



Bill Of Materials

Quantity	Manufacturer Part Number	Description1	Designator
2	304DCN2R7SCBB	Super Cap 2.7V 0.3F -20%, +50% 1R ESR Radial THT	C1, C2
4	GJM0335C1H4R7BB01D	MLCC 4.7pF 50V ±0.1pF C0G NP0 0201	C3, C10, C13, C18
1	CGA3E2X7R1H104K080AA	MLCC 0.1uF 50V X7R 10% 0603	C4
1	VJ0603Y103JXBPW1BC	MLCC 0.01uF 100V X7R 5% 0603	C5
3	GRM033R60J104JE19D	MLCC 0.1uF 6.3V X5R 5% 0201	C6, C9, C14
1	CL05A475MP5NRNC	MLCC 4.7uF 10V X5R 0402	C7
1	C0201C101J3GACTU	MLCC 100 pF 25V 5% C0G / NP0 0201	C8
3	CL03A105MQ3CSNC	MLCC 1uF 6.3V X5R 0201	C11, C16, C17
1	CL03C010BA3GNNC	MLCC 1pF 10% 25V C0G 0201	C12
1	06031C682JAT2A	MLCC - 6800pF 100V 5% X7R 0603	C15
1	885012006085	MLCC 1000PF 100V 5% C0G/NP0 0603	C19
2	BAT46JFILM	Schottky Diode 100V 150 mA 1A SOD323	D1, D2
2	MMSZ4683-TP	ZEN 3V 500MW Vr800nA@1V SOD123	D3, D4
1	EAST1616RGBB6	RGB LED Red 1.8V - Green 2.6V - Blue 2.75V 0606	D5
1	ATV02W400B-HF	TVS DIODE 40V 64.5V SOD123	D6
1	BESPOKE WINDING	RECEIVER COIL 800uH LENGTH: 100mm 0.15mm WIRE . OD:5mm ID:2mm	L1
1	LQP03TN3N3B02D	IND 3.3nH 500MHz 450mA 250mR 0201	L2
1	LQP03TN2N2B02D	IND 2.2nH 600mA ±0.1 nH 150mR 0201	L3
1	BC847ALT1G	NPN 45V 100mA SOT23	Q1
2	RC0603JR-07330RL	330R 5% 0.1W 0603	R1, R11
1	RMCF0201FT10K0	RES 10K 1% 50mW 0201	R2
1	RC0201FR-0724KL	RES 24K 1% 50mW 0201	R3
2	AC0201FR-0710RL	RES 10R 1% 25mW 0201	R4, R6
1	RC0201FR-07200RL	RES 200R 1% 50mW 0201	R7
1	RK73Z1HTTC	RES 0R Metal Element 0201	R8
1	RMCF0201FT100K	RES 100K 1% 50mW 0201	R9
1	NTCG064EF104FTBX	NTC THERM 100K 1% B25/85 □4550K 0201	R10
1	NRF52805-CAA-R	BLE SOC 2.4GHz 192KB Flash 24KB RAM WLCSPP BGA	U1
1	XRCGB32M000F0L00R0	XTAL 32MHz ±100ppm 6pF 100R SMD	X1
1	SC12S-7PF20PPM	XTAL 32.768kHz ±20ppm 7pF 90K SMD	X2

Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
◇	23	0.15mm	Plated	None
○	3	0.25mm	Plated	None
⊗	2	0.30mm	Plated	None
□	36	0.50mm	Plated	None
	64 Total			

Layer Stack	Material	Layer	Thickness	Dielectric Material	Type	Gerber
		Top Overlay			Legend	GTO
	Surface Material	Top Solder	0.01mm	Solder Resist	Solder Mask	GTS
	Copper	Top Layer	0.04mm		Signal	GTL
			0.91mm	FR-4	Dielectric	
	Copper	Bottom Layer	0.04mm		Signal	GBL
	Surface Material	Bottom Solder	0.01mm	Solder Resist	Solder Mask	GBS
		Bottom Overlay			Legend	GBO

Total thickness: 1.00mm

DRAWN: DJR

DATE: 11-02-2021

REV: R6

HEATLE