

Radioberry-juice beta1 BOM

Assembly Build - February 21, 2021

Line	Description	Part Number	Sub OK	Designators	Footprint	Pins	Quantity
2131	4.7uF 0805 \geq X5R \geq 25V \leq 20%	GRM21BR61E475KA12L	Y	C1,C5,C7,C9,C22,C24,C26,C28	0805	2	8
15331	0.1uF 0603 \geq X5R \geq 50V \leq 20%	C0603C104M5RACTU	Y	C2,C4,C6,C8,C10,C12,C15,C18,C19,C20,C23,C25,C27,C29	0603	2	14
58143	10nF 0603 \geq X5R \geq 50V \leq 20%	C0603C103M5RACTU	Y	C3,C16,C21	0603	2	3
2131	3.3uF 0805 \geq X5R \geq 25V \leq 20%	GRM21BR61E335KA12L	Y	C11	0805	2	1
2131	18pF 0603 \geq X5R \geq 25V \leq 20%	C0603C180K5RACTU	Y	C13,C14	0603	2	2
1940	1nF 0603 \geq X5R \geq 50V \leq 20%	C0603C102M5RACTU	Y	C17	0603	2	1
	Power	PJ-102AH	Y	CN1	Custom	3	1
	TVS Diode	SMBJ18CA	N	D1	DO-214AA (SMB)	2	1
	TVS Diode	PGB1010603MR	N	D2,D3	0603	2	2
	LED RA	LTST-S220KFKT	N	D4,D5	2.1x1.0mmRightAngle	2	2
	FUSE PTC 3.0A 24V	MF-LSMF300/24X-2	N	F1	2920 7.36x5.12mm	2	1
	FB 0603 \geq 600R@100MHz \leq 200mOhm@DC 1A \leq 25%	MPZ1608S601ATA00	Y	FB1,FB2,FB3	0603	2	3
	USB-C	TYPE-C-31-M-12	Y	J2	Custom	15	1
	40 Positions Header Connector (2.54mm)	67996-440HLF	Y	J3	2x20	40	1
	Mosfet; P-ch; 20V; 3.7A	IRLML6402GTRPBF	N	Q1	SOT-23-3	3	1
	MOSFET N-CH 50V 220MA SOT23-3	BSS138	N	Q2	SOT-23-3	3	1
	BC847 NPN General Purpose Transistor	BC847	N	Q3	SOT-23-3	3	1
26547	10K 0603 \leq 5% \geq 1/10W	RC0603FR-0710KL	Y	R1,R10,R12,R13,R14	0603	2	5
23688	100K 0603 \leq 1% \geq 1/10W	RC0603FR-07100KL	Y	R2	0603	2	1
23889	4.7K 0603 \leq 5% \geq 1/10W	RC0603FR-074K7L	Y	R3,R15,R16	0603	2	3
23688	5.1K 0603 \leq 1% \geq 1/10W	RC0603FR-075K1L	Y	R4,R5	0603	2	2
23688	10R 0603 \leq 1% \geq 1/10W	RC0603FR-0710RL	Y	R6,R7	0603	2	2
23688	12K 0603 \leq 1% \geq 1/10W	RC0603FR-0712KL	Y	R8	0603	2	1
23688	27R 0603 \leq 1% \geq 1/10W	RC0603FR-0727RL	Y	R9	0603	2	1
23688	1M 0603 \leq 1% \geq 1/10W	RC0603FR-071ML	Y	R11	0603	2	1
4597	2.2K 0603 \leq 5% \geq 1/10W	RC0603FR-072K2L	Y	R17	0603	2	1
21904	1K 0603 \leq 5% \geq 1/10W	RC0603FR-071KL	Y	R18,R19	0603	2	2

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	IC REG LINEAR 3.3V 800MA	LD1117S33TR	Y	U1,U4	SOT223	4	2
	USB Hi-Speed Dual Channel	FT2232HL	Y	U2	LQFP-64	64	1
	93LC56BT-I/OT	93LC56B	Y	U3	SOT23-6	6	1
	Crystal 12 MHz.	ABM7-12.000MHZ-D2Y-T	Y	Y1	6.00mm x 3.50mm	2	1

Line Items: SMT:28 Assembled TH:3

Parts: SMT:65 Assembled TH:3

Pins: SMT:143 Assembled TH:58