

TYPE OF EXHIBIT: SEMICONDUCTOR PARTS LIST

FCC PART:

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

MODEL: RLR-460

TYPE OF UNIT: UHF FM Repeater

FCC ID: AIERIT15-460

DATE: December 19, 2002

Reference Designator	Part Number	Description
CR100	SMV1236-001	Receive VCO Tuning Diode
CR101	MMBD7000	Transmit VCO Speed-Up Diode
CR102	SMV1236-001	Transmit VCO Tuning Diode
CR103	MMBV2101L	Transmit VCO Modulation Diode
CR104	MMBZ5230B	Q108 Bias Zener Diode
CR300	MMBD7000	I/O Protection Diode
CR301	Red LED	Transmit Indicator
CR302	Green LED	Power Indicator
CR303	Not Used	
CR304	1N4001	Power Reverse Protection Diode
CR305	MMBD7000	I/O Protection Diode
CR306	MMBZ5241B	Voltage Regulator Zener Reference
Q101	PBR951	Receiver RF Low Noise Amplifier
Q102	MMBTH10	Receiver 1 st IF Amplifier
Q103	MMBT5088	Receiver Power Supply Noise Filter
Q104	PBR941	Receiver VCO Transistor
Q105	PBR941	Receiver VCO 1 st Buffer Amplifier
Q106	PBR941	Receiver VCO Final Buffer Amplifier
Q107	MMBTH10	Receiver VCTCXO Frequency Tripler
Q108	ST54003	Transmitter Final RF Power Amplifier
Q109	BFG35	Transmitter RF Power Amplifier Driver
Q110	PBR951	Transmitter PF Power Pre-driver
Q111	PBR951	Transmitter RF Amplifier
Q112	BCP69	Transmitter Chain Power Switch
Q113	MMBT5088	Transmitter Chain Power Switch
Q114	PBR941	Transmitter VCO Final Buffer Amplifier
Q115	PBR941	Transmitter VCO 1 st Buffer Amplifier
Q116	MMBT5088	Transmitter Power Supply Noise Filter
Q117	PBR941	Transmitter VCO Transistor
Q118	Not Used	
Q119	MMUN2211T1	Transmit VCO Electronic Switch
Q120	UMZ1NTR	Squelch Temperature Compensation
Q300	TIP120	Power Supply Pass Transistor
Q301	MMBT3906	I/O Level Switching
Q302	MMUN2211	PTT Enable Switching Transistor
U100	MAX2682	1 st Mixer IC
U101	TA31136FN	2 nd IF Mixer, Amplifier, Detector

U102	LMX2306TM	Receiver Synthesizer IC
U103	LMX2306TM	Transmit Synthesizer IC
U300	LMV393	Squelch and CTCSS Comparator
U301	MC33204	Receive Audio Buffer
U302	MAX7410	Receive CTCSS Filter
U303	74HC4053	Audio Gating Switches
U304	LM386	Audio Power Amplifier
U305	MC33204	Transmit Audio Limiter/Amplifier
U306	MAX7410	Transmit CTCSS Filter
U307	MCP120-475	Microprocessor Reset IC
U308	MC68HC705C8	Microprocessor
U309	X24C01	EEPROM Memory
U310	MC78LC50	5-volt Regulator
U311	LP2951	5-volt Regulator
Y100	23050003	Receive 14.4 MHz Reference Oscillator
Y101	23050003	Transmit 14.4 MHz Reference Oscillator