
Wireless Narrow Band Transmitter Module (RF ASK)

**Version History**

| Version | Date | Changes |
|---------|--------------|---------------------------|
| V1.01 | Dec.28, 2002 | 1 st . Edition |
| V1.02 | Jul.3,2008 | 2 nd . Edition |

Model : TWS-CS-3

- Frequency Range: 418MHz
- Modulate Mode: ASK
- Circuit Shape: SAW
- Data Rate: 8kbps
- Supply Voltage: 2.5~12V
- Power Supply and All Input / Output Pins: -0.3 to 12.0V
- Non-Operating Case Temperature: -10 to +70°C
- Soldering Temperature (10 Seconds) : 230°C(10 Seconds)

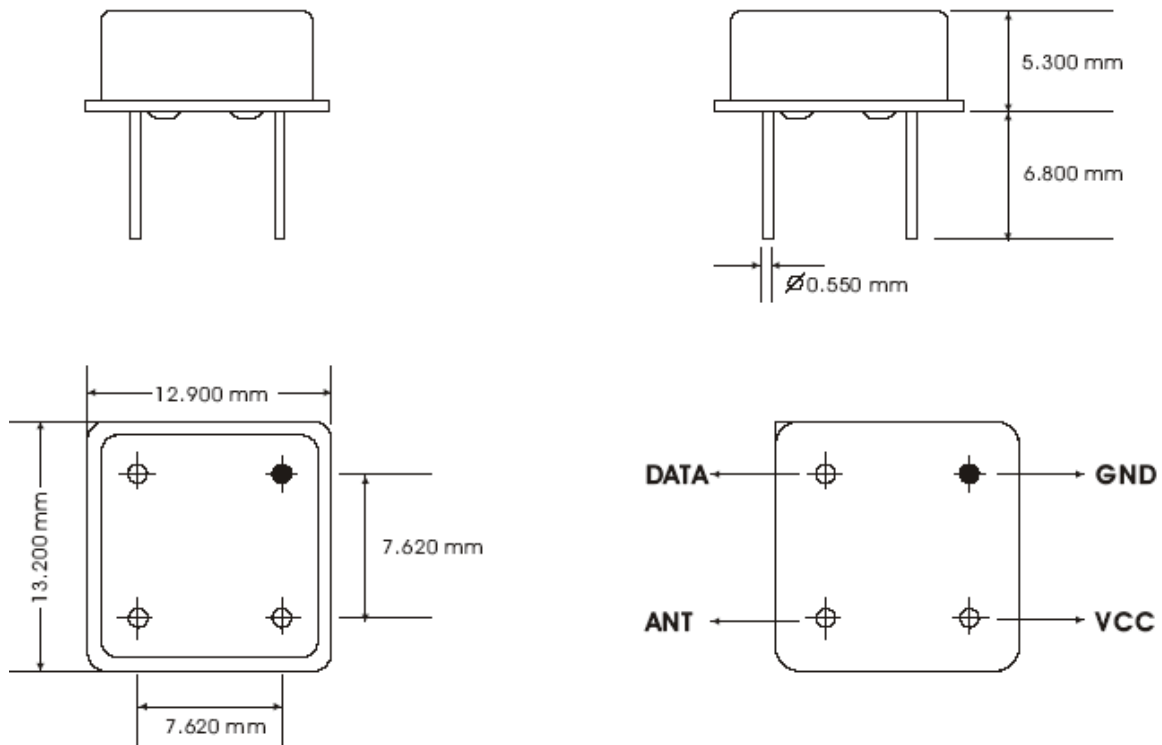
Absolute Maximum Rating

| Rating | Value | Unit |
|--|--------------|------|
| Power Supply and All Input/Output Pins | -0.3 to 12.0 | V |
| Non-Operating Case Temperature | -10 to +70 | °C |
| Soldering Temperature(10 seconds) | 230 | °C |

Electrical Characteristic

| Characteristic | Sym | Min | Type | Max | Unit |
|---|------------|-------|------|-------|------|
| Operating Frequency (±300KHz) | Vcc | 417.7 | 418 | 418.3 | MHz |
| Data Rate | ASK | | | 8K | Kbps |
| Transmitter Performance(OOK@2.4kbps) | | | | | |
| Peak Input Current,12 Vdc Supply | ITP | | | 35 | mA |
| Peak Output Power | PO | | 10 | | mW |
| Turn On/ Turn Off Time | ON/ OFF | | | 1 | US |
| Power Supply Voltage Range | Vcc | 3 | | 12 | VDC |
| Operating Ambient Temperature | TA | -10 | | +70 | °C |
| Tx Antenna Out 3V ~12V | | -1.7 | | 17 | dBm |

Size & Pin Assignment



Demo Circuit

