Yaesu DTMF Mic YM-48

By G8MNY (Revamp Nov 08)
(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
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