

# Radioberry-hat beta 0.1 BOM

Assembly Build - December 26, 2023

Description	Part Number	Sub OK	Designators	Footprint	Pins	Quantity
10pF 0805NP0 $\geq$ 50V $\leq$ 5%	<a href="#">CC0805JRNPO9BN100</a>	Y	C101	0805	2	1
100pF 0805NP0 $\geq$ 50V $\leq$ 5%	<a href="#">CC0805JRNPO0BN101</a>	N	C102,C315	0805	2	2
10uF 0805 $\geq$ X5R $\geq$ 25V $\leq$ 20%	<a href="#">GRM21BC71E106KE01K</a>	Y	C103	0805	2	1
1uF 0805 $\geq$ X5R $\geq$ 25V $\leq$ 20%	<a href="#">KAF21KR71H105KU</a>	Y	C201,C202,C203,C204	0805	2	4
0.1uF 0805 $\geq$ X5R $\geq$ 50V $\leq$ 20%	<a href="#">KGM21NR71H104KT</a>	Y	C301,C302,C303,C304, C305,C306,C310,C311, C312,C317,C318,C319	0805	2	12
5.6pF 0805 $\geq$ X5R $\geq$ 100V $\leq$ 20%	<a href="#">GQM2195C2E5R6DB12D</a>	Y	C307	0805	2	1
30pF 0805 $\geq$ X5R $\geq$ 50V $\leq$ 20%	<a href="#">08051A300JAT2A</a>	Y	C308	0805	2	1
20pF 0805 $\geq$ X5R $\geq$ 50V $\leq$ 20%	<a href="#">08055A200F4T2A</a>	Y	C309	0805	2	1
82pF 0805 $\geq$ X5R $\geq$ 50V $\leq$ 20%	<a href="#">C0805C202J5GACAUTO</a>	Y	C313	0805	2	1
110pF 0805 $\geq$ X5R $\geq$ 50V $\leq$ 20%	<a href="#">C0805C111J1GACTU</a>	Y	C314	0805	2	1
68pF 0805 $\geq$ X5R $\geq$ 50V $\leq$ 20%	<a href="#">C0805C680J3GACTU</a>	Y	C316	0805	2	1
Power	<a href="#">PJ-102AH</a>	Y	CN101	Custom	3	1
TVS Diode	<a href="#">SMBJ18CA</a>	N	D101	DO-214AA (SMB)	2	1
SOD-123	<a href="#">1N4148W-7-F</a>	Y	D301,D302,D303	Custom	2	3
2x5 M 0.1in	<a href="#">67997-410HLF</a>	Y	DB201	Custom	10	1
PTC Resettable Fuses 0805	<a href="#">MF-NSMF050/24X</a>	Y	F101	0805	2	1
20 Positions Header Connector (2.54mm)	<a href="#">76342-310LF</a>	Y	JP201	2x10	20	1
Omron relais	<a href="#">OMR G6K-2F-DC12</a>	N	K301,K302,K303	Custom	8	3
Ferrietparels 600ohms 100MHz .5A	<a href="#">MMZ2012R601ATD25</a>	Y	L301	0805	2	1
160nH T37 n=2	<a href="#">LQW2BANR16J00L</a>	Y	L302	0805	2	1
120nH T32 n=2	<a href="#">0805HP-121XGRC</a>	Y	L303,L304	0805	2	2
Inductive Load Driver	<a href="#">NUD3124LT1G</a>	N	Q201,Q202	SOT-23-3	3	2
2.2K 0805 $\leq$ 1% $\geq$ 2/10W	<a href="#">SDR10EZPF2201</a>	Y	R201,R202,R205,R206	0805	2	4
100 0805 $\leq$ 5% $\geq$ 1/10W	<a href="#">RC0805FR-07100RL</a>	Y	R203,R204,R207,R208	0805	2	4
4.7K 0805 $\leq$ 1% $\geq$ 2/10W	<a href="#">71-TNPW08054K70BEEN</a>	Y	R209,R210	0805	2	2
249 0805 $\leq$ 1% $\geq$ 2/10W	<a href="#">ESR10EZPD2490</a>	Y	R301	0805	2	1
60.4 0805 $\leq$ 1% $\geq$ 2/10W	<a href="#">SFR10EZPF60R4</a>	Y	R302,R303	0805	2	2
470 0805 $\leq$ 1% $\geq$ 2/10W	<a href="#">SFR10EZPF4700</a>	Y	R304,R316	0805	2	2

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1K 0805 $\leq 5\% \geq 1/10W$	<a href="#">RC0805FR-071KL</a>	Y	R305,R317	0805	2	2
12 0805 $\leq 5\% \geq 1/8W$	<a href="#">RC0805FR-0712RL</a>	Y	R306,R314	0805	2	2
5.1 0805 $\leq 1\% \geq 2/10W$	<a href="#">SDR10EZPJ5R1</a>	Y	R307,R315	0805	2	2
0 0805 $\leq 1\% \geq 2/10W$	<a href="#">SFR10EZPJ000</a>	Y	R308	0805	2	1
50 1206 $\leq 1\% \geq 2/10W$	<a href="#">KTR18EZPF49R9</a>	Y	R309	1206	2	1
330 0805 $\leq 1\% \geq 2/10W$	<a href="#">SDR10EZPJ331</a>	Y	R310	0805	2	1
200 0805 $\leq 1\% \geq 2/10W$	<a href="#">SDR10EZPJ200</a>	Y	R311	0805	2	1
SMA Straight	<a href="#">5-1814832-1</a>	Y	RF301,RF302,RF303, RF304	Custom	5	4
RF Transformer	<a href="#">TC4-1T+</a>	N	T301	Custom	2	1
RF Transformer	<a href="#">ADT1.5-1+</a>	N	T302	Custom	2	1
Dual Wideband High Output Current	<a href="#">OPA2674ID</a>	N	U301	Custom	2	1

**Line Items:** SMT:35 Assembled TH:3

**Parts:** SMT:68 Assembled TH:3

**Pins:** SMT:156 Assembled TH:33

**Do Not Assemble:** R312 R313