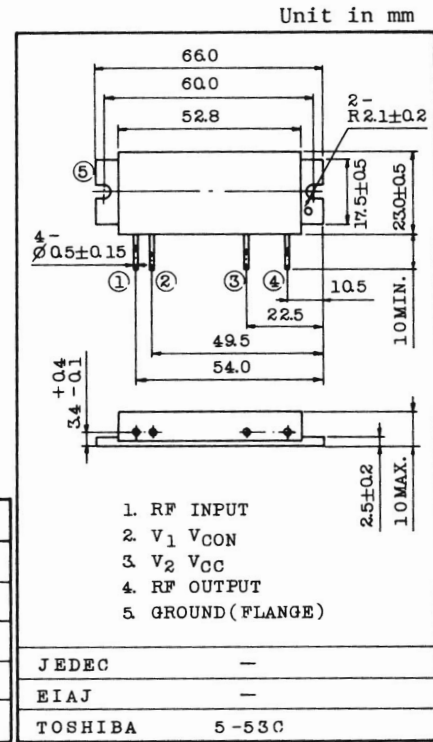


VHF POWER AMPLIFIER MODULE (HAM 25W FM)
220~225MHz BAND

- . Output Power : $P_o \geq 32W$
- . Minimum Gain : $G_p = 22.0dB$
- . Efficiency : $\eta_T \geq 45\%$

MAXIMUM RATINGS ($T_c = 25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
DC Supply Voltage	V_{CC}	16	V
DC Supply Voltage	V_{CON}	16	V
RF Input Power	P_i	300	mW
Operating Case Temperature Range	$T_{c(opr)}$	-30~100	$^\circ C$
Storage Temperature Range	T_{stg}	-40~110	$^\circ C$

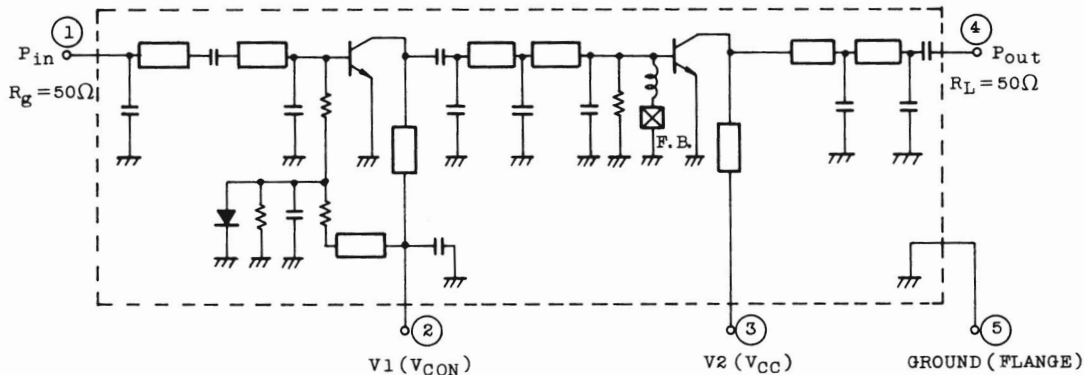


Weight: 35g

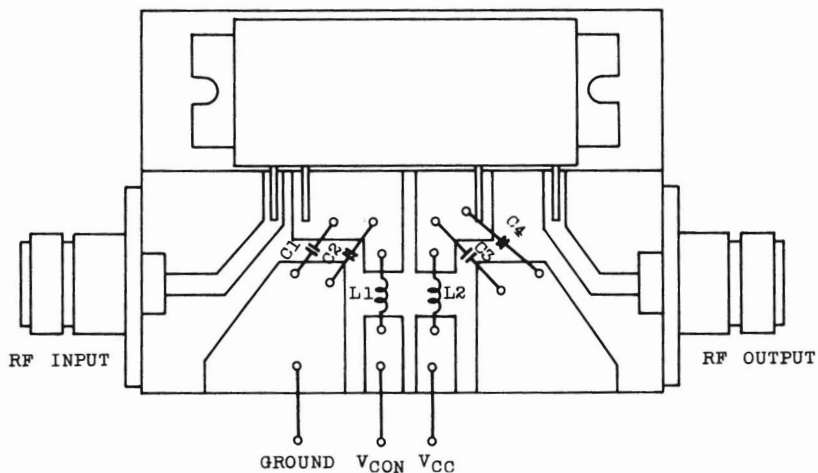
ELECTRICAL CHARACTERISTICS ($T_c = 25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Frequency	frange	-	220	-	225	MHz
Output Power	P_o	$P_i = 200mW$ $V_{CC} = 12.5V, V_{CON} = 12.5V$ $Z_g = Z_l = 50\Omega$	32	-	-	W
Power Gain	G_p		22.0	-	-	dB
Total Efficiency	η_T		45	-	-	%
Input VSWR	V_{SWRin}		-	1.5	2	-
Harmonics	HRM		-	-	-25	dB
Load Mismatch	-	$V_{CC} = 15V, V_{CON} = 12.5V$ $P_o = 30W$ VSWR load 20:1 all phase	No Degradation			-
Stability	-	$V_{CC} = 12.5V, P_i = 200mW$ $V_{CON} = 0 \sim 12.5V$ VSWR load 3:1 all phase	All spurious output than 60dB below desired signal			-

SCHEMATIC



TEST FIXTURE



- C1, C3 : 15000 pF
- C2, C4 : 1 μF
- L1, L2 : ∅ 0.8 Ag PLATED Cu WIRE, 8T, 5ID

