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MODEL: TC-16

tone controller: 16 Button Keypad DTMF Encoder

Description:

Tone controller is a self contained, DTMF (dual tone multiple frequency) encoder board with a [full size](#) 16 button keypad. The board has a standard RCA audio out jack and can either be powered with battery or through the 2.1mm DC IN jack.

Specifications:

- Dimensions: 2.8" x 3.0" x 1.5"
- Weight: 4.2 oz. (without 9 volt battery installed)
- Input voltage: 8.0 to 14.0 volts DC (17ma max, 10ma idle)
- Operating temperature: -20 C to +60 C
- Button contact life: 1,000,000 cycles per key
- Keys: 0123456789ABCD*#
- MIC Connector

Operation:

While pressing any one of the 16 keypad buttons a mixture of two sinewave tones are generated on the "AUDIO OUT" jack. (e.g. pressing "9" produces a simultaneous 852 Hz and 1477 Hz tone). If two or more buttons on the same row or the same column are pressed simultaneously then a single sinewave tone is generated. (e.g. pressing "1" and "4" simultaneously produces a 1209 Hz tone, pressing "3" and "A" simultaneously produces a 697 Hz tone).