

DOUBLE STAGE AM TRANSMITTER

433.92 MHz - 50Ω Output / Cod. 2-5000856

DESCRIPTION:

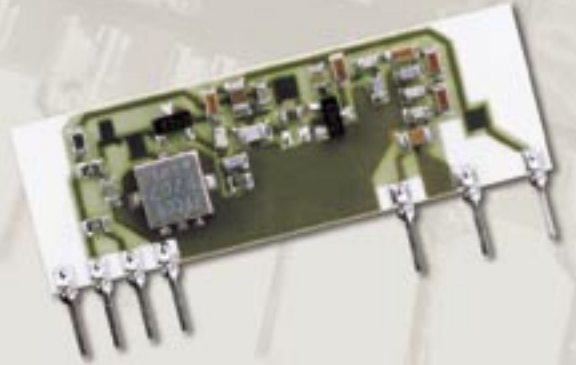
Double stage AM Transmitter, it has a separated oscillator SAW stage and a booster stage to improve the output power. Manufactured in Thick Film Tecnology on Ceramic substrate.

HIGHLIGHTS:

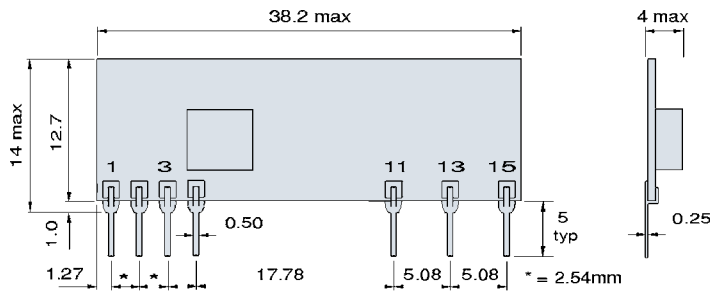
Stand-by supply current lower than 0.1μA.
Wide power supply range. Developed according to I-ETS 300 220 and ETS 300 683 European Standard.
Tx data input (pin 2) is TTL or CMOS logic compatible.
No tuning elements, that is immunity to mechanical shock and vibration.

APPLICATIONS:

Domestic Security, Surveillance Systems,
Data Transmission, and more.



MECHANICAL CHARACTERISTICS



Pin functions

- 1 = GND
- 2 = Tx DATA
- 3 = Tx DATA (Note 3)
- 4 = GND
- 11 = RF Output (50Ω)
- 13 = GND
- 15 = Vcc

ABS. MAX. RATINGS

Supply, +Vcc, pin 15:	+ 15 Volt
Voltage, with respect to GND on pin 2,3:	+ 15 Volt
Storage Temperature:	- 40 ÷ + 100 °C
Operating Temperature:	- 20 ÷ + 70 °C

ELECTRICAL CHARACTERISTICS AT 25 °C :

Parameter	Min.	Tip.	Max	Unit	Notes
Power Supply (Vcc)	5	-	12	Volt	
Supply Current	-	6.5	7.5	mA	Note 1
Carrier Frequency	433.82	433.92	434.02	MHz	Note 2
Output Power (carico 50Ω)	-	10	-	dBm	
Logic Low	-0.7	0.05	0.2	Volt	
Logic High	4.5	5	12	Volt	
Start-up time	-	40	-	usec	
Baud Rate	-	-	19200	Baud	

Note 1: con+Vcc = 5V, 1 kHz square wave modulation 0-5 V, duty-cycle 50%

Note 2: a 434.42 MHz version is available on request

Note 3: for High Level > 5V modulation use pin 3.

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