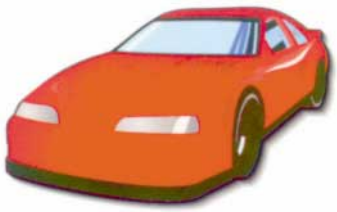
remote control and

security systems

hybrids



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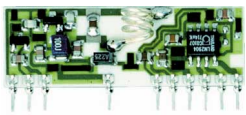
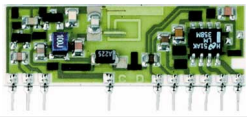
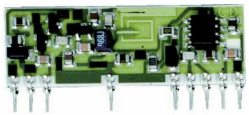
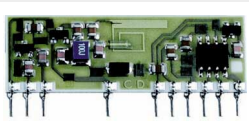
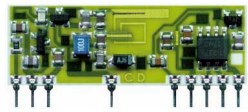
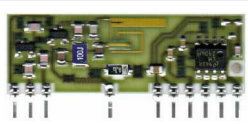
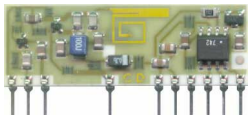
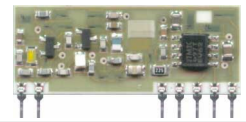
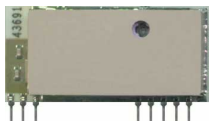
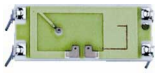
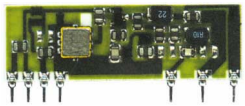
AM Super Regenerative Receivers

MODEL	DESCRIPTION	Vdc Is	Sensitivity	Frequency (XXX)	-3dB BW	Turn on Time	
RR1-XXX Fixed Frequency Super Regenerative Radio Receiver	Custom-specified working frequency range: 200 to 450 MHz	5V 2.5mA	-103 dBm	315 418 433.92 MHz	+/- 2 MHz	< 1.2 sec	 Dimensions: 38.1 x 12.7 mm
RR3-XXX Laser Trimmed Inductor Super Regenerative Radio Receiver	Frequency tuning by laser trimmed coil **I-ETS 300-220 Compliance** **FCC 15/C Compliance**	5V 2.5mA	-103 dBm	315 418 433.92 MHz	+/- 2 MHz	< 1.2 sec	 Dimensions: 38.1 x 12.7 mm
RR4-XXX Cascode Input Stage Super Regenerative Radio Receiver	Frequency tuning by laser trimmed coil Low level of emitted spectrum **I-ETS 300-220 Compliance**	5V 2.5mA	-105 dBm	315 418 433.92 MHz	+/- 1.5 MHz	< 2 sec	 Dimensions: 38.1 x 12.7 mm
RR6-XXX Very Low Consumption Super Regenerative Radio Receiver	Frequency tuning by laser trimmed coil Very low current consumption Fast turn on time **I-ETS 300-220 Compliance**	5V 0.5mA	-95 dBm	315 418 433.92 MHz	+/- 1.5 MHz	< 150 msec	 Dimensions: 38.1 x 12.7 mm
RR8-XXX 3V Supply Voltage Super Regenerative Radio Receiver	Frequency tuning by laser trimmed coil Very low current consumption 3V supply voltage **I-ETS 300-220 Compliance**	3V 0.5mA	-90 dBm	315 418 433.92 MHz	+/- 1.5 MHz	< 150 msec	 Dimensions: 38.1 x 12.7 mm
RR10-XXX Narrow Bandwidth Super Regenerative Radio Receiver	Frequency tuning by laser trimmed coil Low current consumption Narrow bandwidth **I-ETS 300-220 Compliance**	5V 1.2mA	-102 dBm	315 418 433.92 MHz	+/- 1.2 MHz	< 1.2 sec	 Dimensions: 38.1 x 12.7 mm
RR11-XXX Very Low Consumption Super Regenerative Radio Receiver	Frequency tuning by laser trimmed coil Very low current consumption Fast turn on time	5V 0.3mA	-95 dBm	315 418 433.92 MHz	+/- 1.5 MHz	< 150 msec	 Dimensions: 38.1 x 12.7 mm
RR13-868 868.35 MHz Super Regenerative Radio Receiver	Frequency tuning by laser trimmed capacitor Very low current consumption Fast turn on time	5V 0.5mA	-90 dBm	868.35 MHz	+/- 2 MHz	< 150 msec	 Dimensions: 33.02 x 12.7 mm
RR15-XXX Super Regen. Radio Receiver - Front End SAW Filter - Shielded	RX with saw front-end filter to reduce RF Bandwidth EMI immunity improved by a metal shield **I-ETS 300-220 Compliance**	5V 4.0mA	-102 dBm	433.92 MHz	+/- 250 KHz		 Dimensions: 40.64 x 19.1 mm

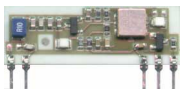
Note:
The RR.. receivers family can be utilized with all transmitters of RT.. serie.

AM Radio Transmitters

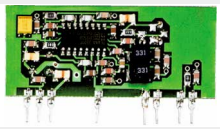
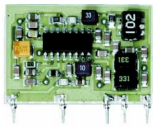
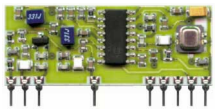
MODEL	DESCRIPTION	Vdc	Is	Frequency (XXX)	Po	Data Rate	
RT1-XXX Integrated Antenna Radio Transmitter Module	Thick Film RF transmitter module with LC oscillator and integrated antenna. Frequency tuning by antenna laser trimming process	9 - 14 V	3 mA	418 433.92 MHz	-10 dBm	9.6 Kbit/s	 Dimensions: 19.0 x 7.6 mm
RT2-XXX Radio Transmitter Module with SAW Resonator Inegrated Antenna	Very small thick film RF transmitter module with SAW controlled oscillator and integrated antenna.	4 - 14 V	3 mA	418 433.92 MHz	-20 dBm	9.6 Kbit/s	 Dimensions: 17.8 x 10.2 mm
RT4-XXX Radio Transmitter Module with SAW Resonator and External Antenna	Very small thick film DIL RF transmitter module with SAW controlled oscillator and external antenna. **I-ETS 300-220 Compliance**	2 - 14 V	4 mA	315 418 433.92 MHz	+7 dBm	9.6 Kbit/s	 Dimensions: 17.8 x 10.2 mm
RT5-XXX Radio Transmitter Module with SAW Resonator and External Antenna	Very small thick film SIL RF transmitter module with SAW controlled oscillator and external antenna. **I-ETS 300-220 Compliance**	2 - 14 V	4 mA	315 418 433.92 MHz	+7 dBm	9.6 Kbit/s	 Dimensions: 17.8 x 11.4 mm
RT6-XXX Radio Transmitter Module with SAW Resonator and External Antenna	Thick film SIL RF transmitter module with SAW controlled oscillator and external antenna.	3 - 14 V	7 mA	315 418 433.92 MHz	+7 dBm	9.6 Kbit/s	 Dimensions: 38.1 x 12.2 mm
RT8-868 Radio Transmitter Module with SAW Resonator and External Antenna	Thick film SIL RF transmitter module with SAW controlled oscillator and external antenna.	3 - 14 V	12 mA	868.35 MHz	+7 dBm	9.6 Kbit/s	 Dimensions: 35.6 x 11.4 mm

Note:
RT1 transmitter can be utilized with all receivers of RR.. serie.
RT2 .. RT6 transmitters family can be utilized with all receivers of RR.. , RRS.. and RRQ.. series.
RT8 transmitter can be utilized with RR13 receiver.

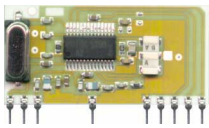
FM Radio Transmitters

MODEL	DESCRIPTION	Vdc	Is	Frequency (XXX)	Po	Data Rate	
RTF2-XXX FSK Radio Transmitter Module with SAW Resonator	Thick film RF transmitter module with SAW controlled oscillator and external antenna. **I-ETS 300-220 Compliance**	3 - 14 V	15 mA	315 433.92 MHz	+7 dBm	9.6 Kbit/s	 Dimensions: 38.1 x 12.7 mm
RTF6-XXX FSK Radio Transmitter Module with SAW Resonator	Very small thick film RF transmitter module with SAW controlled oscillator and integrated antenna.	3 - 14 V	15 mA	315 433.92 MHz	+7 dBm	9.6 Kbit/s	 Dimensions: 30.48 x 10.16 mm

AM Superhet Receivers - SAW Controlled

MODEL	DESCRIPTION	Vdc Is	Sensitivity	Frequency (XXX)	-3dB BW	Data Rate	
RRS1-XXX AM Superhet Receiver with SAW Front End Filter	Superhet data receiver with SAW front end filter SAW controlled oscillator **I-ETS 300-220 Compliance**	5V 3.7mA	-100 dBm	315 418 433.92 MHz	+/- 200 KHz	4.8 Kbit/s	 Dimensions: 45.7 x 19.0 mm
RRS2-XXX AM Superhet Receiver	Low cost AM superhet data receiver with LC front end filter SAW controlled oscillator	5V 3.7mA	-102 dBm	315 418 433.92 MHz	+/- 400 KHz	4.8 Kbit/s	 Dimensions: 30.5 x 20.3 mm
RRS3-XXX AM Superhet Receiver with preAmp Front End Filter	High sensitivity AM superhet data receiver. SAW controlled oscillator **I-ETS 300-220 Compliance** **FCC 15/C Compliance**	5V 5mA	-106 dBm	315 418 433.92 MHz	+/- 400 KHz	4.8 Kbit/s	 Dimensions: 38.1 x 14.5 mm

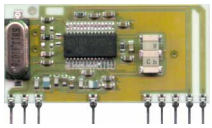
AM Superhet Receivers - Crystal Controlled

MODEL	DESCRIPTION	Vdc Is	Sensitivity	Frequency (XXX)	-3dB BW	Data Rate	
RRQ1-XXX **RRQ2-XXX** AM Superhet Receiver	AM Superhet data receiver with PLL and crystal oscillator RRQ2 model: squelch circuit integrated **I-ETS 300-220 Compliance** **FCC 15/C Compliance**	5V 5mA	-107 -107 -102 dBm	315 433.92 868.35 MHz	+/- 200 KHz	4.8 Kbit/s	 Dimensions: 38.1 x 18.3 mm

AM Radio Transmitters - Crystal Controlled

MODEL	DESCRIPTION	Vdc	Is	Frequency (XXX)	Po	Data Rate	
RTQ1-XXX Radio Transmitter Module with Crystal Oscillator and	Very small thick film DIL RF transmitter module with crystal oscillator and external antenna. **I-ETS 300-220 Compliance**	2.1 - 4 V	7 mA	315 433.92 868.35 MHz	+5 +5 +1 dBm	9.6 Kbit/s	 Dimensions: 20.32 x 11.43 mm

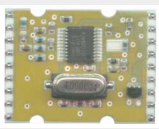
FM Superhet Receivers - Crystal Controlled

MODEL	DESCRIPTION	Vdc Is	Sensitivity	Frequency (XXX)	-3dB BW	Data Rate	
RRFQ1-XXX FSK Superhet Receiver	FSK Superhet data receiver with PLL and crystal oscillator Available Frequency: 315, 433.9, 868.35 MHz **I-ETS 300-220 Compliance**	5V 5.7mA	-102 dBm	315 433.92 868.35 MHz	+/- 200 KHz	4.8 Kbit/s	 Dimensions: 38.1 x 18.3 mm

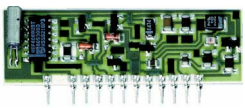
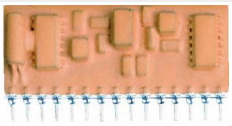
FM Radio Transmitters - Crystal Controlled

MODEL	DESCRIPTION	Vdc	Is	Frequency (XXX)	Po	Data Rate	
RTFQ1-XXX FSK Radio Transmitter Module with Crystal Oscillator and External Antenna	Very small thick film SIL RF transmitter module with SAW controlled oscillator and external antenna	2.1 - 4 V	7 mA	315 433.92 868.35 MHz	+5 +5 +1 dBm	9.6 Kbit/s	 Dimensions: 20.32 x 11.43 mm

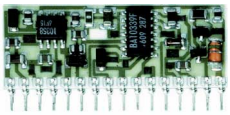
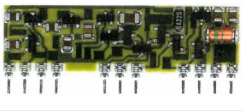
FM Radio Transceivers - Crystal Controlled

MODEL	DESCRIPTION	Vdc	Is	Frequency (XXX)	Sens / Po	Data Rate	
RXQ1-433.9 Dual Band FM Transceiver	Half duplex radio transceiver module with two RF channels selectable by external pin.	2.7 - 5.25 V	12 (RX) 26 (TX) mA	433.92 434.33 MHz	-100 / +5 dBm	20 Kbit/s	 Dimensions: 30.48 x 22.86 mm

Ultrasonic Transmitter / Receivers

MODEL	DESCRIPTION	Vdc	Is	Frequency	Gain	Out sink current	
UTR1 Ultrasonic Transmitter Receiver	Thick Film hybrid circuit that allows to realize an ultrasonic detector adding few external components.	9 - 16 V	9 mA	40 KHz	50 dB	100 mA	 Dimensions: 48.3 x15.2 mm
UTR2 Ultrasonic Transmitter Receiver	Thick Film hybrid circuit that allows to realize an ultrasonic detector adding few external components.	9 - 16 V	15 mA	40 KHz	50 dB	20 mA	 Dimensions: 38.8 x 17.0 mm
UTR3 Ultrasonic Transmitter Receiver	Thick Film hybrid circuit that allows to realize an ultrasonic detector adding few external components.	9 - 16 5 V	2 3 mA	40 KHz	50 dB	1 mA	 Dimensions: 38.8 x 17.0 mm

Infrared Devices

MODEL	DESCRIPTION	Vdc	Is	Amplifier bandwidth	Gain	Out sink current	
PID1 Passive Infrared Detector	Thick Film hybrid circuit that allows to realize a passive infrared detector adding few external components.	9 - 16 V	5 mA	1 - 10 Hz	70 dB	20 mA	 Dimensions: 40.6 x 15.2 mm
IRT1 Infrared Pulse Transmitter	Thick Film hybrid circuit that allows to realize an infrared barrier when utilized with an infrared pulse detector (IRD1).	9 V	35 mA		pulse frequency 400 Hz		 Dimensions: 12.7 x 16.9 mm
IRD1 Infrared Pulse Detector	Thick Film hybrid circuit that allows to realize an infrared barrier when utilized with an infrared pulse transmitter (IRT1).	12 / 24 V	3 mA		pulse frequency 400 Hz	20 mA	 Dimensions: 38.1 x 10.9 mm

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