

Radioberry-juice beta 2 BOM

Assembly Build - November 16, 2021

Line	Description	Part Number	Sub OK	Designators	Footprint	Pins	Quantity
16532	10uF 0805 \geq X5R \geq 25V \leq 20%	GRT21BC71E106KE13L	Y	C1,C3,C35	0805	2	3
15331	0.1uF 0805 \geq X5R \geq 50V \leq 20%	C0805C104M5RACTU	Y	C2,C7,C37	0805	2	3
2131	100uF 0805 \geq X5R \geq 10V \leq 20%	GRM21BR71A106KA73K	Y	C4,C36	0805	2	2
2131	0.47uF 0805 \geq X5R \geq 25V \leq 20%	GCM21BR71H474KA55K	Y	C5	0805	2	1
2131	47uF 7343 \geq X5R \geq 25V \leq 20%	T495X476K035ATE300	Y	C6	Custom	2	1
2131	4.7uF 0805 \geq X5R \geq 25V \leq 20%	GRM21BR61E475KA12L	Y	C8,C11,C15,C27,C29, C31,C33	0805	2	7
15331	0.1uF 0603 \geq X5R \geq 50V \leq 20%	C0603C104M5RACTU	Y	C9,C12,C16,C17,C20, C23,C24,C25,C28,C30, C32,C34	0603	2	12
2131	3.3uF 0805 \geq X5R \geq 25V \leq 20%	GRM21BR61E335KA12L	Y	C10	0805	2	1
1940	1nF 0603 \geq X5R \geq 50V \leq 20%	C0603C102M5RACTU	Y	C13,C22	0603	2	2
58143	10nF 0603 \geq X5R \geq 50V \leq 20%	C0603C103M5RACTU	Y	C14,C21,C26	0603	2	3
2131	18pF 0603 \geq X5R \geq 25V \leq 20%	C0603C180K5RACTU	Y	C18,C19	0603	2	2
	Power	PJ-102AH	Y	CN1	Custom	3	1
	TVS Diode	SMBJ18CA	N	D1	DO-214AA (SMB)	2	1
	LED RA	LTST-S220KFKT	N	D2,D5	2.1x1.0mmRightAngle	2	2
	TVS Diode	PGB1010603MR	N	D3,D4	0603	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,FB4	0603	2	4
	USB-C	TYPE-C-31-M-12	Y	J2	Custom	15	1
	40 Positions Header Connector (2.54mm)	67996-440HLF	Y	J5	2x20	40	1
	MOSFET P-CH 30V	DMP3099L-7	N	Q1	SOT-23-3	3	1
23514	620 0603 \leq 1% \geq 1/10W	RC0603FR-07620RL	Y	R1	0603	2	1
21904	1K 0603 \leq 5% \geq 1/10W	RC0603FR-071KL	Y	R2,R3,R20	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
26547	10K 0603 \leq 5% \geq 1/10W	RC0603FR-0710KL	Y	R10,R12,R13,R14	0603	2	4
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	R15	0603	2	1

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23889	4.7K 0603 $\leq 5\% \geq 1/10W$	RC0603FR-074K7L	Y	R18,R19	0603	2	2
23705	3.3K 0603 $\leq 5\% \geq 1/10W$	RC0603FR-073K3L	Y	R21	0603	2	1
23867	47 0603 $\leq 1\% \geq 1/10W$	RC0603FR-0747RL	Y	R22	0603	2	1
	IC REG LINEAR 3.3V 800MA	LD1117S33TR	Y	U2,U5	SOT223	4	2
	USB Hi-Speed Dual Channel	FT2232HL	Y	U3	LQFP-64	64	1
	93LC56BT-I/OT	93LC56B	Y	U4	SOT23-6	6	1
	5A SIMPLE SWITCHER	LMZ22005TZ	Y	VR1	Custom	8	1
	Crystal 12 MHz.	ABM7-12.000MHZ-D2Y-T	Y	Y1	6.00mm x 3.50mm	2	1

Line Items: SMT:34 Assembled TH:3

Parts: SMT:74 Assembled TH:3

Pins: SMT:225 Assembled TH:58

Do Not Assemble: DB1 J1 J3 J4 R16 R17