
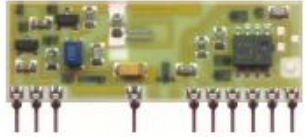





















## AM Super Regenerative Receivers

MODEL	DESCRIPTION	Vdc Is	Sensitivity	Frequency (XXX)	-3dB BW	Turn on Time	Coating	
 <b>RR3-XXX</b> Laser Trimmed Inductor	Frequency tuning by laser trimmed coil XXX also : 224.5 & 403.5 Mhz <b>I-ETS 300-220 Compliance</b> <b>FCC 15/C Compliance</b>	5V 2.5mA	-103 dBm	315 418 433.92 MHz	+/- 2 MHz	< 1.2 sec	Y	 Dimensions: 38.1 x 12.7 mm
 <b>RR4-XXX</b> Cascode Input Stage	Frequency tuning by laser trimmed coil Low level of emitted spectrum <b>I-ETS 300-220 Compliance</b>	5V 2.5mA	-105 dBm	315 418 433.92 MHz	+/- 1.5 MHz	< 2 sec	Y	 Dimensions: 38.1 x 12.7 mm
 <b>RR10-XXX</b> Narrow Bandwidth	Frequency tuning by laser trimmed coil Low current consumption Narrow bandwidth <b>I-ETS 300-220 Compliance</b>	5V 1.2mA	-102 dBm	315 418 433.92 MHz	+/- 1.2 MHz	< 1.2 sec	Y	 Dimensions: 38.1 x 12.7 mm
<b>RR19-433</b> Front End SAW Filter	RX with saw front-end filter to reduce RF Bandwidth EMI immunity improved by a metal shield	5V 3.0mA	-103 dBm	433.92 MHz	+/- 300 KHz		N (see note)	 Dimensions: 40.64 x 16.51 mm










## AM Super Regenerative Receivers - Low Consumption

	<b>RR6-XXX</b> Very Low Consumption	Frequency tuning by laser trimmed coil Very low current consumption Fast turn on time <b>I-ETS 300-220 Compliance</b> <b>FCC 15/C Compliance</b>	5V 0.5mA	-95 dBm	315 418 433.92 MHz	 +/- 1.5 MHz	< 150 msec	Y	 Dimensions: 38.1 x 12.7 mm
	<b>RR8-XXX</b> 3V Supply Voltage	Frequency tuning by laser trimmed coil Very low current consumption 3V supply voltage <b>I-ETS 300-220 Compliance</b>	3V 0.5mA	-90 dBm	315 418 433.92 MHz	 +/- 1.5 MHz	< 150 msec	Y	 Dimensions: 38.1 x 12.7 mm
	<b>RR11-XXX</b> Very Low Consumption	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	N (see note)	 Dimensions: 38.1 x 12.7 mm
	<b>RR18-XXX</b> Very Low Consumption Front End SAW Filter	RX with saw front-end filter 70uA current consumption EMI immunity improved by a metal shield (RR18-XXX-S) <b>I-ETS 300-220 Compliance</b>	3V 70uA	-96 dBm	315 418 433.92 MHz	+/- 300 KHz	< 150 msec	N (see note)	 Dimensions: 40.13 x 16.51 mm







## AM Super Regenerative Receivers - Small Dimensions

	<b>RR30-XXX</b> Laser Trimmed Inductor	Frequency tuning by laser trimmed coil 50% smaller than RR3 model	5V 2.5mA	-103 dBm	315 433.92 MHz	 +/- 2 MHz	< 1.2 sec	N (see note)	 Dimensions: 25.4 x 8.9 mm
	<b>RR80-XXX</b> 3V Supply Voltage	Frequency tuning by laser trimmed coil Very low current consumption 3V supply voltage 50% smaller than RR8 model	3V 0.5mA	-90 dBm	315 418 433.92 MHz	+/- 1.5 MHz	< 150 msec	N (see note)	 Dimensions: 27.94 x 8.9 mm


## ASK Superhet - Crystal Controlled Receivers

MODEL	DESCRIPTION	Vdc Is	Sensitivity	Frequency (XXX)	-3dB BW	Data Rate	Coating	
 <b>RRQ3-XXX</b> AM Superhet Receiver	- ASK Superhet data receiver with PLL - Squelch circuit integrated - Optional Metal Shield (RRQ3-XXX-S) - <b>XXX also 434.5, 868.30, 868.95 MHz</b> <b>I-ETS 300-220 Compliance</b>	5V 5mA	-107 -107 -103 dBm	315 433.92 ✓ 868.35 ✓ 915 MHz	+/- 150 KHz	4.8 Kbit/s	Y	 Dimensions: 38.1 x 14.5 mm
 <b>RRQ4-XXX-V</b> AM Superhet Receiver	- ASK Superhet data receiver with PLL - 50dB RF Image Rejection - 3.3V or 5V Supply Voltage <b>I-ETS 300-220 Compliance</b>	3.3 / 5V 6mA	-107 -107 dBm	315 433.92 ✓ MHz	+/- 150 KHz	4.8 Kbit/s	Y	 Dimensions: 35.56 x 14.5 mm
 <b>RRQ5-XXX</b> AM Superhet Receiver	- ASK Superhet data receiver with PLL - Front End SAW Filter. - High Sensitivity - Optional Metal Shield (RRQ5-XXX-S)	5V 6mA	-110 dBm	433.92 ✓ 868.35 MHz	+/- 150 KHz	4.8 Kbit/s	N (see note)	 Dimensions: 40.64 x 18.29 mm
<b>RRQ6-XXX</b> AM Superhet Receiver	- ASK Superhet data receiver with PLL - Output monostable circuit to restore impulses integrity.	5V 5mA	-107 -107 -103 dBm	315 433.92 868.35 MHz	+/- 150 KHz	2.4 Kbit/s	Y	 Dimensions: 38.1 x 14.5 mm
<b>RRQ7-XXX</b> AM Superhet Receiver	- ASK Superhet data receiver with PLL - Squelch circuit integrated - <b>XXX also 868.95 MHz</b> - <b>DIL Package</b>	5V 5mA	-107 -107 -103 dBm	315 433.92 868.35 MHz	+/- 150 KHz	4.8 Kbit/s	N (see note)	 Dimensions: 22.86 x 12.7 mm
<b>RRQ8-XXX</b> AM Superhet Receiver	- ASK Superhet data receiver with Front End SAW Filter and Output Noise Filter - Ideal for the application that needs high immunity to noise generated by electrical brushes motor.	5V 7.5mA	-113 dBm	433.92 MHz	+/- 150 KHz	4.8 Kbit/s	N	 Dimensions: 36.5 x 14.5 mm

## FSK Superhet - Crystal Controlled Receivers






MODEL	DESCRIPTION	Vdc Is	Sensitivity	Frequency (XXX)	-3dB BW	Data Rate	Coating	
 <b>RRFQ1-XXX</b> FSK Superhet Receiver	FSK Superhet data receiver with PLL - XXX also 434.42, 920 MHz <b>I-ETS 300-220 Compliance</b>	5V 5.7mA	-102 dBm	315 433.92 868.35 ✓ 915 MHz	+/- 150 KHz	4.8 Kbit/s	Y	 Dimensions: 38.1 x 18.3 mm
 <b>RRFQ2-XXX</b> FSK Superhet Receiver	FSK Superhet data receiver with PLL and crystal oscillator Alternative Pinout	5V 5.7mA	-102 dBm	315 433.92 ✓ 868.35 ✓ MHz	+/- 150 KHz	4.8 Kbit/s	N (see note)	 Dimensions: 45.72 x 16.5 mm
<b>RRFQ3-XXX</b> ASK / FSK Superhet Receiver	Dual Mode ASK / FSK Superhet data receiver with PLL	5V 5.7mA	-102 dBm	315 433.92 868.35 MHz	+/- 150 KHz	10 Kbit/s	N (see note)	 Dimensions: 38.1 x 18.3 mm
<b>RRFQ5-XXX</b> FSK Superhet Receiver	FSK Superhet data receiver with Front End SAW Filter. Optional Metal Shield (RRFQ5-XXX-S)	5V 5.7mA	-105 dBm	433.92 868.35 MHz	+/- 150 KHz	4.8 Kbit/s	N (see note)	 Dimensions: 40.64 x 18.29 mm



## ASK Radio Transmitters - SAW Resonator

MODEL	DESCRIPTION	Vdc	Is	Frequency (XXX)	Po	Data Rate	Coating	
 <b>RT4-XXX</b> <b>RT5-XXX</b> ASK Transmitter	Very small thick film ASK Radio transmitter modules XXX also 434.42 Mhz Rt4- available also SMT version <b>I-ETS 300-220 Compliance</b>	2 - 14 V	4 mA	315 418 433.92 MHz	+7 dBm	9.6 Kbit/s	N (see note)	 RT4 17.8 x 10.2 mm    RT5 17.8 x 11.4 mm
 <b>RT6-XXX</b> ASK Transmitter	Thick film SIL ASK Radio transmitter module	3 - 14 V	7 mA	315 418 433.92 MHz	+7 dBm	9.6 Kbit/s	Y	 Dimensions: 38.1 x 12.2 mm
<b>RT8-868</b> <b>RT13-868</b> ASK Transmitter	Thick film SIL ASK Radio transmitter modules RT13: pinout compatible with Rt11 module	3 - 14 V	12 mA	868.35 MHz	+7 dBm	9.6 Kbit/s	N (see note)	 Dimensions: 35.6 x 11.4 mm
 <b>RT11-XXX</b> ✓ <b>RT14-XXX</b> ASK Transmitter	Two-stages ASK radio transmitter module (SAW oscillator + power amplifier). RT14: pinout compatible with Rt4 Rt14- available also SMT version <b>I-ETS 300-220 Compliance</b>	2 - 9 V	8 mA	315 433.92 MHz	+12 dBm	9.6 Kbit/s	Y	 RT11 25.4 x 11.4 mm    RT14 17.8 x 10.2 mm
<b>RT15-868</b> ASK Transmitter	ASK Radio Transmitter at 868.35 TWO-stages (SAW oscillator + power amplifier) .Power Output +5 dBm @ 3V and +10 dBm @ 6V . RT15: pinout compatible with RT4	2 - 6 V	9 mA	868.35 MHz	+5 dBm	9.6 Kbit/s	N (see note)	 Dimensions: 17.78 x 11 +/-0.2 mm
<b>RT40-XXX</b> ASK Transmitter	Very small thic film ASK Radio transmitter module pinout compatible with RT4/RT14 Smaller than Rt4 <b>I-ETS 300-220 Compliance</b>	2 - 14 V	4 mA	433.92 MHz	+7 dBm	9.6 Kbit/s	N	 Dimensions: 17.78 x 7.62 mm








## ASK Radio Transmitters - Crystal Control



MODEL	DESCRIPTION	Vdc	Is	Frequency (XXX)	Po	Data Rate	Coating	
<b>RTQ1-XXX</b> ASK Transmitter	Very small thick film DIL ASK Radio transmitter module  <b>I-ETS 300-220 Compliance</b>	2.4 - 4 V	7 mA	315 433.92 ✓ 868.35 ✓ MHz	+5 +5 +1 dBm	9.6 Kbit/s	Y	 Dimensions: 20.32 x 11.43 mm
<b>RTQ4-XXX</b> ASK Transmitter	Very small thick film DIL ASK Radio Transmitter Module. <b>XXX also 920 MHz</b> Pin-out compatible with RT4 Module.	1.9 - 5.5 V	9 mA	433.92 868.35 MHz	+7 dBm	9.6 Kbit/s	N (see note)	 Dimensions: 17.78 x 10.16 mm
<b>RTQ6-XXX</b> ASK Transmitter	Very small thick film DIL ASK Radio Transmitter Module. <b>XXX also 868.525 MHz</b> Pin-out compatible with RTQ1 Module.	1.9 - 5.5 V	9 mA	433.92 868.35 MHz	+7 dBm	9.6 Kbit/s	Y	 Dimensions: 20.32 x 10.16 mm
<b>RTQ8-868</b> ASK Transmitter	ASK Radio Transmitter - Crystal controlled .Power Output +7 dBm @ 5V <b>XXX also 868.95 MHz</b> Pinout compatible with RT11 .	1.9 - 5.5 V	9 mA	868.35 MHz	+7 dBm	9.6 Kbit/s	N (see note)	 Dimensions: 25.4 x 10.16 mm
<b>RTQ10-XXX</b> ASK Transmitter	10mW ASK Radio Transmitter Module with Crystal Oscillator and External Antenna. RTQ10 : pinout compatible with RTQ1	2.4- 4.0 V	14.5 mA	433.92 868.35 MHz	+10 dBm	40 Kbit/s	N (see note)	 Dimensions: 20.32 x 10.16 mm








ASK Radio Transmitters BOOST								
MODEL	DESCRIPTION	Vdc	Is	Frequency (XXX)	Po	Data Rate	Coating	
<b>RT4-433-BOOST</b> <b>RT5-433-BOOST</b> ASK Transmitter	Very small thick film ASK Radio transmitter modules	2 - 14 V	7 mA	433.92 MHz	RT4 : 13 RT5 : 20 mW	9.6 Kbit/s	N (see note)	 RT4                      RT5 17.8 x 10.2 mm      17.8 x 11.4 mm
<b>TX-433</b> <b>SAWBOOST</b> ASK Transmitter	Transmitter module 433.92 Mhz 400/800 mWatt output	12 / 18 V	80 mA	433.92 MHz	400/800 mW	8 Kbit/s	N (see note)	 Dimensions: 20.32 x 10.16 mm

## FSK Radio Transmitters - Crystal Control

MODEL	DESCRIPTION	Vdc	Is	Frequency (XXX)	Po	Data Rate	Coating	
 <b>RTFQ1-XXX</b> FSK Transmitter	Small thick film DIL FSK Radio transmitter module Available also SMT version XXX also 868.30, 916, 920 MHz <b>I-ETS 300-220 Compliance</b>	2.4 - 4 V	7 mA	315 433.92 ✓ 868.35 ✓ MHz	+5 +5 +1 dBm	9.6 Kbit/s	Y	 Dimensions: 20.32 x 11.43 mm
 <b>RTFQ2-XXX</b> FSK Transmitter	Very small thick film SIL FSK Radio transmitter module. Extended supply voltage (RTFQ2-XXX-R) XXX also 868.30, 916 MHz <b>I-ETS 300-220 Compliance</b>	2.5 - 12 V	7 mA	315 433.92 ✓ 868.35 ✓ 915 ✓ MHz	+5 +5 +1 dBm	9.6 Kbit/s	N (see note)	 Dimensions: 30.48 x 10.67 mm
<b>RTFQ4-XXX</b> FSK Transmitter	Very small thick film DIL FSK Radio Transmitter Module.  Pin-out compatible with RT4 Module.	1.9 - 5.5 V	9 mA	315 433.92 868.35 MHz	+7 dBm	9.6 Kbit/s	N (see note)	 Dimensions: 17.78 x 10.16 mm
<b>RTFQ6-XXX</b> FSK Transmitter	Very small thick film DIL FSK Radio Transmitter Module. XXX also 868.525 MHz Pin-out compatible with RTFQ1 Module.	1.9 - 5.5 V	9 mA	433.92 868.35 MHz	+7 dBm	9.6 Kbit/s	N (see note)	 Dimensions: 20.32 x 10.16 mm
<b>RTFQ10-XXX</b> FSK Transmitter	10mW FSK Radio Transmitter Module with Crystal Oscillator and External Antenna. RTFQ10 : pinout compatible with RTFQ1	2.4 - 4.0 V	14.5 mA	433.92 868.35 MHz	+10 dBm	40 Kbit/s	N (see note)	 Dimensions: 20.32 x 11.43 mm
<b>RTFQ11-868</b> FSK Transmitter	15mW FSK Radio Transmitter Module with Crystal Oscillator and External Antenna	2.2 - 5.5 V	26 mA	868.30 MHz	+14 dBm	40 Kbit/s	N (see note)	 Dimensions: 35.56 x 10.16 mm












## Keeloq Encoder & Decoder



MODEL	DESCRIPTION	Vdc	Is	Frequency (XXX)	Po	Data Rate	Coating	
 <b>RT14-HCS</b> HCS Transmitter Module	Radio Transmitter Module with SAW Resonator and HCS Keeloq Encoder	3.5 - 12 V	10 mA	433.92 MHz	 +7 dBm	9.6 Kbit/s	N (see note)	 Dimensions: 17.78 x 10.16 mm
 <b>DC-4CH</b> Keeloq Decoder	The DC-4CH hybrid module is a 4 channels Keeloq decoder unit which match with HCS Keeloq encoder (programmed with TC manufacturer code).	3 - 5.5 V	1.2 mA				N (see note)	 Dimensions: 31.3 x 12.7 mm
<b>RX4CH</b> 4 Channels Radio Receive Keeloq	4 Channels Radio Receivers Decoder Board with Keeloq Coding	10 - 14 V	50 mA	315 433.92 868.35 915 MHz			NA	 Dimensions: 90 x 54 mm

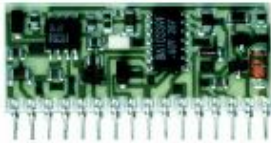


## Radio Transceivers - Crystal Control



MODEL	DESCRIPTION	Vdc	Is	Frequency (XXX)	Sens / Po	Data Rate	Coating	
<b>RXQ2-XXX</b> Multichannel RF Transceiver	Multichannel radio transceiver module with embedded microcontroller.	1.9 - 3.6 V	12 (RX) 30 (TX) mA	433.92 868.35 915 MHz	-100 / +10 dBm	up to 38.4 Kbit/s	Y	 Dimensions: 20.32 x 22.86 mm
<b>RXQ3-XXX</b> Multichannel RF Transceiver	Multichannel radio transceiver module with embedded microcontroller. Available with dedicated firmware for transmission serial data.	2.0 - 3.6 V	20 (RX) 33 (TX) mA	433.92 868.35 915 MHz	-110 / +10 dBm	up to 500 Kbit/s	Y	 Dimensions: 22.86 x 15.24 mm
<b>RXQ4-XXX</b> Sub 1GHz Multichannel Radio Transceiver without microcontroller	Low-cost sub 1GHz radio transceiver designed for very low-power wireless applications, based on the CC1101(Texas Instruments)	1.8 - 3.6 V	15 (RX) 29 (TX) mA	433.92 868.35 915 MHz	-110 / +10 dBm	up to 500 Kbit/s	Y	 Dimensions: 20.32 x 15.24 mm
<b>RXQ5-XXX</b> Sub 1GHz Multichannel Radio Transceiver without microcontroller	TheRXQ5-XXXis a low-cost sub 1GHz radio transceiverFSKdesigned for very low-power wireless applications, based on the MRF49XA	2.2 - 3.8 V	11 (RX) 15 (TX) mA	433.92 868.35 915 MHz	-112 / +10 dBm	up to 256 Kbit/s	N (see note)	 Dimensions: 21.59 x 10.16 mm
<b>RXQ6-XXX</b> Radio Transceiver Module Multichannel with low cost microcontroller on board	The RXQ6-XXX is a low-cost sub 1GHz radio transceiver designed for very low-power wireless applications, based on the CC1101 device and the microcontroller PIC18F26J11(Microchip).	2.2 - 3.6 V	20 (RX) 34 (TX) mA	433.92 868.35 915 MHz	-110 / +10 dBm	up to 500 Kbit/s	N (see note)	 Dimensions: 25.4 x 17.78 mm

Evaluation Board								
MODEL	DESCRIPTION	Vdc	Is	Frequency (XXX)	Sens / Po	Data Rate	Coating	
<b>RXDL1</b> RS232 Radio Data Link	Evaluation Board for RXQ2-XXX Transceiver. RS232 Interface Embedded	5 - 12 V	23 (RX) 31 (TX) mA	433.92 868.35 915 MHz	-100 / +10 dBm	up to 38.4 Kbit/s	N/A	 Dimensions: 79.38 x 36.83 mm
 <b>RXDL2</b> USB Radio Data Link	Evaluation Board for RXQ2-XXX Transceiver. USB Interface Embedded		23 (RX) 31 (TX) mA	433.92 868.35 915 MHz	100 / +10 dBm	up to 38.4 Kbit/s	N/A	 Dimensions: 78 x 30 mm
<b>RXDL3</b> USB Radio Data Link	Evaluation Board for RXQ3-XXX Transceiver. USB Interface Embedded		23 (RX) 31 (TX) mA	433.92 868.35 915 MHz	-100 / +10 dBm	up to 38.4 Kbit/s	N/A	 Dimensions: 61.5 x 18.5 mm

Ultrasonic Transmitter / Receivers								
MODEL	DESCRIPTION	Vdc	Is	Frequency	Gain	Out sink current	Coating	
<b>UTR2</b> 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	N (see note)	 Dimensions: 38.8 x 17.0 mm
<b>UTR3</b> 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	N (see note)	 Dimensions: 38.8 x 17.0 mm

Infrared Devices								
MODEL	DESCRIPTION	Vdc	Is	Amplifier bandwidth	Gain	Out sink Current	Coating	
<b>PID1</b> 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	N (see note)	 <p>Dimensions: 40.6 x 15.2 mm</p>
<b>IRT1</b> 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		N (see note)	 <p>Dimensions: 12.7 x 16.9 mm</p>
<b>IRD1</b> 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	N (see note)	 <p>Dimensions: 38.1 x 10.9 mm</p>



Skladem jsou také produkty RR16-433, RXQ1-433



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