AM TRANSMITTER MODULE

QAM-TX2

Features

- Complete RF Transmitter
- Transmit Range Up To 50m
- CMOS / TTL Input
- No Adjustable Components
- Very Stable Operating Frequency
- Low Current Consumption (Typ 11mA)
- Wide Operating Voltage (3-12v)
- ASK Modulation
- Available as 315 or 433 MHz

Applications

- Wireless Security Systems
- Car Alarms
- Remote Gate Controls
- Remote Sensing
- Data Capture
- Sensor Reporting

Description

The Quasar UK AM hybrid transmitter module provides a complete RF transmitter which can be used to transmit data at up to 3KHz from any standard CMOS/TTL source. The module is very simple to operate and offers low current consumption (typ. 12mA @5V). Data can be supplied directly from a microprocessor or encoding device, thus keeping the component count down and ensuring a low hardware cost. The modules are compatible with the Quasar UK Ltd. range of AM receivers to provide a complete solution.

Typical Application

For further information on this circuit please refer to the RF Solutions datasheet DS600

![Diagram]

Part Numbers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>QAM-TX2-433</td>
<td>AM Transmitter Module, 433MHz</td>
</tr>
<tr>
<td>QAM-TX2-315</td>
<td>AM Transmitter Module, 315MHz</td>
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</tbody>
</table>
Technical Specifications

Pin Dimensions

Pin Name Description
1 ANT External Antenna
2 Vcc Supply Voltage
3 IN Data input
4 GND Ground

Electrical Characteristics

Ambient temp = 25°C unless otherwise stated.

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Dimensions</th>
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<tbody>
<tr>
<td>Supply Voltage</td>
<td>3 - 12</td>
<td>Vdc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supply Current</td>
<td></td>
<td>mA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3V</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5V</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9V</td>
<td>16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12V</td>
<td>18</td>
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<tr>
<td>Working Frequency</td>
<td>433.92</td>
<td>MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time from Power on to data transmission</td>
<td>10</td>
<td>20</td>
<td>3,000</td>
<td>mS</td>
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<tr>
<td>Data Rate</td>
<td>200</td>
<td>1,000</td>
<td>3,000</td>
<td>Hz</td>
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<tr>
<td>Input Duty Cycle</td>
<td>45</td>
<td>55</td>
<td>%</td>
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<tr>
<td>Operating Temperature</td>
<td>-30</td>
<td>+60</td>
<td>°C</td>
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