

# 5 V OOK TRANSMITTER 433.92 MHz / 50-Ω OUTPUT

Product Code: **32001387**



**DESCRIPTION:**

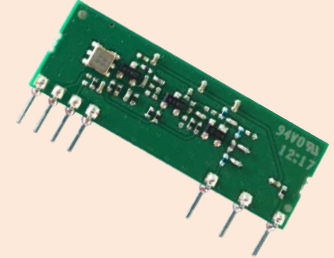
OOK transmitter, SAW-Resonator stabilized carrier frequency. A “buffer” stage separates output from oscillator ensuring higher stability and low harmonic emissions.

**HIGHLIGHTS:**

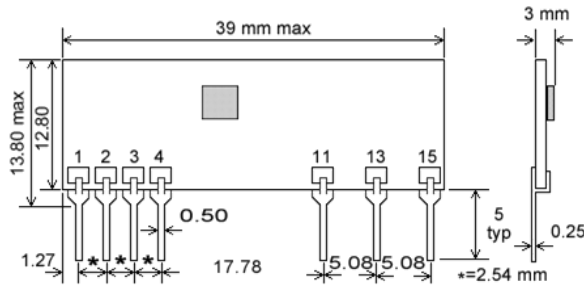
Developed according to **ETSI EN 300 220** European Standard. The module meets with the Radio Equipment Directive **(RED) 2014/53/EU**. Compliant with **REACH** and **RoHS** directives.

**APPLICATIONS:**

Security Systems, Surveillance Systems, Data Transmission etc.



**MECHANICAL CHARACTERISTICS**



*Pin functions:*

- 1 = GND
- 2 = Tx DATA
- 3 = NOT CONNECTED
- 4 = GND
- 11 = RF Output(50 Ω)
- 13 = GND
- 15 = +Vcc

**ABSOLUTE MAXIMUN RATINGS**

Supply voltage, +Vcc, pin 1:

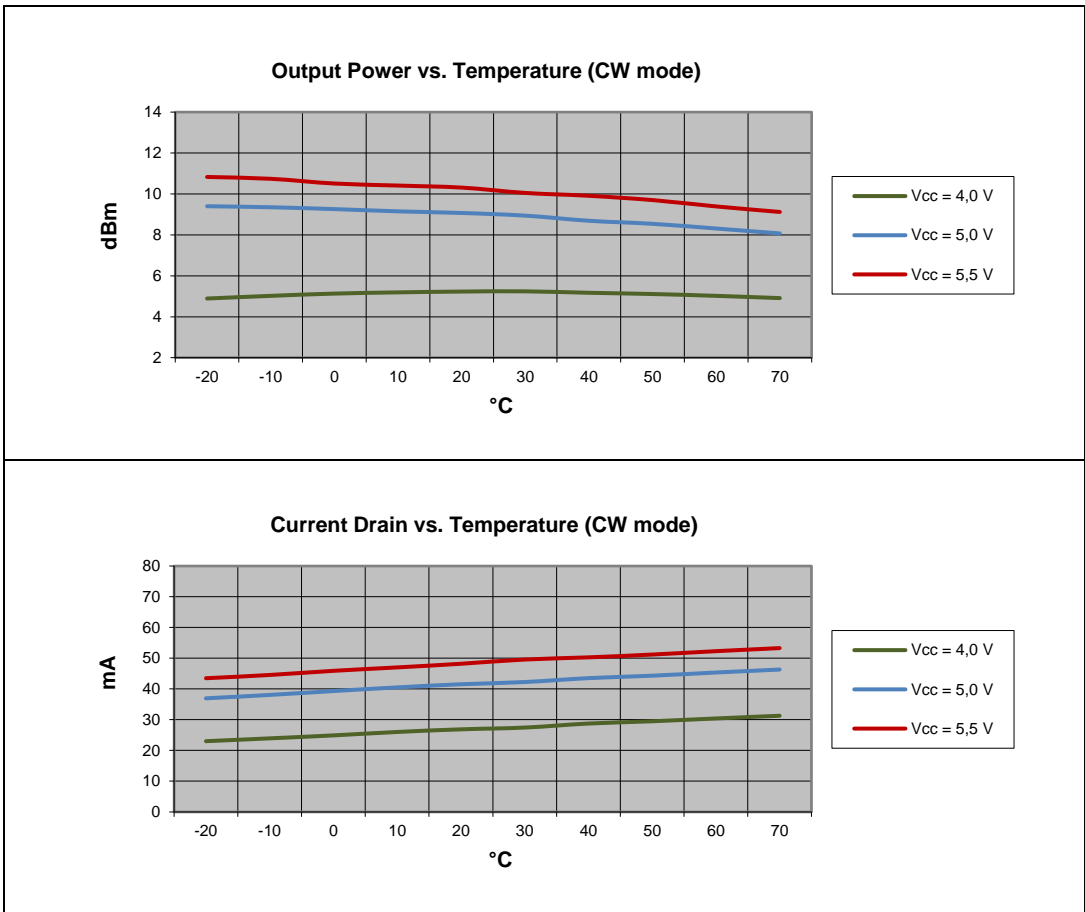
Pin 3 – 4 level to GND: +Vcc

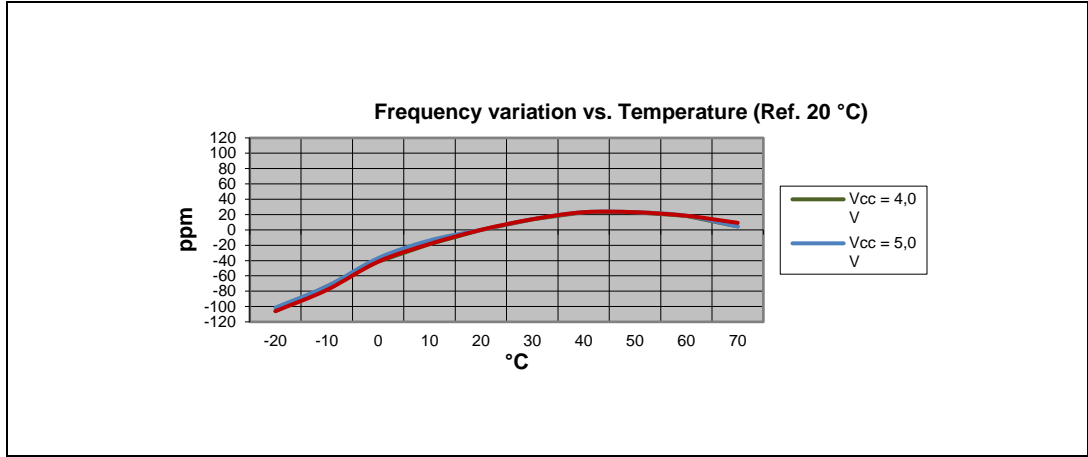
Storage Temperature: -40 ÷ 100 °C

Operating Temperature: -20 ÷ 70 °C

ELECTRICAL CHARACTERISTICS @ 25 °C					
Parameter	Min.	Typ.	Max.	Unit	Notes
Power Supply Voltage (+Vcc)	4.0	5.0	5.5	V	
Current Drain	-	8	-	mA	1
Stand-by current	-	10	-	nA	
Operating frequency	-	433.92	-	MHz	
Occupied Band Width	-	-	35	kHz	1
Operating Channel Width	-	-	200	kHz	
Output power (on 50-Ω load)	-	-	10	dBm	1, 2, 3
Output Impedance	-	50	-	Ω	
Baud rate	-	-	4800	Baud	
Input Logic low	-0.7	-	0.4	V	
Input Logic high	0.95 * Vcc	-	1.05 * Vcc	V	

TYPICAL CHARACTERISTICS (\*)





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

**Note 1:** Vcc = 5 V; modulation is 0-5 V pseudo random code NRZ 4800 Baud, high logic level = 5 V.

**Note 2:** Output power depends on the high logic level value.

**Note 3:** In order to not exceed the maximum power permitted by the ETSI EN 300 220 regulation, choose an appropriate antenna system and power supply.

#### APPLICATION NOTE

N.A.

#### REVISION HISTORY

Revision	Date	Description
0	26-11-2020	First issue