

TYPE OF TEST: ACTIVE COMPONENT LIST

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

MODEL: DTX-442

TYPE OF UNIT: UHF-FM Two Way Radio Transceiver Module

FCC ID: AIERIT17-442

DATE: Dec 12, 2003

SEMICONDUCTORS:

The following pages contain a list of the semiconductors used in the DTX-442.

<u>Ref Des</u>	<u>Ritron#</u>	<u>Device #</u>	<u>Description</u>
CR101	48DB0003	BA782S	DIODE
CR201	48DB0003	BA782S	DIODE
CR401	48CB0001	BB149	DIODE
CR402	48CB0001	BB149	DIODE
CR405	48CB0001	BB149	DIODE
D301	48A1005C	MMBD7000	TRANSISTOR, DUAL DIODE CATH/ANODE
D302	48A1005C	MMBD7000	TRANSISTOR, DUAL DIODE CATH/ANODE
D303	48A1005C	MMBD7000	TRANSISTOR, DUAL DIODE CATH/ANODE
D304	48A1005C	MMBD7000	TRANSISTOR, DUAL DIODE CATH/ANODE
D601	48BA0831	1SMA5913	DIODE
D602	48E00B14	MBRS140T3	SCHOTTKY POWER RECTIFIER
Q101	482100W2	PBR-951	TRANSISTOR, LOW PWR RF, UHF WIDEBAND
Q102	482100V0	PBR-941	TRANSISTOR, LOW PWR RF, UHF WIDEBAND
Q103	48210E2P	BFS17A	TRANSISTOR
Q104	4821003B	MMBT918LT1	TRANSISTOR,VHF NPN
Q106	4841006U	MMBFJ309L	TRANSISTOR, RF NFET
Q107	4801002A	MMBT3906L	TRANSISTOR, PNP SMD
Q108	48010A8A	MMUN2211T1	TRANSISTOR, NPN SMD
Q110	48010A8A	MMUN2211T1	TRANSISTOR, NPN SMD
Q201	480100DH	BCW68GLT1	TRANSISTOR, PNP GENERAL PURPOSE
Q202	4801001Q	MMBT5088	TRANSISTOR, NPN SMD
Q203	4801001Q	MMBT5088	TRANSISTOR, NPN SMD
Q204	48010A8A	MMUN2211T1	TRANSISTOR, NPN SMD
Q205	480100DH	BCW68GLT1	TRANSISTOR, PNP GENERAL PURPOSE
Q206	4801001Q	MMBT5088	TRANSISTOR, NPN SMD
Q208	487A0002	PD54003	FET, RF PWR
Q209	48280002	BFG35	TRANSISTOR, WIDE BAND
Q210	482100W2	PBR-951	TRANSISTOR, LOW PWR RF, UHF WIDEBAND
Q211	48010A8A	MMUN2211T1	TRANSISTOR, NPN SMD
Q302	48010A8A	MMUN2211T1	TRANSISTOR, NPN SMD
Q303	48010A6A	MMUN21111	TRANSISTOR, DIGITAL PNP SMD
Q305	48010A6A	MMUN21111	TRANSISTOR, DIGITAL PNP SMD
Q306	48010A8A	MMUN2211T1	TRANSISTOR, NPN SMD
Q307	48010A6A	MMUN21111	TRANSISTOR, DIGITAL PNP SMD
Q309	48010A8A	MMUN2211T1	TRANSISTOR, NPN SMD
Q310	4801001Q	MMBT5088	TRANSISTOR, NPN SMD
Q311	48010A8A	MMUN2211T1	TRANSISTOR, NPN SMD
Q312	480100DH	BCW68GLT1	TRANSISTOR, PNP GENERAL PURPOSE
Q315	48010A8A	MMUN2211T1	TRANSISTOR, NPN SMD
Q316	48010A6A	MMUN21111	TRANSISTOR, DIGITAL PNP SMD
Q401	4841006T	MMBF-J310TI	TRANSISTOR, GP NFET
Q402	482100V0	PBR-941	TRANSISTOR, LOW PWR RF, UHF WIDEBAND
Q405	4801001Q	MMBT5088	TRANSISTOR, NPN SMD
Q407	482100V0	PBR-941	TRANSISTOR, LOW PWR RF, UHF WIDEBAND
Q408	4801001Q	MMBT5088	TRANSISTOR, NPN SMD
Q409	4801001Q	MMBT5088	TRANSISTOR, NPN SMD
Q410	48010A8A	MMUN2211T1	TRANSISTOR, NPN SMD

Q411	48010A6A	MMUN21111	TRANSISTOR, DIGITAL PNP SMD
Q601	48180007	MJD210	TRANSISTOR
Q602	4801001Q	MMBT5088	TRANSISTOR, NPN SMD
Q603	4801001Q	MMBT5088	TRANSISTOR, NPN SMD
Q604	4801001Q	MMBT5088	TRANSISTOR, NPN SMD
Q605	484100P3	MMBF0202PLT1	POWER MOSFET 300 mAMPS, 20 VOLTS P-CHANNEL
Q606	48010A6D	MMUN2114	TRANSISTOR, DIGITAL PNP SMD
U101	31030006	TA31136FN	FM IF DETECTOR
U104	31010018	LMV393	INTEGRATED CIRCUIT
U201	31010008	LMT2904D	I.C. DUAL OP AMP
U301	314L0002	ATmega8	I.C. MICROCONTROLLER
U303	31140002	74V1G14	SINGLE SCHMITT INVERTER
U304	310K0004	LMV324MT	I.C. QUAD OP AMP
U305	310K0004	LMV324MT	I.C. QUAD OP AMP
U306	3131009	LM386N-3	IC, AUDIO PWR AMP
U307	31010008	LMT2904D	I.C. DUAL OP AMP
U308	310K0004	LMV324MT	I.C. QUAD OP AMP
U309	31010020	LM321	LOW POWER SINGLE OP AMP
U310	3.11E+03	MAX4544	I.C. ANALOG SWITCH SPDT
U401	313K0006	LMX2306TM	INTEGRATED CIRCUIT
U402	31040004	TPS76301DBVR	I.C. VOLTAGE REGULATOR
U601	310M0001	LM3485	HYSTERETIC PFET BUCK CONTROLLER
U602	31040003	TPS76050DBVR	I.C. VOLTAGE REGULATOR