

1200XT FUNCTION REPORT

DC Voltages and Current into Final Amplifier

FINAL AMPLIFIER ONLY Q206 F=649.875MHz

3 V BATTERY

V_{ce}= 3.5V

I_{ce}= 13mA

Function of each electron semiconductor

device or other circuit device MAIN BOARD

<u>DESIGNATION</u>	<u>TYPE NO</u>	<u>IC·DIODE</u>	<u>FUNCTION</u>
IC1	NJM2100M	IC(OP.AMP)	MIC AF AMP
	NJM2100M(2/2)	IC(OP.AMP)	PRE EMPHASIS
IC101	THAT4320	IC	COMPRESSOR
IC201	MB15E03LPFV	IC	PLL FREQUENCY SYNTHESIZER LSI
IC301	XC6371B501PR	IC	DC-DC CONVERTERS IC
IC202	NJU7202U30	IC	VOLTAGE REGULATOR
IC100	NJM2100M	IC	AF LEVEL DRIVE
IC203	SV328	IC	VCO
IC5	TC7SU04FU	IC	TONE OSC
IC4	TC7S66FU	IC	ANALOG SW
Q101	2SC4116BL	TRANSISTOR	LOW PASS FILTER
Q2	DTA143ZUA	TRANSISTOR	AF MUTE
Q1	DTC114TUA	TRANSISTOR	AF MUTE
Q201	DTC124EUA	TRANSISTOR	PLL LD
Q203	DTA143ZUA	TRANSISTOR	RF CONTROL
Q202	DTA143ZUA	TRANSISTOR	VCO CONTROL
Q204	2SC4227	TRANSISTOR	R.F. AMP
Q205	2SC4227	TRANSISTOR	R.F. AMP

Q206	2SC4227	TRANSISTOR	R.F.POWER AMP
Q301	2SB956S	TRANSISTOR	POWER SWITCH
Q302	2SD1819R	TRANSISTOR	POWER SWITCH
Q303	2SD1280S	TRANSISTOR	DC/DC CONVERTERS DRIVE
D101	MAZ8056	DIODE	LIMITTER
D102	MAZ8056	DIODE	LIMITTER
D1	DA204U	DIODE	AF SIGNAL DETECTION
D2	RB715F	DIODE	REVERSE BLOCK
D4	MA111	DIODE	REVERSE BLOCK
D9	DA204U	DIODE	LIMITTER
D10	DA204U	DIODE	LIMITTER
D301	MA111	DIODE	REVERSE BLOCK
D302	MA22D40	S B DIODE	Rectification
D303	MA22D40	S B DIODE	Rectification
D201	MA111	DIODE	REVERSE BLOCK
D202	DA204U	DIODE	REVERSE BLOCK
D203	MA111	DIODE	REVERSE BLOCK
D204	MA2Z077	SW DIODE	REVERSE BLOCK
IC2	PST597D	IC	RESET
IC4	M93C46	IC	MEMORY
IC5	UPD78F9418A	IC	CPU
IC302	LTC3872	IC	DC-DC CONVERTERS IC
Q302	RHP020N06	FET	GATE CONTROL