?

Capabilities


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C237,C262,C276	22uF-25V	C1206	25V 22uF X5R ±10% 1206 Multilayer Ceramic ...	Q	49	JLPCPCB	Basic
C238,C239,C263...	22uF-10V	C1206	CL31A226KAHNNNEC12891 25V 22uF X5R ±10% 1206 Multilayer Ceramic ...	Q			
C252,C253,C254...	220uF35V	CAPAE830X10...	RVT1V221M0810 220UF 35VC970697 220uF 35V 195mA@120Hz ±20% SMD,D8xL1...	Q	31	JLPCPCB	Extende
D9,D10,D11	SMBJ33A	SMB	SMBJ33AC19077586 11.26A 600W 53.3V 36.7V Unidirectional 33V S...	Q	17	JLPCPCB	Extende
DISP	AFC11-S20I...	FPC20	AFC11-S20ICC-00C11073 Drawer Type 20P Single-sided contact points/V...	Q	5	JLPCPCB	Extende
ESD1	SP0503BAH...	SOT143	SP0503BAHTG-ESC19170916 4A 60W 9V 6V Unidirectional 5V SOT-143 ESD...	Q	9	JLPCPCB	Extende
IC1,IC2,IC3,IC8	AP22653W6	SOT23-6	AP22653W6-7C2158037 3V~5.5V 65mΩ 2.1A 1 SOT-26 Power Distributi...	Q	20	JLPCPCB	Extende
IC4,IC5,IC6,IC7	SN74LVC1G...	SOT95P280X1...	SN74LVC1G04DBVRC7827 1 3.7ns@5V,50pF 10uA 1.65V~5.5V SOT-23-5 ...	Q	24	JLPCPCB	Extende
IC11,IC14,IC17,I...	STUSB4710	QFN24	STUSB4710AQ1TRC2678060 Controller I2C QFN-16(3x3) USB Converters R...	Q	0	JLPCPCB	Extende
IC12,IC15,IC18,I...	TPS552882	RPM0026A-MFG	TPS552882QRPQRQ1C2876594 VQFN-26-HR(3.5x4) DC-DC Converters ROHS	Q	40	JLPCPCB	Extende
IC13,IC16,IC19,I...	INA219BIDCNT	SOT23-8	INA219BIDCNTC2653868 SOT-23-8 Current Sense Amplifiers ROHS	Q	40	JLPCPCB	Extende
IC27	W25Q128JV...	SON127P600X...	W25Q128JVPIQC190862 128Mbit WSON-8-EP(5x6) NOR FLASH ROHS	Q	5	JLPCPCB	Extende
IC28	MCP6001R	SOT23-5	MCP6001RT-I/OTC154973 Single 1pA 0.6V/us 1MHz SOT-23-5 Operation...	Q	5	JLPCPCB	Extende
IC29	CAT24C512...	SON50P300X2...	CAT24C512HU5IGT3C153773 UDFN-8(2x3) EEPROM ROHS	Q	5	JLPCPCB	Extende
IC38	TCA9548AR...	QFN50P400X4...	TCA9548ARGERC555456 1.65V~5.5V VQFN-24-EP(4x4) Signal Switches...	Q	5	JLPCPCB	Extende
IC39	W5500	LQFP48	W5500C32843 LQFP-48(7x7) Ethernet Controllers ROHS	Q	5	JLPCPCB	Extende
IC40,IC43,IC45	MP2315S	SOT65P280X1...	MP2315SGJ-ZC3031493 Monolithic Power Systems MP2315SGJ-Z	Q	15	JLPCPCB	Extende
IC42	MCP23017-E...	QFN28[6X6]ML	MCP23017-E/MLC639770 1.7MHz I2C QFN-28-EP(6x6) I/O Expanders R...	Q	5	JLPCPCB	Extende
L10	BLM18EG22...	0603	BLM18EG221TN1DC113025 150mΩ ±25% 220Ω@100MHz 0603 Ferrite Be...	Q	9	JLPCPCB	Extende
PORT1,PORT2,P...	632722100213	632722100213	TYPE-C-31-M-17C283540  1 6P Female Type-C SMD USB Connectors R...	Q	40	JLPCPCB	Extende
R1,R2,R4,R7,R8,...	10K	0402	0402WGF1002TCEC25744 62.5mW Thick Film Resistors 50V ±100ppm/°C ...	Q	190	JLPCPCB	Basic
R56	10K	0402	0402WGF1002TCEC25744 62.5mW Thick Film Resistors 50V ±100ppm/°C ...	Q			
R75,R76	10K	0402	0402WGF1002TCEC25744 62.5mW Thick Film Resistors 50V ±100ppm/°C ...	Q			
R79	10K	0402	0402WGF1002TCEC25744 62.5mW Thick Film Resistors 50V ±100ppm/°C ...	Q			
R99,R100	10K	0402	0402WGF1002TCEC25744 62.5mW Thick Film Resistors 50V ±100ppm/°C ...	Q			
R103	10K	0402	0402WGF1002TCEC25744 62.5mW Thick Film Resistors 50V ±100ppm/°C ...	Q			
R122,R123	10K	0402	0402WGF1002TCEC25744 62.5mW Thick Film Resistors 50V ±100ppm/°C ...	Q			
R126	10K	0402	0402WGF1002TCEC25744 62.5mW Thick Film Resistors 50V ±100ppm/°C ...	Q			
R145,R146	10K	0402	0402WGF1002TCEC25744 62.5mW Thick Film Resistors 50V ±100ppm/°C ...	Q			
R149	10K	0402	0402WGF1002TCEC25744 62.5mW Thick Film Resistors 50V ±100ppm/°C ...	Q			
R168,R169	10K	0402	0402WGF1002TCEC25744 62.5mW Thick Film Resistors 50V ±100ppm/°C ...	Q			
R172	10K	0402	0402WGF1002TCEC25744 62.5mW Thick Film Resistors 50V ±100ppm/°C ...	Q			
R191,R192	10K	0402	0402WGF1002TCEC25744	Q			

			62.5mW Thick Film Resistors 50V ±100ppm/°C ...	Q			
R195	10K	0402	0402WGF1002TCE C25744 62.5mW Thick Film Resistors 50V ±100ppm/°C ...	Q			
R240,R247,R248...	10K	0402	0402WGF1002TCE C25744 62.5mW Thick Film Resistors 50V ±100ppm/°C ...	Q			
R261	10K	0402	0402WGF1002TCE C25744 62.5mW Thick Film Resistors 50V ±100ppm/°C ...	Q			
R3,R6,R9,R84	20K1%	0402	0402WGF2002TCE C25765 62.5mW Thick Film Resistors 50V ±100ppm/°C ...	Q	30	JLPCPB	Basic
R5,R67,R91,R11...	200K	R0201	RC0201FR-07200KL C138163 50mW Thick Film Resistors 25V ±1% ±200ppm...	Q	50	JLPCPB	Extend
R11,R68,R92,R1...	12.7K0.1%	R0201	0201WMF1272TEE C423755 50mW Thick Film Resistors 25V ±1% ±200ppm...	Q	50	JLPCPB	Extend
R12,R14,R15,R1...	1K	0402	0402WGF1001TCE C11702 62.5mW Thick Film Resistors 50V ±100ppm/°C ...	Q	50	JLPCPB	Basic
R46,R47,R69,R7...	4.64K0.1%	R0201	0201WMF4641TCE C270725 50mW Thick Film Resistors 25V ±1% ±200ppm...	Q	90	JLPCPB	Extend
R48,R71,R95,R1...	8.87K0.1%	R0201	RTT018871FTH C332577 50mW Thick Film Resistors 25V ±1% ±200ppm...	Q	50	JLPCPB	Extend
R49,R72,R96,R1...	30.9K0.1%	R0201	RTT013092FTH C158612 50mW Thick Film Resistors 25V ±1% ±200ppm...	Q	50	JLPCPB	Extend
R51,R73,R98,R1...	100K	R0201	CR0201FH1003G C100127 50mW ±1% ±250ppm/°C 100kΩ 0201 Chip Res...	Q	65	JLPCPB	Extend
R54	10K	R0201	CR0201FH1002G C100126 ±1% 10kΩ 0201 Chip Resistor - Surface Mount...	Q			
R66	10K	R0201	CR0201FH1002G C100126 ±1% 10kΩ 0201 Chip Resistor - Surface Mount...	Q			
R77	10K	R0201	CR0201FH1002G C100126 ±1% 10kΩ 0201 Chip Resistor - Surface Mount...	Q			
R90	10K	R0201	CR0201FH1002G C100126 ±1% 10kΩ 0201 Chip Resistor - Surface Mount...	Q			
R101	10K	R0201	CR0201FH1002G C100126 ±1% 10kΩ 0201 Chip Resistor - Surface Mount...	Q			
R113	10K	R0201	CR0201FH1002G C100126 ±1% 10kΩ 0201 Chip Resistor - Surface Mount...	Q			
R124	10K	R0201	CR0201FH1002G C100126 ±1% 10kΩ 0201 Chip Resistor - Surface Mount...	Q			
R136	10K	R0201	CR0201FH1002G C100126 ±1% 10kΩ 0201 Chip Resistor - Surface Mount...	Q	95	JLPCPB	Extend
R147	10K	R0201	CR0201FH1002G C100126 ±1% 10kΩ 0201 Chip Resistor - Surface Mount...	Q			
R159	10K	R0201	CR0201FH1002G C100126 ±1% 10kΩ 0201 Chip Resistor - Surface Mount...	Q			
R170	10K	R0201	CR0201FH1002G C100126 ±1% 10kΩ 0201 Chip Resistor - Surface Mount...	Q			
R182	10K	R0201	CR0201FH1002G C100126 ±1% 10kΩ 0201 Chip Resistor - Surface Mount...	Q			
R193	10K	R0201	CR0201FH1002G C100126 ±1% 10kΩ 0201 Chip Resistor - Surface Mount...	Q			
R208,R218	10K	R0201	CR0201FH1002G C100126 ±1% 10kΩ 0201 Chip Resistor - Surface Mount...	Q			
R259	10K	R0201	CR0201FH1002G C100126 ±1% 10kΩ 0201 Chip Resistor - Surface Mount...	Q			
R275	10K	R0201	CR0201FH1002G C100126 ±1% 10kΩ 0201 Chip Resistor - Surface Mount...	Q			
R55,R78,R102,R...	2.2K	R0201	RC0201FR-072K2L C142018 50mW Thick Film Resistors 25V ±1% ±200ppm...	Q	55	JLPCPB	Extend
R249	2.2K1%	R0201	RC0201FR-072K2L C142018 50mW Thick Film Resistors 25V ±1% ±200ppm...	Q			
R57,R63,R80,R8...	0.010R	2512	RTT25R010FTE C105142 2512 Chip Resistor - Surface Mount ROHS	Q	84	JLPCPB	Extend
R58,R81,R105,R...	6.19K	R0201	RTT016191FTH C158394 50mW Thick Film Resistors 25V ±1% ±200ppm...	Q	50	JLPCPB	Extend
R59,R82,R106,R...	49.9K	R0201	RC0201FR-0749K9L C138136 50mW Thick Film Resistors 25V ±1% ±200ppm...	Q	50	JLPCPB	Extend
R60,R62,R83,R8...	19.9K	R0201	AC0201FR-0720KL C226463 50mW Thick Film Resistors 25V ±1% ±200ppm...	Q	100	JLPCPB	Extend
RT3,RT5	20K1%	R0201	AC0201FR-0720KL C226463 50mW Thick Film Resistors 25V ±1% ±200ppm...	Q			
R61,R85,R108,R...	150K	R0201	RTT011503FTH C158794 50mW Thick Film Resistors 25V ±1% ±200ppm...	Q	50	JLPCPB	Extend
R64,R65,R88,R8...	1K	R0201	CR0201FH1001G C100125 50mW Thick Film Resistors 25V ±1% ±250ppm...	Q	100	JLPCPB	Extend
R205,R206	27R	R0201	RC0201FR-0727RL C273268 50mW Thick Film Resistors 25V ±1% ±200ppm...	Q	20	JLPCPB	Extend
R207,R253	4D03WJ03...	742C083103JP	4D03WJ0332T5E C12013 4 ±5% 3.3kΩ 62.5mW ±200ppm/°C 0603x4 Re...	Q	25	JLPCPB	Extend
R215,R216,R217	YC164-JR-07...	YC164-JR-073...	4D03WJ0332T5E C12013				

			4 ±5% 3.3kΩ 62.5mW ±200ppm/°C 0603x4 Re... Q			
R212	4.7K	0402	0402WGF4701TCE C25900 62.5mW Thick Film Resistors 50V ±100ppm/°C ... Q	20	JLPCPB	Basic
R214,R236	4.7K	R0201	RC0201FR-074K7L C138135 50mW Thick Film Resistors 25V ±1% ±200ppm... Q	20	JLPCPB	Extende
R226,R227,R228...	3.3R	R0201	RTT013R30FTH C158547 50mW Thick Film Resistors 25V -200ppm/°C~+... Q	30	JLPCPB	Extende
R230,R231,R232...	49.9R	R0201	CR0201FH49R9G C100141 50mW Thick Film Resistors 25V ±1% ±250ppm... Q	30	JLPCPB	Extende
R234	12.4K1%	R0201	0201WMF1242TEE C423760 50mW Thick Film Resistors 25V ±1% ±200ppm... Q	20	JLPCPB	Extende
R235	1M	R0201	RTT011004FTH C102686 50mW Thick Film Resistors 25V ±1% ±200ppm... Q	20	JLPCPB	Extende
R237,R238,R239	470R	0402	0402WGF4700TCE C25117 62.5mW Thick Film Resistors 50V ±100ppm/°C ... Q	25	JLPCPB	Basic
R241,R254,R263	499K	R0201	RC0201FR-07499KL C138138 50mW Thick Film Resistors 25V ±1% ±200ppm... Q	25	JLPCPB	Extende
R242,R256,R264	7.5K	R0201	RTT017501FTH C158362 50mW Thick Film Resistors 25V ±1% ±200ppm... Q	35	JLPCPB	Extende
RFB8,RFB12	7.5K1%	R0201	RTT017501FTH C158362 50mW Thick Film Resistors 25V ±1% ±200ppm... Q			
R243,R257,R265	10R	R0201	CR0201FH10R0G C105889 50mW ±1% 10Ω 0201 Chip Resistor - Surface ... Q	25	JLPCPB	Extende
R250,R251	5.1K	R0201	CR0201FH5101G C100142 50mW Thick Film Resistors 25V ±1% ±250ppm... Q	20	JLPCPB	Extende
R255	1M	0402	0402WGF1004TCE C26083 62.5mW Thick Film Resistors 50V ±100ppm/°C ... Q	20	JLPCPB	Basic
REF1	LM4040BXX	SOT23	LM4040A30IDBZR C9409 3V ±0.1% 15mA Fixed SOT-23 Voltage Referen... Q	5	JLPCPB	Extende
RFB3,RFB7,RFB11	40.2K	R0201	RTT014022FTH C166207 50mW ±1% ±200ppm/°C 40.2kΩ 0201 Chip Re... Q	25	JLPCPB	Extende
RFB4	12.7K1%	R0201	RTT011272FTH C166367 50mW Thick Film Resistors 25V ±1% ±200ppm... Q	6	JLPCPB	Extende
RT1	33K	R0201	CR0201FH3302G C100136 50mW Thick Film Resistors 25V ±1% ±250ppm... Q	20	JLPCPB	Extende
T6,T7,T8,T11,T12...	DMP3013SFV	POWERDI333...	DMP3013SFV-7 C264098 30V 940mW 9.5mΩ@10V,11.5A 3V@250uA 1 ... Q	120	JLPCPB	Extende
T9,T10,T14,T15,...	IPZ40N04S5L	POWERDI333...	IPZ40N04S5L-4R8 C537508 40V 40A 4.8mΩ@10V,20A 48W 2V@17uA 1 N... Q	0	JLPCPB	Extende
USB9		USB-C	USB-TYPE-C-018 C2927038 ⓘ Q 3A 1 Horizontal attachment 16P Female -25°C~... Q	5	JLPCPB	Extende
X1	12MHz	WE-XTAL_CFP...	X322512MSB4SI C9002 12MHz Surface Mount Crystal 20pF ±10ppm ±... Q	9	JLPCPB	Basic
C231	C1206C102K...	C1206	C1206C102KGRAC TM C19863226 2kV 1nF X7R ±10% Multilayer Ceramic Capacit... Q	10		Extende
IC26	RP2040	QFN40P700X7...	RP2040 C2761095 Raspberry Pi RP2040 Q	5		Extende
X2	25MHz	3.2X2.5_KX-7	25MHz C2914306 JGHC 25MHz Q	5		Extende
AVDD,DVDD,GN...	TP	TP	No Part Selected Search Q	Pre-order		
L2,L3,L4,L5,L6,L...	4.7uH744771...	WE-PD_1280	No Part Selected Search Q	Pre-order		
L11	4.2uH	SRR5228A	No Part Selected Search Q	Pre-order		
L13,L15	4.9uH	SRR5228A	No Part Selected Search Q	Pre-order		
R50,R74,R97,R1...	DNI	R0201	No Part Selected Search Q	Pre-order		
R213	NC	R0201	No Part Selected Search Q	Pre-order		
VUSBA1	TPB127	B127	No Part Selected Search Q	Pre-order		
VUSBA2	TPB127	B127	No Part Selected Search Q	Pre-order		
VUSBA3	TPB127	B127	No Part Selected Search Q	Pre-order		
VUSBA4	TPB127	B127	No Part Selected Search Q	Pre-order		

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