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**Wireless Narrow Band Transmitter Module (RF ASK)**

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**Version History**

Version	Date	Changes
V1.01	Dec.28, 2002	1 <sup>st</sup> . Edition
V1.02	Jul.3,2008	2 <sup>nd</sup> . Edition

**Model : TWS-CS-1**

- Frequency Range: 315MHz
- 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 )

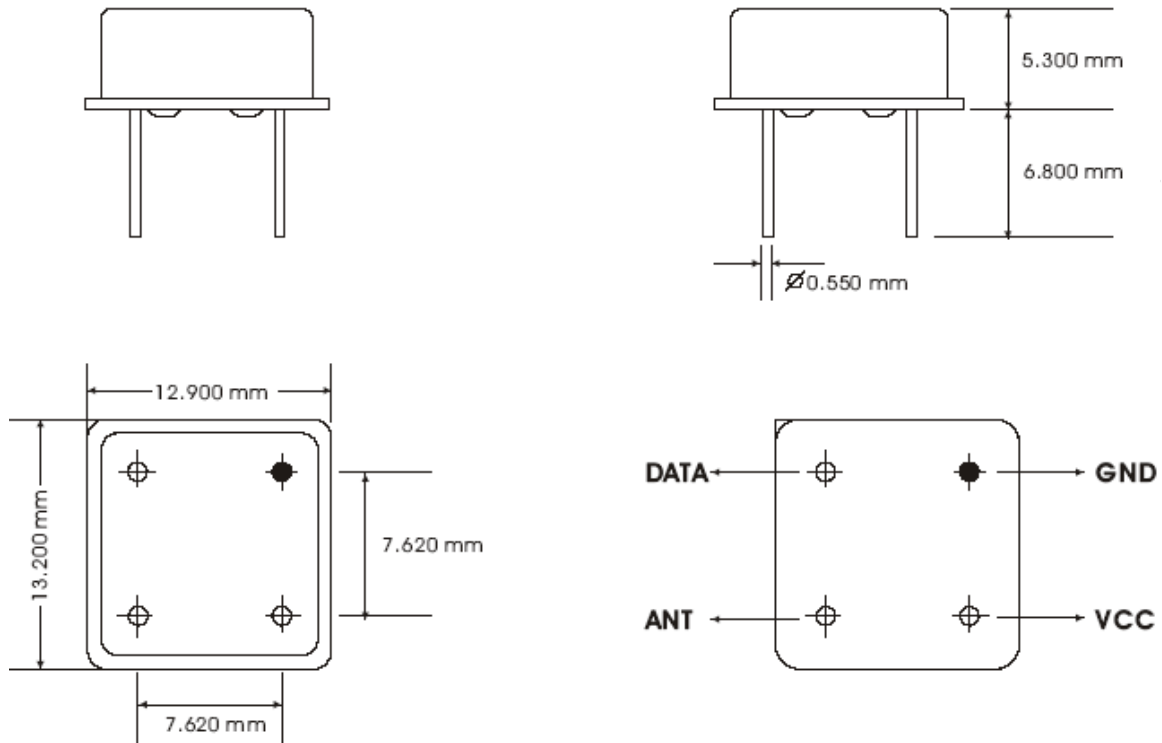
## Absolute Maximum Rating

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 ( $\pm 300\text{KHz}$ )	Vcc	314.70	315.00	315.30	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

