

30BT FUNCTION REPORT

DC Voltages and Current into Final Amplifier

FINAL AMPLIFIER ONLY Q13 F=729MHz
 3 V BATTERY
 V_{ce}= 4.34V

I_{ce}= 7.0mA

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
IC2	TK10690M	IC	COMPRESSOR
IC6	MB15E03LPFV	IC	PLL FREQUENCY SYNTHESIZER LSI
IC7	XC6371B501PR	IC	DC-DC CONVERTERS IC
IC8	NJU7201U30	IC	VOLTAGE REGULATOR
IC10	NJM2100M	IC	AF LEVEL DRIVE
Q1	2SC4116BL	TRANSISTOR	LOW PASS FILTER
Q2	DTA143ZUA	TRANSISTOR	AF MUTE
Q3	DTC114TUA	TRANSISTOR	AF MUTE
Q7	DTC124EUA	TRANSISTOR	PLL LD
Q8	DTC114TUA	TRANSISTOR	LED INDICATOR
Q9	DTA143ZUA	TRANSISTOR	REVERSE BLOCK
Q10	DTC114TUA	TRANSISTOR	REVERSE BLOCK
Q11	2SA1588Y	TRANSISTOR	TX CONTROL
Q12	2SC4227	TRANSISTOR	MULTIPLIER
Q13	2SC4227	TRANSISTOR	R.F.POWER AMP
Q14	2SB956S	TRANSISTOR	POWER SWITCH
Q15	2SD1819R	TRANSISTOR	POWER SWITCH
Q16	2SD1328T	TRANSISTOR	DC/DC CONVERTERS DRIVE
D1	MA111	DIODE	LIMITTER
D2	MA111	DIODE	LIMITTER

D3	DA204U	DIODE	LIMITTER
D4	DA204U	DIODE	LIMITTER
D5	DA204U	DIODE	LIMITTER
D6	DA204U	DIODE	LIMITTER
D7	DA204U	DIODE	LOW PASS FILTER
D8	DA204U	DIODE	REVERSE BLOCK
D9	MA111	DIODE	REVERSE BLOCK
D10	MA111	DIODE	REVERSE BLOCK
D11	MA77	DIODE	RF SWITCH
D12	MA721	DIODE	Rectification
D13	MA111		REVERSE BLOCK
D16	MA111	DIODE	REVERSE BLOCK
D17	DA204U	DIODE	AF SIGNAL DETECTION

VCO

Q101	2SK508L	FET	OSC AND MODULATON
Q102	2SC4227	TRANSISTOR	BUFFER AMP
D101	1SV229	DIODE	MODULLATION
D102	1SV229	DIODE	MODULLATION

CONTROL(LCD)

IC2	PST597D	IC	RESET
IC4	M93C46	IC	MEMORY
IC5	UPD78F9418A	IC	CPU
D2	RB715F	DIODE	REVERSE BLOCK