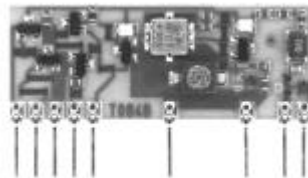


TRANSMITTER

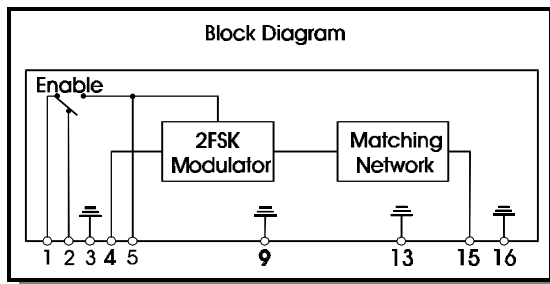
TX-DFM-12V 19200 bps Digital FM Transmitter Module

Digital FM (2FSK) SAW stabilized transmitter module suitable for use with its companion RX-DFM-3V3 receiver module. The TX-DFM-12V is ideally suited to directly transmit RS232 or TTL data. No special data encoding is required and there are no character and transmission time limitations as found on other devices. Maximum baud rate of 19200 bps with fast start-up time (less than 500 μ s).



Technical Specifications

- High-reliability SIL thick-film hybrid circuit ;
- Unmodulated Carrier Frequency (pin 4 = 0.5V max): 433.65 MHz obtained by SAW resonator;
- 2FSK modulation with $\Delta f = + 150$ KHz (pin 4= $+3-5V$);
- Maximum baud rate: 19200 bit/s;
- Square wave modulation frequency: 10KHz max;
- Dimensions: 40.6 x 19 x 3.5 mm. Pin pitch 2.54 mm;
- Start-up time less than 500 μ s
- RF output impedance: 50 Ω
- RF output power into 50 Ω load: <10 mW (<+10dBm);
- 15 mA (typical) consumption with TX enabled (pin 2 = $+3$ to 5V)
- Supply : +12V \pm 10% ;
- Zero consumption with TX disabled (pin 2 = 0. 5V max)
- TX disable facility using a TTL or CMOS signal ;
- Auxiliary supply output (12V, max. current 10mA) turned on by TX Enable (pin 2)



Pin Description

1	+12V
2	Tx Enable (+3V to 5V)
3,9,13,16	Ground
4	Data Output
5	Auxiliary Output
15	RF Output