

Yaesu DTMF Mic YM-48

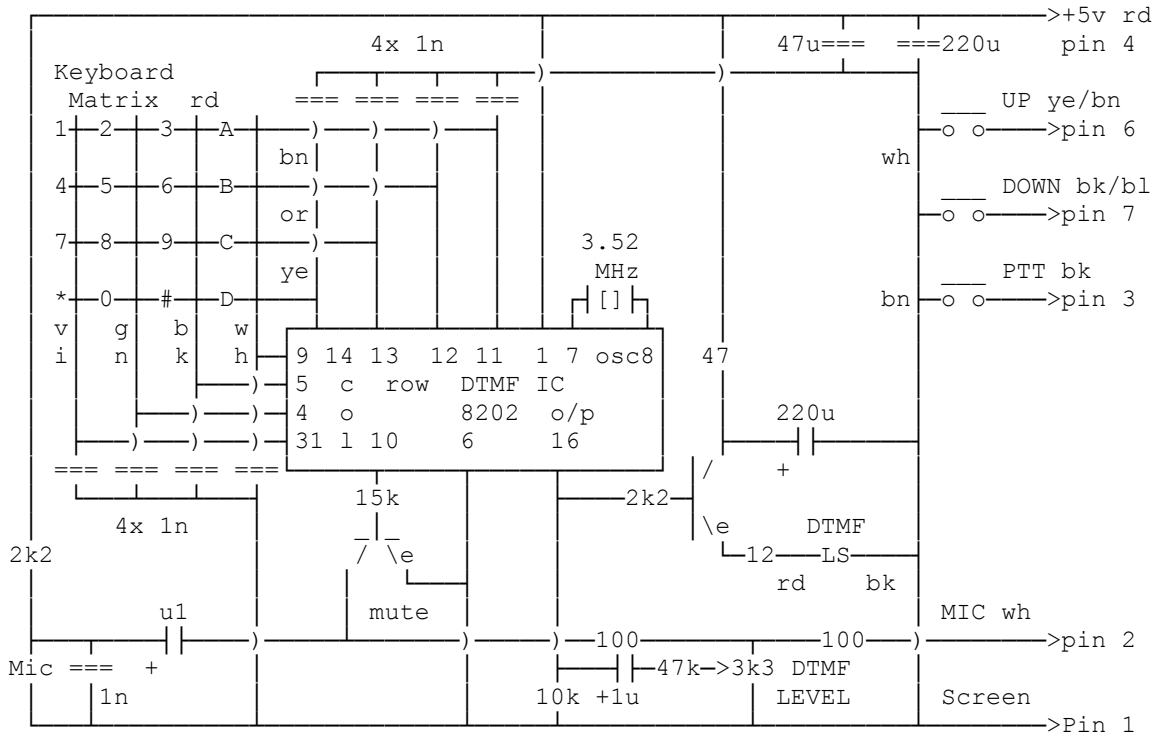
By G8MNY

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(8 Bit ASCII Graphics use code page 437 or 850)

I use mine with FT790/690/290 for DTMF control of a repeaters etc.

This is the diagram of the mic, I reverse engineered it ...



Here the UP & DOWN button are connected to earth, but they can be to +5V for some rigs! So check your rig handbook to see which it needs.

DTMF SYSTEM

This uses two pure sine wave tones controlled from a 4x4 keypad matrix, a low-frequency tone & a high-frequency tone, to specify 1 of the 16 options.

Pressing 2 keys in the same row/column, normal results in a single tone.

TONE HIGH	1209Hz	1336Hz	1477Hz	1633Hz
LOW				
697 Hz	1	2	3	A
770 Hz	4	5	6	B
852 Hz	7	8	9	C
941 Hz	*	0	#	D

Frequency tolerance: ±1.5%

The 2 tones must not clip & mix on the Tx/RF path/Rx as the DTMF Rx IC uses the presence of more than 2 tones to identify the signal non DTMF & ignores it.

Why Don't U send an interesting bul?

73 de John G8MNY @ GB7CIP