

AX1 CIRCUIT FUNCTION

POWER SUPPLY UNIT

D3	1SS349	diode	DC-DC
U3	XC6371A300	IC(DC-DC)	DC-DC
U2	TK11227	IC (regulator)	power supply regulator(2.7V)
U5	XC61CN11	IC(detect)	LED driver
LED1	TLSU1008	LED	power supply indicator(LOW) & unavailable indicator

AUDIO UNIT

D2	1SS362	diode	modulation AF signal level limit
Q5	2SK879	transistor	AF mute
Q4	2SA1832	transistor	AF mute drive
U1	TK10690	IC(compander)	1/2 log compander
U4	TK17030	IC(opeamp)	pre-emphasis

RF UNIT

D1	KV1832E	diode	frequency adjustment & modulat
Q2	FH102	transistor	OSC & buffer
Q3	2SC5231	transistor	output power amplifier

VOLTAGE AND CURRENT OF FINAL STAGE

collector voltage $V_c=2.7V$
emitter voltage $V_e=0.38V$
current $I_c=3.8mA$