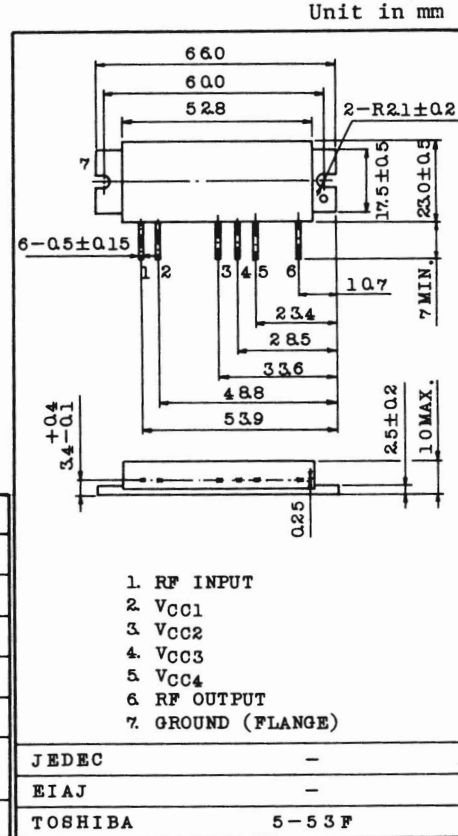


800MHz UHF POWER AMPLIFIER MODULE
(USA CELLULAR RADIO)
FEATURES:

- . Built-in Driver Stage
- . Output Power (6W) is Directly Gained by VCO(1mW).
- . Output Power : $P_o \geq 6W$
- . Minimum Gain : $G_p = 37.7dB$
- . Efficiency : $\eta_T \geq 35\%$
- . 50Ω Input/Output Impedance
- . Guaranteed Stability

MAXIMUM RATINGS (Tc=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
DC Supply Voltage	VCC1	11	V
DC Supply Voltage	VCC2	17	V
DC Supply Voltage	VCC3	17	V
DC Supply Voltage	VCC4	17	V
RF Input Power	Pi	3	mW
Operating Case Temperature Range	Tc(opr)	-30~100	°C
Storage Temperature Range	Tstg	-40~110	°C

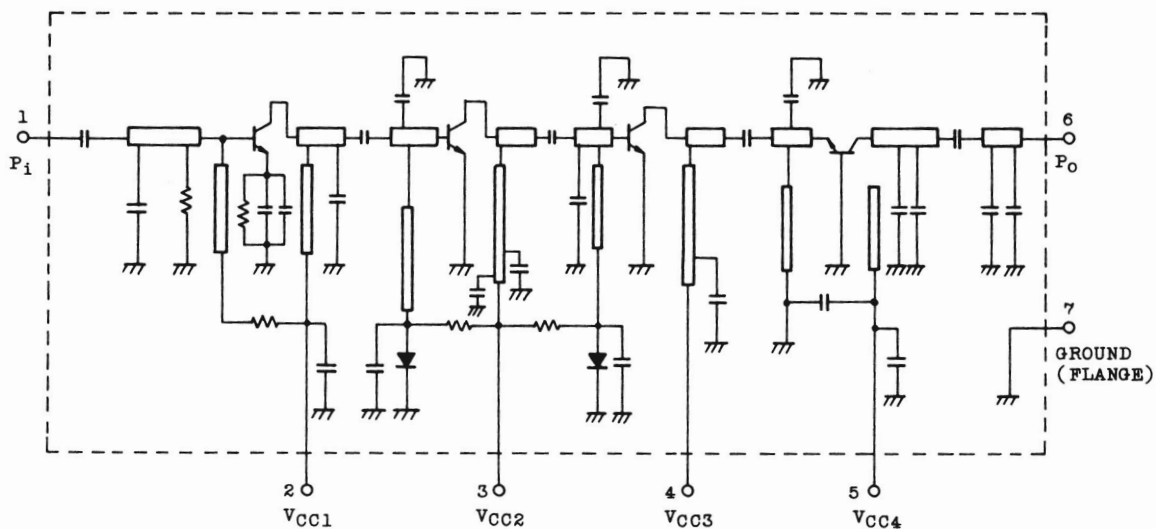


Weight : 35g

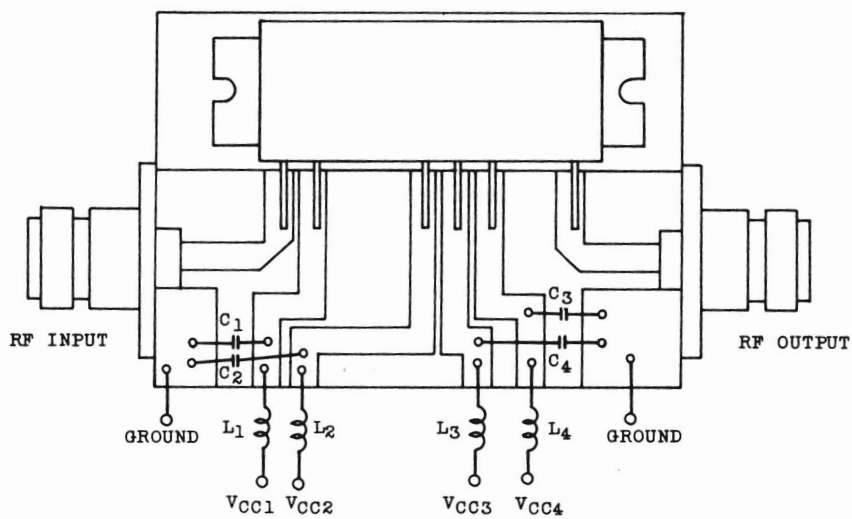
ELECTRICAL CHARACTERISTICS (Tc=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Frequency Range	f _{range}	-	825	-	845	MHz
Output Power	P _o	P _i =1mW, VCC1=8V VCC2=VCC3=VCC4=12.5V Z _g =Z _l =50Ω	6	-	-	W
Power Gain	G _p		37.7	-	-	dB
Total Efficiency	η _T		35	-	-	%
Input VSWR	VSWR _{in}		-	1.5	2.5	-
Harmonics	HRM		-	-	-25	dB
Load Mismatch	-	VCC1=8V, VCC2=12.5V P _i =1mW, VCC3=VCC4=15V VSWR load 20:1 all phase	No Degradation			-
Stability	-	P _i =1mW, VCC1=8V VCC3=VCC4=12.5V VCC2=0~12.5V VSWR load 3:1 all phase	All spurious output than 60dB below desired signal			-

SCHEMATIC



TEST MOUNT



C1~C4 : 15000pF, 10μF PARALLEL
 L1~L4 : φ0.8 ENAMEL WIRE, 8T, 5ID

