

Remote controls and Radio Alarms.

434 and 868 MHz

Now it is possible to improve quality and performances reducing cost of production.

How?

Employing the new Transmitter unit BT17 and BT18. With latest new STE design of Tx SRD modules it is now possible to increase performances and reduce cost of manufacture for any kind of 434 or 868 MHz low cost remote controls.

1. The new BT17 and BT18 modules, based on a proprietary and innovative design, are 2 stages (oscillator and P.A.) Tx unit with high RF output power, excellent stability, small dimensions, perfect to be embedded in remote controls and compact alarm Tx unit.
2. The BT17 and BT18 are available in many different configurations and supplied in 3 different mechanical versions: DIL, PIN (horizontal mounting versions) or either in the newest SMT advanced version especially designed for SMT production.
3. BT17 and 18 are supplied on six different frequencies, (in the 434-868 MHz bands) and with operative tensions of 3V, 5V or 9-12V.
4. All RF's typical problems as lack in RF output power, frequency, tolerance, spurious oscillations, etc. are solved by STE.
5. Compliance with ETSI specs and conformity to the R-TTE Directive are also problems solved by STE (with the guarantee of production controls).

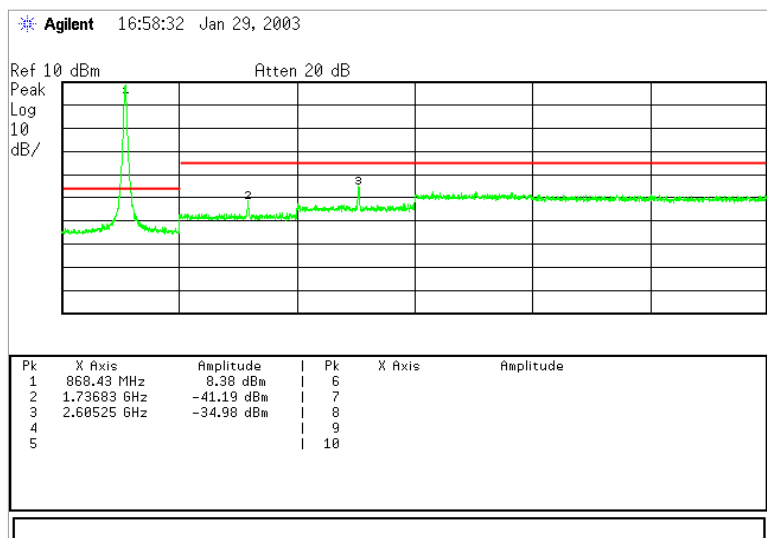
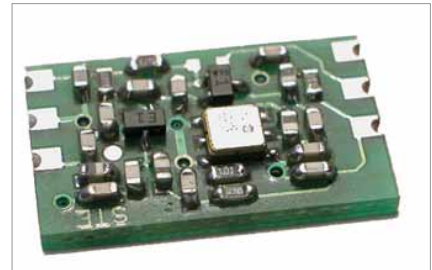


Fig.1 - Compliance test on harmonic emissions levels (EN300-220-3, clause 8.7.4) made in STE laboratories on a custom key-fob transmitter unit.

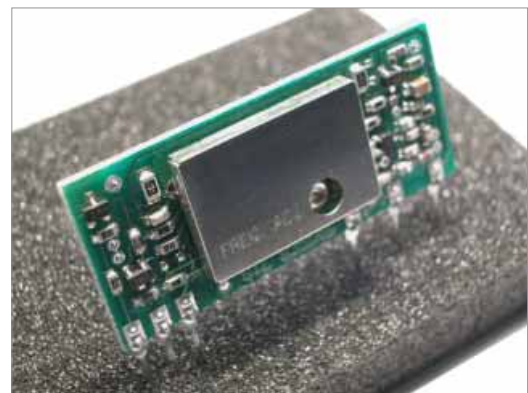
THE "5th" SERIES: NEW DESIGN.

The BT57/58 and BR57/58 XTAL controlled TX and RX units (based on the popular INFINEON TDA5110 and TDA 5210 PLL I.C.) had been completely redesigned with reduced dimensions and improved performances.

BR57 - BR58 Receiver Modules with high IF selectivity BT17 and BT18 low cost transmitter compatible.

The BR57 and BR58 high IF selectivity superhet receivers can be employed not only with the companion BT57 and BT58 transmitter modules, but also with the new low cost and compact BT17 and BT18 modules.

This is due to the tight frequency tolerances and low temperature drift of the new compact (3x3 mm) SAW resonators employed on the BT 17 and BT 18 units.



Typical applications with suggested distance performances of STE Tx-Rx modules.

Application	Range/efficiency	Receiver	Transmitter
Simple/low cost "Indoor" Applications	10 m "Indoor"	BR47 / BR48	BT17 / BT18
Medium range gates or doors openers	50-100 m	BR47 / BR48 BR57 / BR58	BT17 / BT18
High performances door openers or remote controls	100-200 m	BR57 / BR58	BT57 / BT58
Professional wireless data transmission and radio controls	100-200 m	BR57 / BR58	BT57 / BT58
Domestic security wireless alarms	10-20 m "Indoor"	BR57 / BR58	BT17 / BT18
Professional remote wireless alarms	20-50 m "Indoor"	BR57 / BR58	BT57 / BT58
High security systems	200-500 m 50-100 m	BR37 / BR38	BT37 / BT38