

QTY	Identifier	Value	Model
	C1, C2, C3, C4, C5, C9, C10, C12,		
14	C13, C15, C16, C17, C19, C21	100n	Ceramic 2.5mm
2	C11, C18	10p	Ceramic 2.5mm
1	C22	2.2uF/25V	Elco Radial 2mm
1	C6	1n	Ceramic 2.5mm
4	C7, C8, C14, C20	10uF/16V	Elco Radial 2mm
	R1, R2, R3, R4, R5, R8, R9, R10,		
12	R13, R14, R16, R18	4k7	Axial DIN0207
2	R11, R17	100k	Axial DIN0207
2	R12, R15	39k	Axial DIN0207
2	R6, R7	220R	Axial DIN0207
1	U1	MCP6022	PDIP8
1	U2	LF50CV	TO-220
1	HS1	Fischer FK 224	Heatsink
1	J1	Molex 73330-0030	F-socket
1	J2	Molex 22-27-2051	Rotary encoder
1	J3	Molex 22-27-2021	BW terminal
1	J4	Molex 22-27-2021	Mode terminal
1	J5	Molex 22-27-2031	Squelch terminal
1	J6	Molex 22-27-2021	Standby terminal
1	J7	Cliff FC68405	Double cinch socket
1	J8	Amphenol 10129378-909001BLF	Header for TFT
1	J9	Schurter 4840.2201	DC socket
1	JP1	Jumper	2.54mm pitch (2-pin)
1	JP2	Jumper	2.54mm pitch (3-pin)
1	M1	TDQ-230V XR6686	10-pin with TEF6686
1	M2	ESP32-DOIT_DEVKIT_V1	30-pin version

Frontpanel:

1	TFT 320x240	2.2" ILI9341	https://www.tinytronics.nl/shop/nl/display/tft/2.2-inch-tft-display-240*320-pixels-ili9341
1	Potentiometer	10k	https://www.tinytronics.nl/shop/nl/componenten/weerstanden/10k%CF%89-potmeter-standaard
3	Pushbutton	NO	https://www.tinytronics.nl/shop/index.php?route=product/search&search=druknop%207mm

Tips

-	Resistors and capacitors are common parts
U1	Available at Mouser, Farnell, Digikey and your local stores. Make sure you order the PDIP-8. Optional you can use a PDIP8 IC-socket
U2	Available at Mouser, Farnell, Digikey and your local stores. Make sure you order the TO-220. Isolation on heatsink is not needed.
HS1	Available at Mouser, Farnell, Digikey and your local stores. You can also use another model (please take the size into account)
J1-J6	Available at Mouser, Farnell, Digikey and your local stores. You can also order a box with a collection of headers and sockets, like: https://www.tinytronics.nl/shop/nl/connectoren/jst/jst-xh-krimpstekker-en-behuizing-set
J7	Available at Mouser, Farnell, Digikey and your local stores. You can also use one from an old audio component (for example CD Player)
J8, JP1, JP2	Note, you need two jumpers and of course the pinheaders. Jumpers can be used from an old motherboard or harddisk. You can also buy a 40-way pinheader and snap it into pieces, like: https://www.tinytronics.nl/shop/nl/connectoren/pin-header/40-pins-header-male
M1	Available on Aliexpress from different sellers. Please buy the 10-pin tuner-can. Make sure you have one with the TEF6686. You can also use the version with the TEA685x. But this one doesn't support RDS. It is possible to replace the TEA685x with a TEF6686 (QFN32!)
M2	Make sure you use the 30-pin version. Like: https://www.tinytronics.nl/shop/nl/communicatie/bluetooth/esp32-wifi-en-bluetooth-board-cp2102 Also use headers, otherwise the module won't fit. Like 2x https://www.tinytronics.nl/shop/nl/connectoren/15-pins-header-female
Case	The PCB will slide into a Hammond 1455N1201 housing
Display cable	To connect the display with the PCB you can use these cables: https://www.tinytronics.nl/shop/nl/kabels/prototype-draden/dupont-jumper-draad-female-female-10cm-10-draden