TEF6686 FM radio

C3 100n
R1 4k7
+3V3
C4 100n
R2 4k7
+3V3
C5 100n
R3 4k7
+3V3

J2 ROTARY
1
2
3
4
5

J3 BW
1
2

J4 MODE
1
2

C9 100n
R8 4k7
C10 100n
R9 4k7
+3V3

J5 SQUELCH
1
2 +3V3
3

J6 STANDBY
1
2

C15 100n
C16 100n
R14 4k7
+3V3

JP1 PROGRAM MODE
+3V3

M2 DOIT_ESP32_DEVKIT_V1

16 EN   D23 15
17 VP   D22 14
18 VN   TX0 13
19 D34   RX0 12
20 D35   D21 11
21 D32   D19 10
22 D33   D18 9
23 D25   D5 8
24 D26   TX2 7
25 D27   RX2 6
26 D14   D4 5
27 D12   D2 4
28 D13   D15 3
29 GND   GND 2
30 VIN   3V3 1

+5V
C12 100n
C13 100n
+3V3

9.216MHz
CLOCK JP2
4.000MHz
+3V3

J8 TFT
9
8
7
6
5
4
3
2
1 +3V3

+3V3
C2 100n
R4 4k7
R5 4k7 R6 220
R7 220

+5V
C1 100n
C6 1n

J1 RF IN
2
1

M1 TDQ-230V XR6686
7 VDD
ANT 1
SCL 4
SDA 5
DAC-R 9
DAC-L 10
RF-GND 2
GND 8

C7 10uF
C8 10uF

R10 4k7
C11 10p
R11 100k
C14 10uF
U1A MCP6022
R13 4k7

R12 39k
C17 100n
+5V
R15 39k

R16 4k7
C18 10p
R17 100k
C19 100n
+5V
U1B MCP6022
R18 4k7
C20 10uF

J7 AUDIO OUT
1
2
3

J9 DC IN
1
3
2
C21 100n
U2 LF50_TO220
VI VO
GND
+5V
C22 2.2uF

http://www.pe5pvb.nl/

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