

15XT FUNCTION REPORT

DC Voltage and Current into Final Amplifier

FINAL AMPLIFIER ONLY Q206 F=578.250MHz

V_{ce}= 3.9 V

I_{ce}= 11.0 mA

Function of each electron semiconductors

device or other circuit device MAIN BOARD

MAIN BOARD

REFERENCE NO.	PARTS NO.	TYPE	FUNCTION
IC100	NJM2100M	IC(OP.AMP)	MIC AF AMP
	NJM2100M(2/2)	IC(OP.AMP)	PRE EMPHASIS
IC101	TK10690M	IC	COMPRESSOR
IC201	MB15E03LPFV	IC	PLL FREQUENCY SYNTHESIZER LSI
IC202	NJU7202U30	IC	VOLTAGE REGULATOR
IC301	XC6371B501PR	IC	DC-DC CONVERTER IC
IC203	SV290	IC	VCO
IC5	TC7SU04FU	IC	TONE OSC
IC4	TC7S66FU	IC	TONE BUFFER
IC6	XC61CN2102PR	IC	VOLTAGE DETECTOR
IC2	PST597K	IC	RESET
IC1	UPD78F9076MC	IC	CPU
IC3	NJM2903M	IC	VOLTAGE COMPARATOR
Q101	2SC4116BL	TRANSISTOR	LOW PASS FILTER
Q1	DTC114TUA	TRANSISTOR	AF MUTE
Q2	DTC114TUA	TRANSISTOR	AF MUTE
Q5	DTC114TUA	TRANSISTOR	AF MUTE
Q3	DTA143ZUA	TRANSISTOR	LED DRIVE
Q4	DTA143ZUA	TRANSISTOR	LED DRIVE
Q203	DTA143ZUA	TRANSISTOR	TX CONTROL
Q202	DTA143ZUA	TRANSISTOR	VCO CONTROL
Q204	2SC4227	TRANSISTOR	R.F.POWER AMP
Q205	2SC4227	TRANSISTOR	R.F.POWER 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
D9	DA204U	DIODE	LIMITTER
D10	DA204U	DIODE	LIMITTER
D102	DA204U	DIODE	LIMITTER
D103	DA204U	DIODE	LIMITTER
D202	DA204U	DIODE	LOW PASS FILTER
D100	MA111	DIODE	BACK CURRENT BLOCK
D101	MA111	DIODE	BACK CURRENT BLOCK
D203	MA111	DIODE	BACK CURRENT BLOCK
D301	MA111	DIODE	BACK CURRENT BLOCK
D204	MA2Z077	DIODE	BACK CURRENT BLOCK
D302	MA2D28	DIODE	RECTIFICATION
LED1	BRPG1204W	LED	POWER INDICATOR
LED2	SEC1101C	LED	AF PEAK INDICATOR