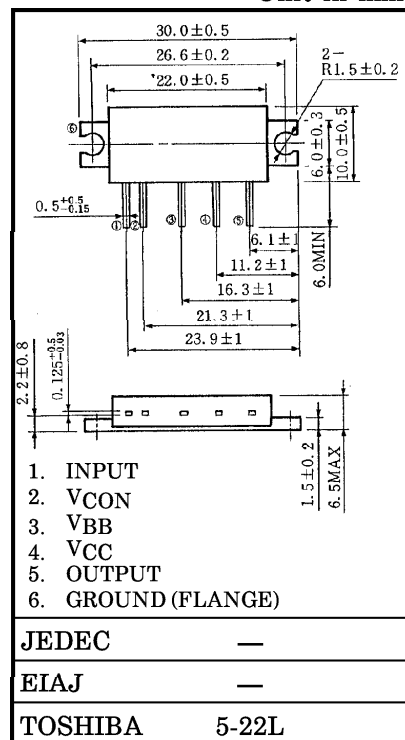


S-AU35AVL, S-AU35AL, S-AU35AH, S-AU35AVH, S-AU35ASH

UHF POWER AMPLIFIER MODULE

Unit in mm

- S-AU35AVL : f=360~380MHz
- S-AU35AL : f=400~430MHz
- S-AU35AH : f=450~470MHz
- S-AU35AVH : f=470~490MHz
- S-AU35ASH : f=490~512MHz



Weight : 3.5g

MAXIMUM RATINGS (Tc = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
DC Supply Voltage	V _{CC}	11	V
DC Supply Voltage	V _{CON}	10	V
DC Supply Voltage	V _{BB}	6	A
Input Power	P _i	400	mW
Operating Case Temperature Range	T _{c (opr)}	-30~100	°C
Storage Temperature Range	T _{stg}	-40~110	°C

ELECTRICAL CHARACTERISTICS (Tc = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Frequency Range	f _{range}	—	360	—	512	MHz
Output Power	P _o	P _i = 150mW V _{CC} = V _{CON} = 7.5V, V _{BB} = 5V Z _G = Z _L = 50Ω	2.6	—	—	W
Power Gain	G _p		12.3	—	—	dB
Total Efficiency	η _T		35	—	—	%
Input VSWR	VSWR _{in}		—	1.5	2.5	—
Harmonics	HRM		—	—	-20	dB
Load Mismatch	—	V _{CC} = V _{CON} = 9V V _{BB} = 5V P _i = 200mW VSWR load 20 : 1 all phase	No Degradation			—
Stability	—	V _{CC} = 6~9V, V _{CON} = 0~9V V _{BB} = 5V, V _{CON} ≤ V _{CC} P _i = 150mW VSWR load 6 : 1 all phase	All spurious output than 60dB below desired signal			—

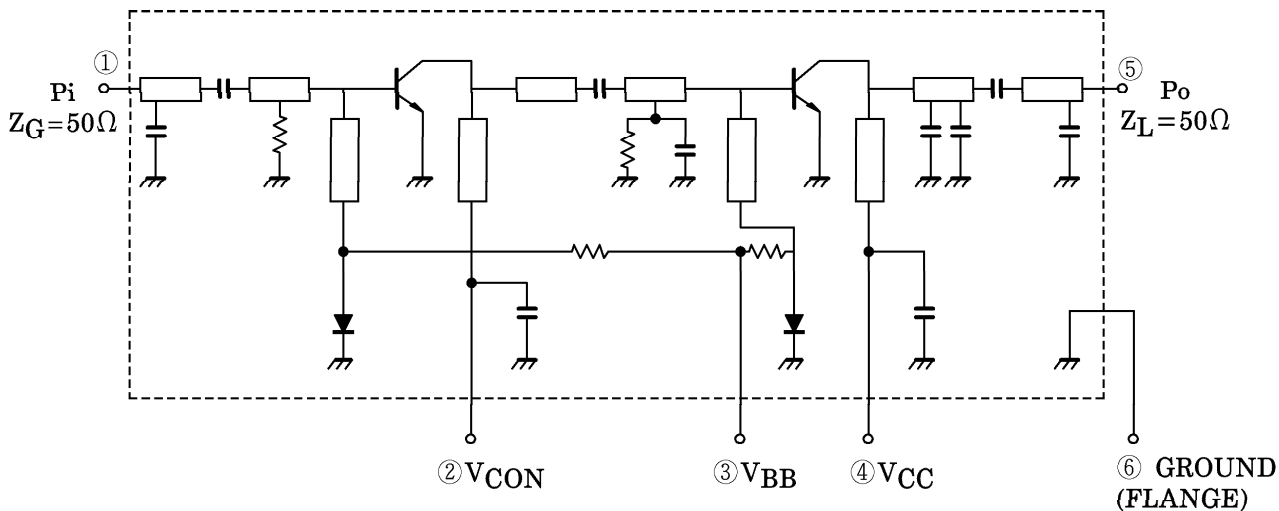
CAUTION

- This product has intersetting cap. Please pay attention for exceeding stress and foreign matter in your application. And not to take away the cap.
- Do not intermingle with normal industrial or domestic waste.

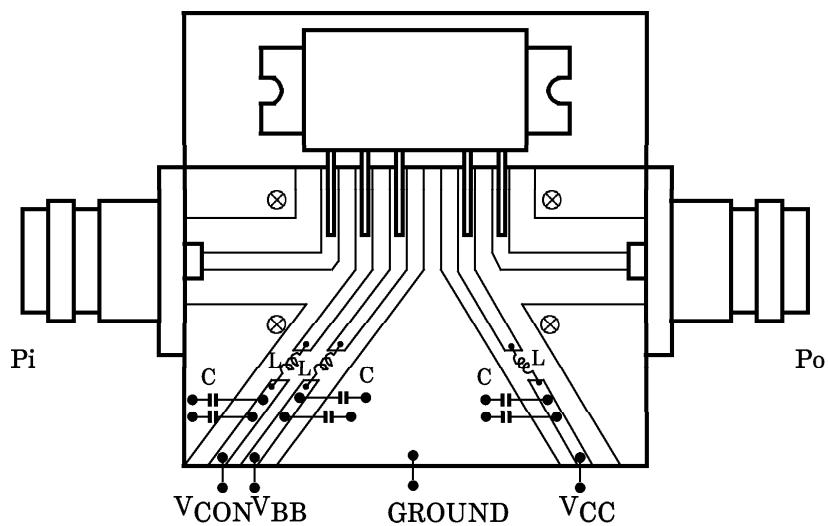
961001EAA2

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SCHEMATIC



TEST FIXTURE

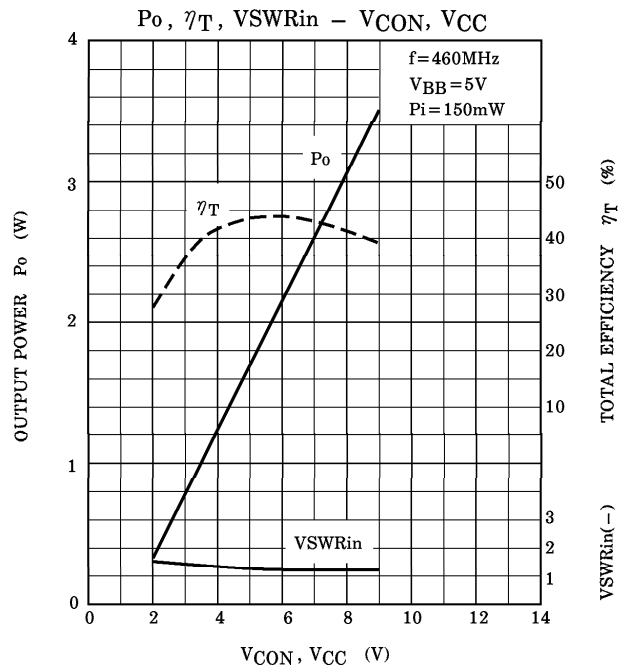
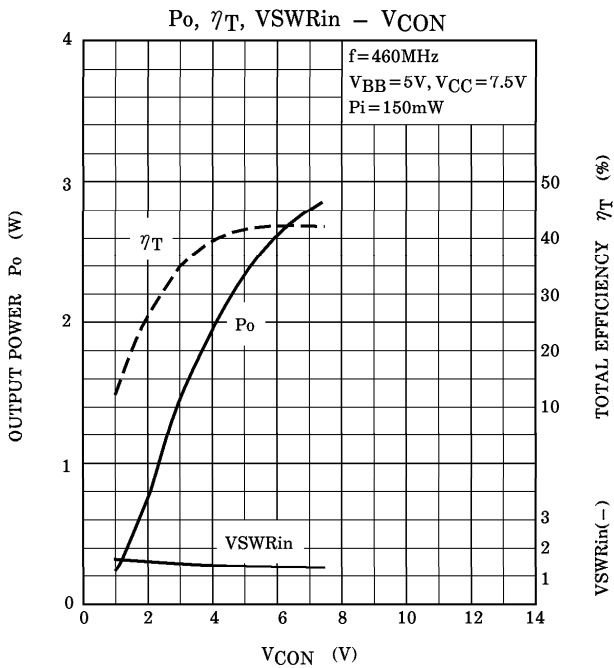
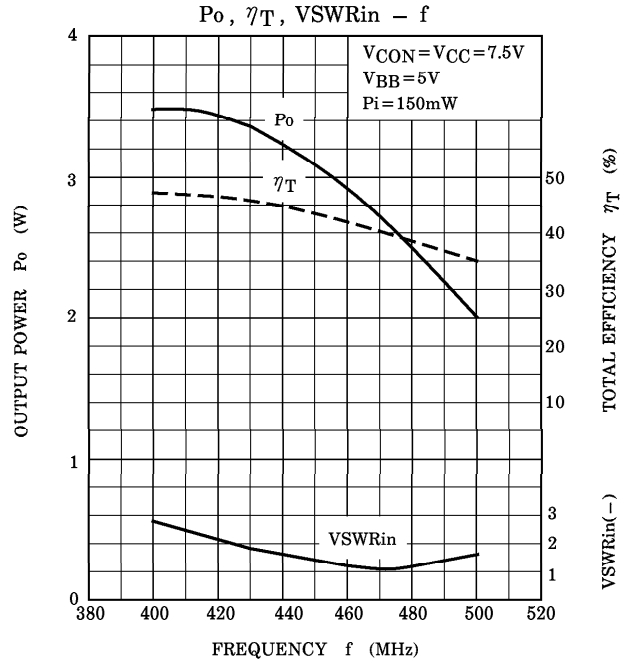
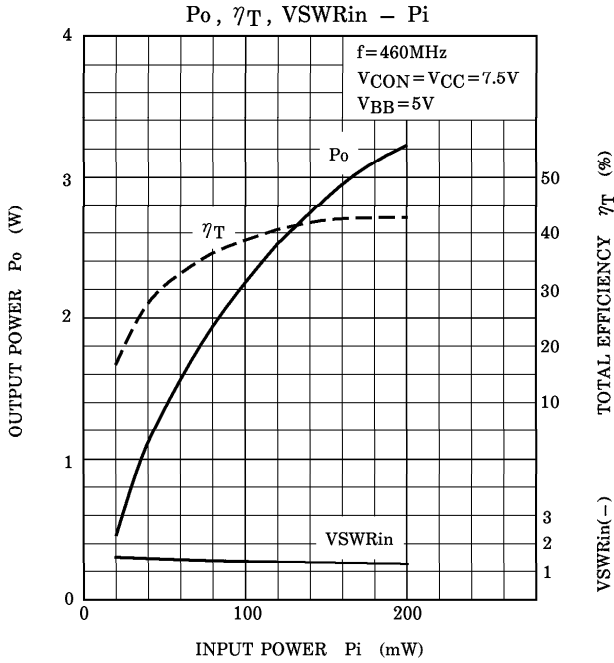


C : 22000pF, 10μF PARALLEL
 L : φ0.5 ENAMEL WIRE 3ID, 5T

961001EAA2'

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TYPICAL PERFORMANCE CURVES
(S-AU35AH)



CAUTION

These are only typical curves and devices are not necessarily guaranteed at these curves.