

TYPE OF EXHIBIT: SEMICONDUCTOR FUNCTION

FCC PART: 2.1033 (c) (10)

MANUFACTURER: RITRON, INC.
505 West Carmel Drive
Carmel, IN 46032

MODELS: RQX-156, RQX-156-XT

FCC ID: AIERIT18-156

DATE: November 6, 2003

DESCRIPTION:

The following list specifies the manufacturer, identification and function of each semiconductor device used in the RQX-156 Callbox Transceiver.

<u>REF</u>	<u>PN#</u>	<u>Manufacturer</u>	<u>Manufacturer ID</u>	<u>Function</u>
CR101	48D100A2	M/A Com, Inc.	MA4CP101A	TX/RX switching
CR102	48E1005G	ON Semiconductors	MMBD-352LT1	Voltage clamp
CR103	48A1005C	ON Semiconductors	MMBD7000LT1	Biased noise detector
CR201	48D100A2	M/A Com, Inc.	MA4CP101A	TX/RX switching
CR301	48A1005C	ON Semiconductors	MMBD7000LT1	Voltage clamp
CR401	48C1004G	ON Semiconductors	MMBV-2101L	VCO modulation
CR402	48CB0002	Philips Semiconductors	BB149A	VCO tuning
CR403	48A1005C	ON Semiconductors	MMBD7000LT1	Biasing
CR404	48A1004D	ON Semiconductors	MMBV3401TI	TX/RX VCO switching
CR501	48AA01SA	Vishay	S1B-13	Battery charging
CR502	48B61012	Philips Semiconductors	BZD27-C12	Voltage regulation
CR503	48A1005B	ON Semiconductors	MMBD6100LT1	Turn-on detection
CR504	48A1005C	ON Semiconductors	MMBD7000LT1	Voltage clamp
CR505	48A1005C	ON Semiconductors	MMBD7000LT1	Voltage clamp
CR506	02450101	Panasonic	LN514GK-GREEN	7-segment LED display
CR507	48AA01SA	Vishay	S1B-13	Reverse voltage protection
Q 101	4801002A	Philips Semiconductors	PMBT3906	RX +V switching
Q 102	482100V0	Philips Semiconductors	PBR951	RX RF amplifier
Q 104	4821003B	Motorola Semiconductors	MMBT918LT1	RX IF amplifier
Q 105	4821003B	Motorola Semiconductors	MMBT918LT1	RX 2nd LO multiplier/amp
Q 107	4841006B	ON Semiconductors	MMBF5484LT1	Analog switch
Q 201	48180001	ON Semiconductors	BCP69T1	TX +V switching
Q 202	4801001Q	ON Semiconductors	MMBT-5088LT1	TX +V switching
Q 203	482100P2	Philips Semiconductors	BFR92A	TX RF amplifier
Q 204	482800P2	Philips Semiconductors	BFR92A	TX RF amplifier
Q 205	482300FF	Philips Semiconductors	BFQ18A	TX RF driver amplifier
Q 206	04801032	Motorola Semiconductors	MRF-553	TX Final amplifier
Q 207	4801001Q	ON Semiconductors	MMBT-5088LT1	TX +V switching
Q 301	4841006B	ON Semiconductors	MMBF5484LT1	AGC switch
Q 302	4801001Q	ON Semiconductors	MMBT-5088LT1	AGC audio detection
Q 303	48010A8A	ON Semiconductors	MMUN2211T1	Audio amplifier enable
Q 304	480100DH	ON Semiconductors	BCW68GLT1	Audio amplifier +V switching
Q 401	482100P2	Philips Semiconductors	BFR92A	VCO buffer amplifier
Q 402	482100P2	Philips Semiconductors	BFR92A	VCO buffer amplifier
Q 403	482100P2	Philips Semiconductors	BFR92A	VCO oscillator
Q 404	4801001Q	ON Semiconductors	MMBT-5088LT1	VCO voltage de-coupling
Q 405	48010A6A	ON Semiconductors	MMUN2111LT1	TX/RX VCO switching
<u>REF</u>	<u>PN#</u>	<u>Manufacturer</u>	<u>Manufacturer ID</u>	<u>Function</u>

Q 406	48010002	ROHM	UMG9N	TX/RX VCO switching
Q 501	4801001Q	ON Semiconductors	MMBT-5088LT1	External voltage detect
Q 502	48010A8A	ON Semiconductors	MMUN2211T1	External +V switching
Q 503	4801002A	Philips Semiconductors	PMBT3906	External +V switching
Q 504	48180006	Central Semiconductor	CZT122	External +V switching
Q 505	48130001	Central Semiconductor	CBCX69	Battery +V switching
Q 506	4801001Q	ON Semiconductors	MMBT-5088LT1	Battery +V switching
Q 507	480100DH	ON Semiconductors	BCW68GLT1	+5V switching
Q 508	48010A8A	ON Semiconductors	MMUN2211T1	Relay activation
Q 509	4821003B	Motorola Semiconductors	MMBT918LT1	Micro clock amplifier
Q 510	48010A6A	ON Semiconductors	MMUN2111LT1	+5V regulator turn-off
Q 511	48010A8A	ON Semiconductors	MMUN2211T1	+5V regulator turn-off
U 101	31030006	Toshiba	TA31136FN	RX FM-IF subsystem
U 102	3151AAAS	Maxim Integrated Products	MAX2681EUT-T	RX 1 st mixer
U 301	311K0001	Philips Components	74LV4066PW	Audio signal switching
U 302	310K0004	National Semiconductors	LMV324MT	Audio processing
U 303	310K0004	National Semiconductors	LMV324MT	Audio processing
U 304	310K0002	Maxim Integrated Products	MAX7410CUA	Tone low pass filter
U 305	310K0001	Dallas Semiconductor	DS1806E	Audio signal level control
U 306	03131009	National Semiconductors	LM-386N-3	Audio amplifier
U 307	31134053	Philips Components	74HC4053D	Audio signal switching
U 308	31030007	Philips Components	SA575D	Audio processing
U 401	313K0006	National Semiconductors	LMX2306TM	Frequency synthesizer
U 501	314L0003	Motorola Semiconductors	MC68HC908GR8FA	Microcontroller
U 502	31010001	National Semiconductors	LP2951ACM	+5V regulator
U 503	31210006	Atmel Corporation	AT24C08AN-10SC	EEPROM
U 504	311K0004	Philips Components	74HC595PW	Multiplexer
U 505	311K0004	Philips Components	74HC595PW	Multiplexer