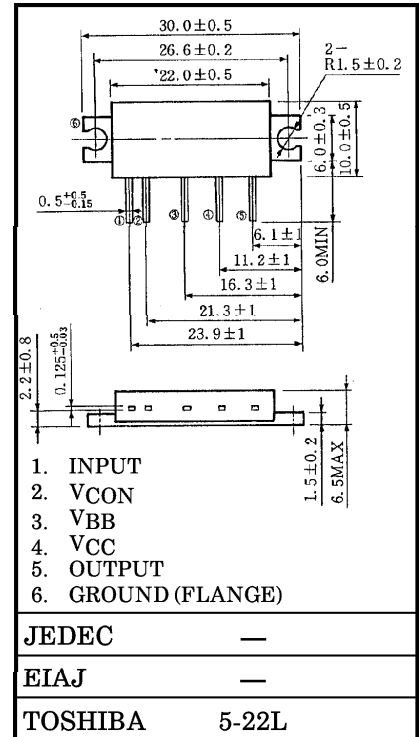


**S-AU35AVL, S-AU35AL, S-AU35AH, S-AU35AVH, S-AU35ASH**

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



MAXIMUM RATINGS (Tc = 25°C)

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

ELECTRICAL CHARACTERISTICS (Tc = 25°C)

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

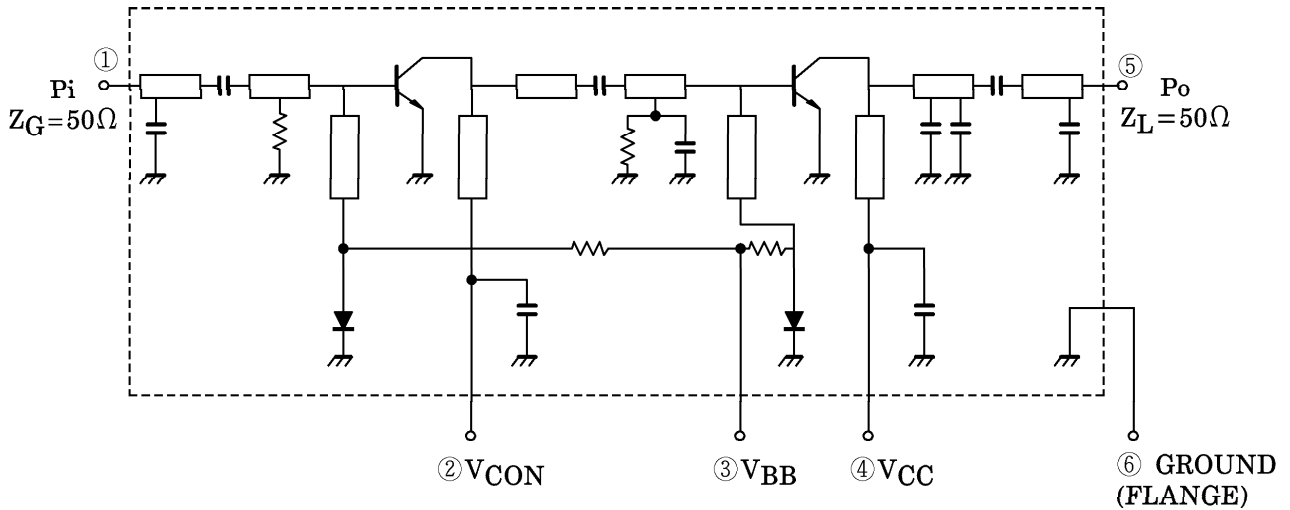
CAUTION

- 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.

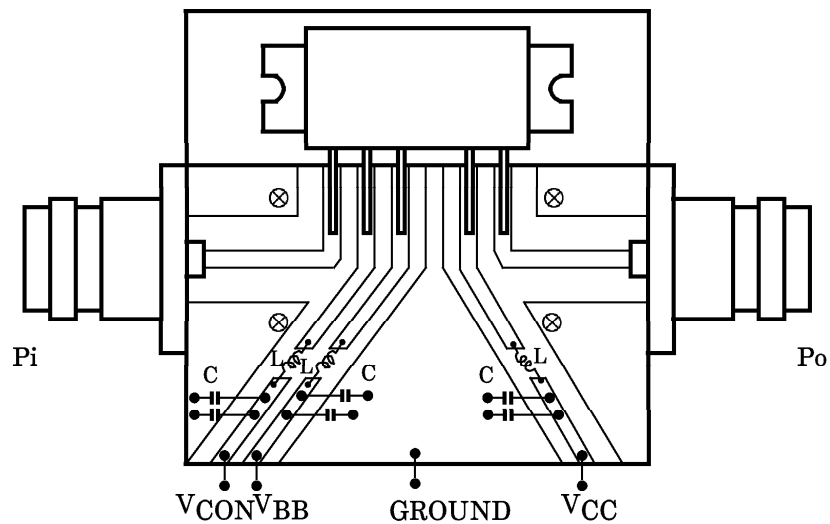
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SCHEMATIC



TEST FIXTURE

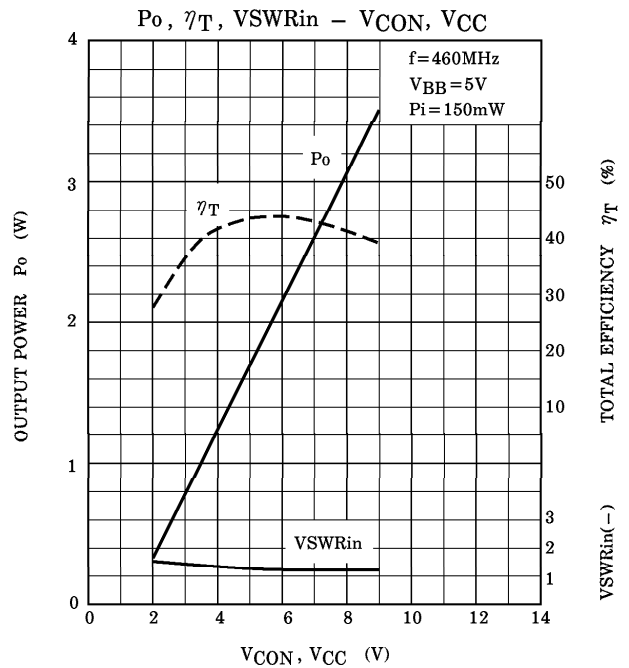
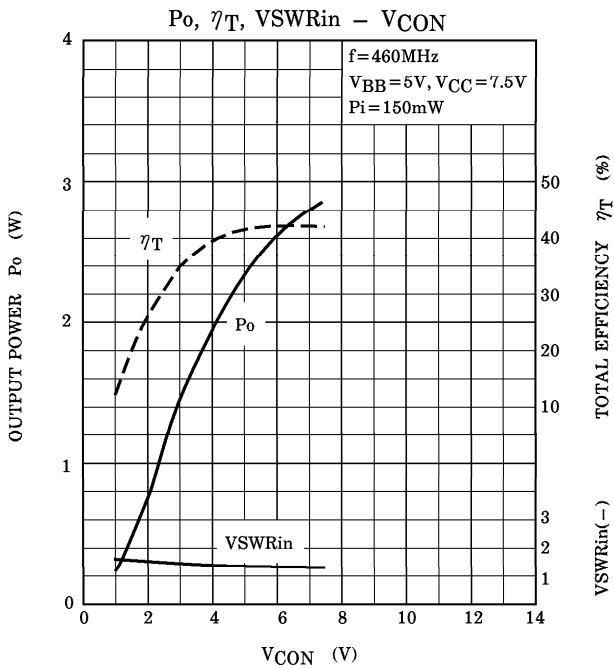
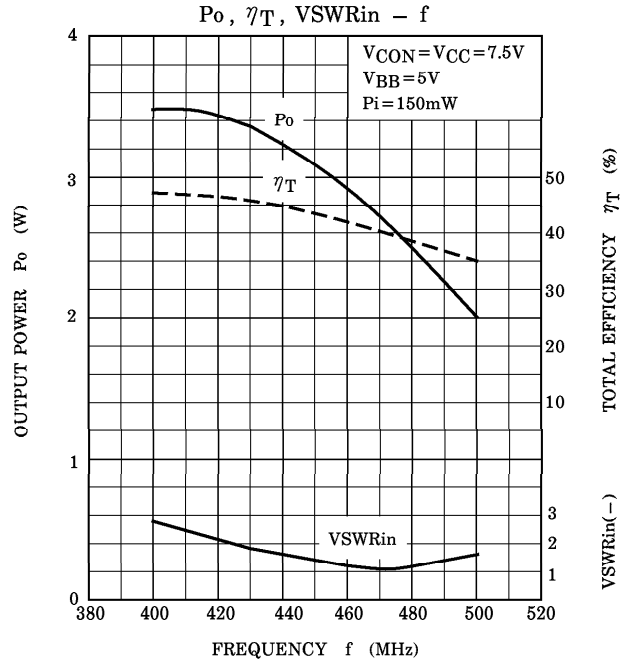
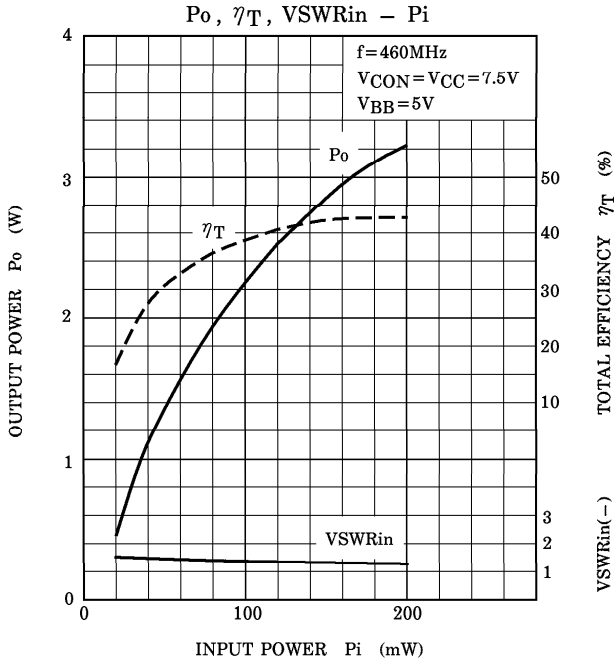


C : 22000pF, 10 $\mu$ F PARALLEL  
 L :  $\phi$ 0.5 ENAMEL WIRE 3ID, 5T

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.