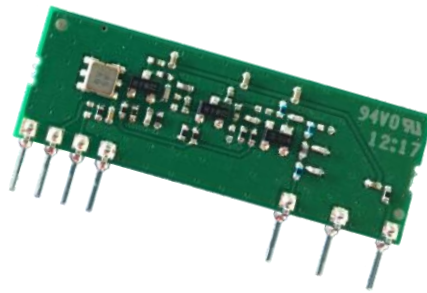


# Wireless Transparent Modules Datasheet

## 3200I387FV3

OOK TRANSMITTER 868.3 MHz

## Data Sheet



### Overview

Low cost, SAW-Resonator stabilized OOK transmitter in the 868 MHz SRD Band.  
Typical applications are Security Systems, Surveillance Systems, Data Transmission.

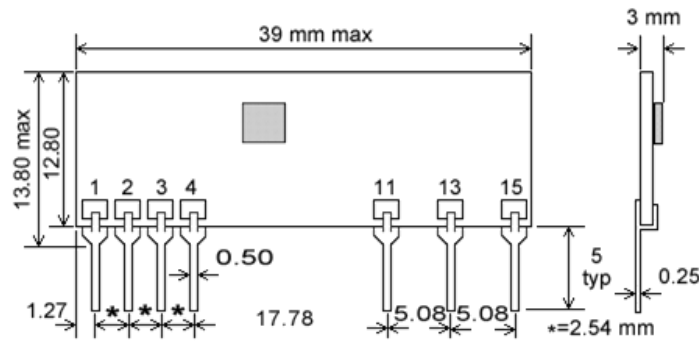
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### 1. Description

This module is a simply solution to transmit data at 868 MHz frequency in OOK modulation.  
 3 Volt version.  
 A "buffer" stage separates output from oscillator ensuring higher stability and low harmonic emissions.

### 2. Mechanical Dimensions



### 3. Pin Definition

- 1 = GND
- 2 = TX Data
- 3 = Not Connected
- 4 = GND
- 11 = RF Output (50 Ω)
- 13 = GND
- 15 = + Vcc

## 4. Electrical characteristics

### 4.1 Absolute Maximum Ratings

Parameter	Max.	Unit
Supply voltage, +Vcc, pin 15:	4.0	V
Pin 3, 4 voltage level respect to GND	+Vcc	V
Storage Temperature:	-40 ÷ 100	°C
Operating Temperature:	-20 ÷ 70	°C

### 4.2 Operating Condition

GENERAL ELECTRICAL CHARACTERISTICS @ 25 °C

Parameter	Min.	Typ.	Max.	Unit	Notes
Supply Voltage (Vcc)	2.1	3.0	3.3	V	
DC Current Drain	-	18	-	mA	See note 1
Operating Frequency	-	868.3	-	MHz	
Occupied Bandwidth	-	-	-	kHz	
Operating Channel Width	-	-	600	kHz	
Center Frequency Accuracy	-	±100	-	kHz	
Output Power	-	-	14	dBm	See note 1,2
Output impedance	-	50	-	Ω	
Baud Rate	-	-	9600	Baud	
Input Logic Low	-0.7	-	0.4	V	
Input Logic High	0.95*Vcc	-	1.05*Vcc	V	

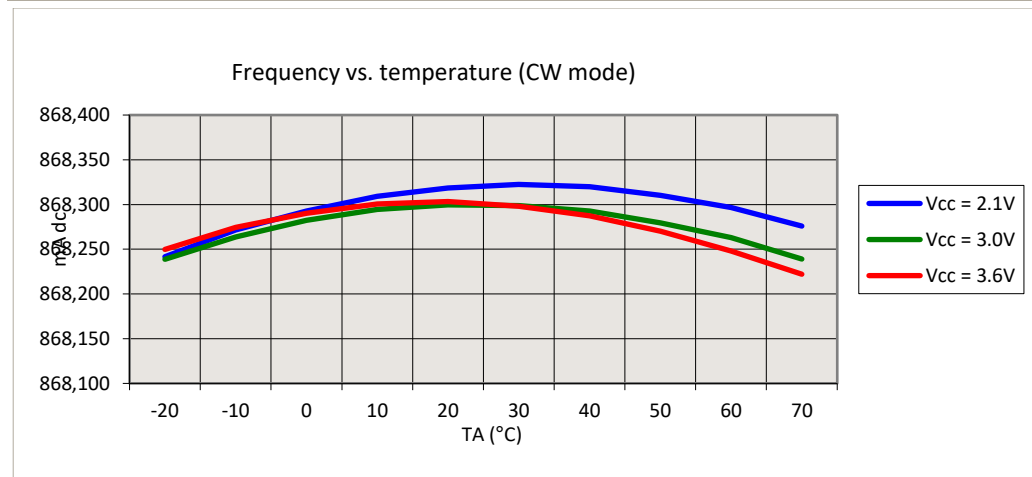
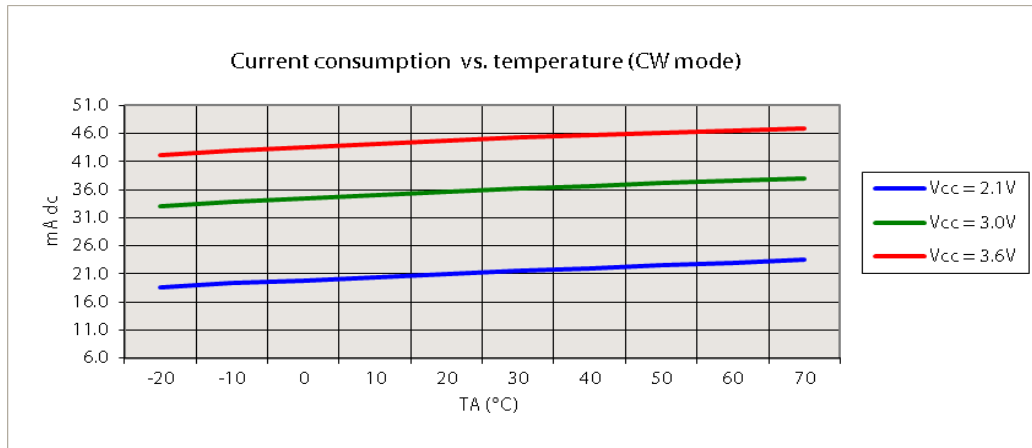
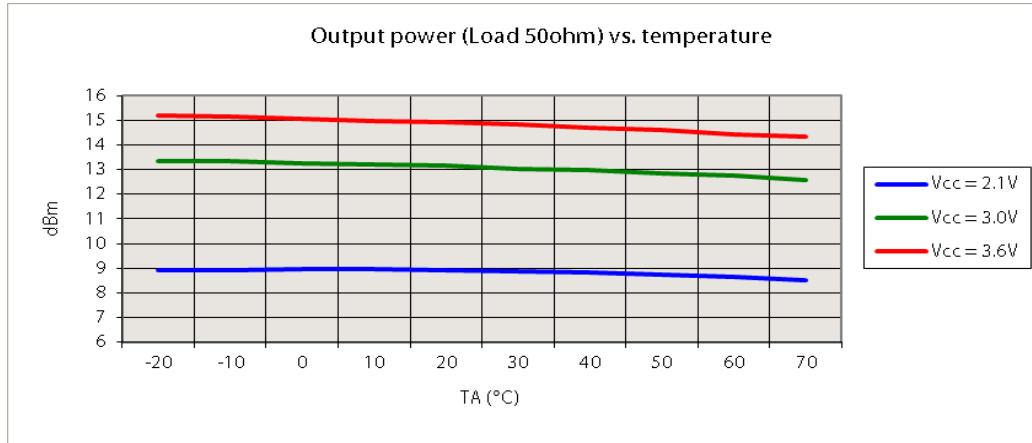
#### 4.2.1 Notes:

**Note 1:** +Vcc = 3 V, 2.4 kHz square wave modulation 0-3 V, duty-cycle 50 %, logic “1” = 3 V.

**Note 2:** The output power is dependent upon logic “1” level.

### 4.3 Temperature Range Curves

**Note:** All RF parameters measured with input (pin 8) connected to a 50-Ω impedance signal load.



**Note:** All graphs must be considered as indicative typical results in accordance with temperature variation.

## 5. Application Notes

Title	Description	Doc

## 6. Regulatory Approvals

Doc	Title	Description
32001387FV3_DoC.pdf	Declaration of Conformity	Declaration of the conformity with the essential requirements of the European Directive 2014/53/EU

## 7. Revision History

Revision	Date	Description
1.0	16.07.2019	Preliminary
1.2	27.11.2020	Final Release