



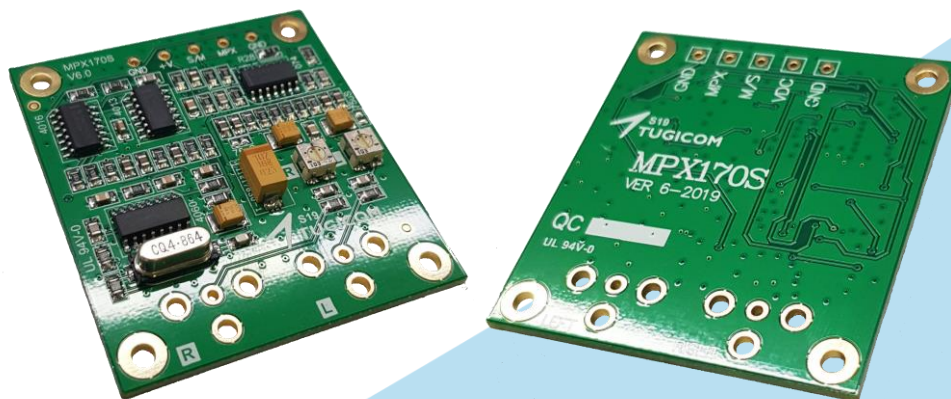
MPX170S Stereo Encoder

User Manual/Service

MPX170S HIGH QUALITY STEREO ENCODER

MPX170S stereo encoder provides excellent stereo separation while keeping low price, ease of use, and zero faults.

Just connect 12V-15V, audio input from every CD or computer and connect the MPX output to every MPX ready transmitter.



Features

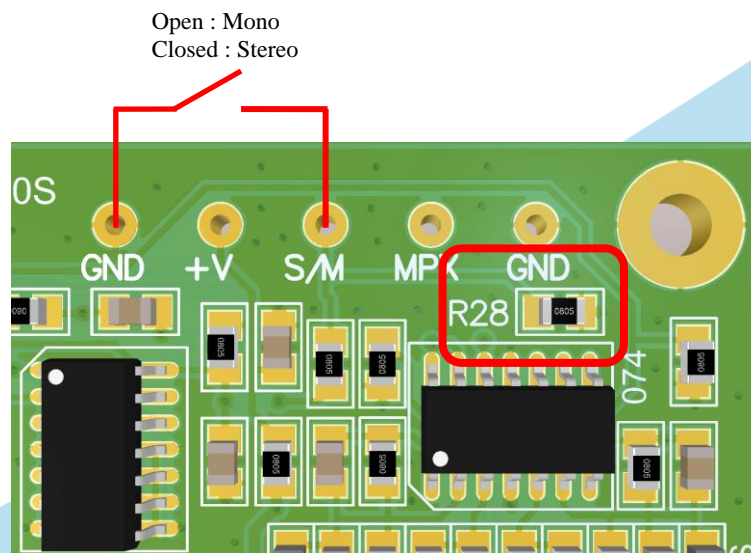
Full SMD design
Over 40dB separation - Typical 45dB
Operating from every 12-15V regulated voltage
Low Audio Distortion, less than 0.5%
Pilot Tone 19 KHz +/-3Hz
Audio Response 30Hz to 50 KHz +/-0.6dB
Pre-emphasis 50uS/75uS
Audio Inputs Standard Line Level 0dBu 775mV adjustable
No test equipment required for setting up transmitter
Built & tested - just plug & play!
Compact size: 2" X 2 1/4"

Installing and connecting

1. Install the MPX170S in your transmitter, for good connections to ground please use all screws.
2. Install the MPX170S far from power supply and RF source.
3. Connect DC regulated (DC+) supply to the VDC hole on the board.
4. Connect DC regulated (DC-) supply to the GND hole on the board.
5. Connect shield wire to the MPX out and the shield to the GND and the other side to any transmitter MPX input (TX180A).
6. Connect the audio source to the MPX170S RCA connectors.
7. Cancel the Audio pre-emphasis in your transmitter.
8. Before apply operating voltage check the polarity.
Apply operating voltage and adjust the audio level using the trimmers.
9. The MPX170S can be operated in Mono/Stereo modes.(next page)
10. Default Pre-emphasis is 50uS, for 75uS follow the next page.

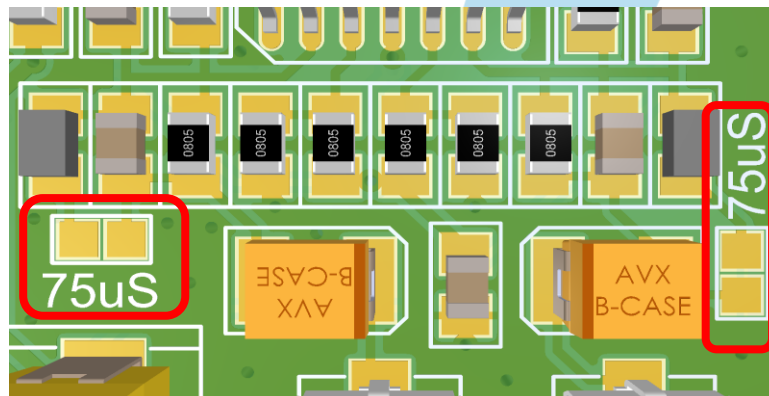
Switching to Mono/Stereo

1. In order to use this option, remove the resistor R28 which marked on the picture.
2. after removing the resistor, using S/M pin you can control the mode, when S/M is open circuit, the transmission will be in mono, when S/M is connected to GND the mode will be stereo.(shown in picture)



Changing Pre-Emphasis

1. Short the pads near the 75uS markings.



Thank you for purchasing one of our products.

Tugicom RF Design.

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