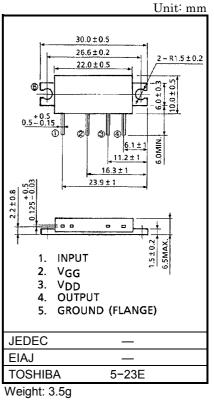
TOSHIBA RF POWER AMPLIFIER MODULE

S-AU50M

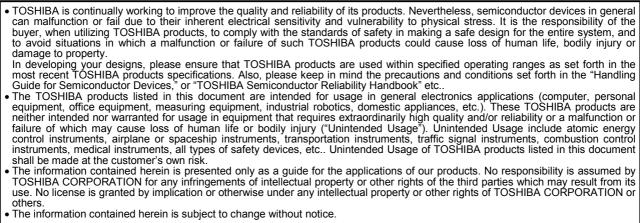
UHF BAND FM POWER AMPLIFIER MODULE HAND-HELD TRANSCEIVER

MAXIMUM RATINGS (Tc = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
DC Supply Voltage	V _{DD}	17	V
DC Supply Voltage	V _{GG}	6	V
Input Power	Pi	150	mW
Output Power	Po	12	W
Total Current	Ι _Τ	3	А
Operating Case Temperature Range	T _{c (opr)}	-30~100	°C
Storage Temperature Range	T _{stg}	-40~110	°C



000707EAA1



ELECTRICAL CHARACTERISTICS (Tc = 25°C)

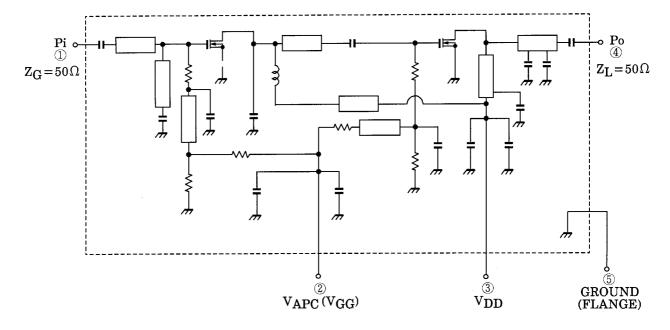
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Frequency Range	f _{range}	—	430	_	480	MHz
Output Power	Po		7	_	_	W
Power Gain	Gp		21.4	_		dB
Total Efficiency	η _T	V _{DD} = 9.6V, V _{GG} = 4V Pi = 50mW, Z _G = Z _L = 50Ω	40	_	_	%
Input VSWR	VSWRin		_	_	3.0	_
Harmonics	HRM		_	_	-25	dBc
Load Mismatch	_	V _{DD} = 15V, Pi = 50mW Po = 7W (V _{GG} = adjust) VSWR LOAD 20: 1 ALL PHASE	No Degradation		_	
Stability	_	V _{DD} = 7.5~11.5V, V _{GG} = 0~4V Pi = 50mW VSWR LOAD 3: 1 ALL PHASE	All spurious output than 60dB below desired signal		_	

CAUTION

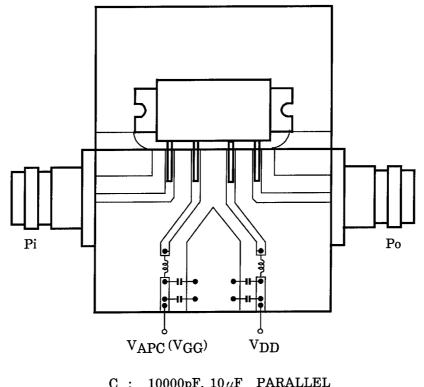
- This product has intersetting cap. Please pay attention for exceeding stress and foreign matter in your application. And not to take away the cap.
- Do not intermingle with normal industrial or domestic waste.
- This product is electrostatic sensitivity, please handle with caution.

TOSHIBA

SCHEMATIC

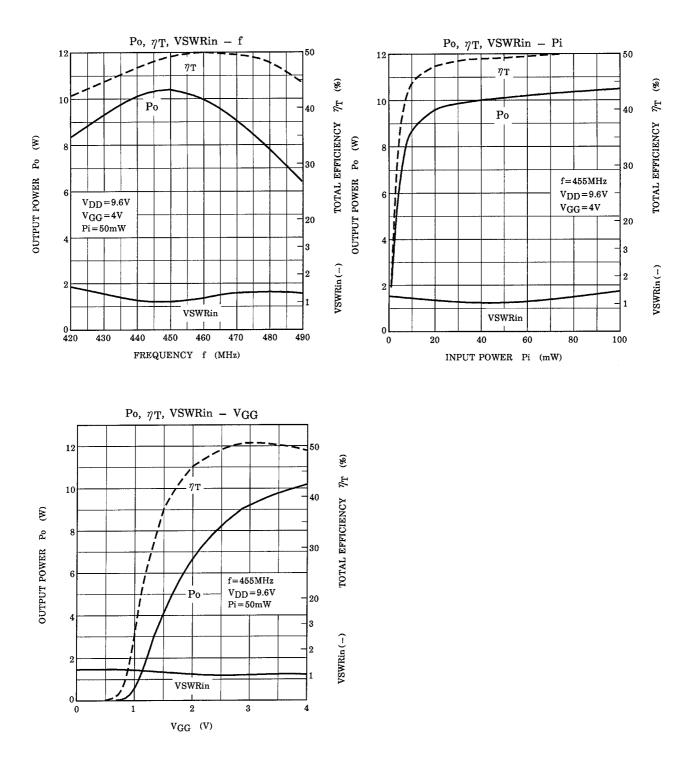


TEST FIXTURE



C : 10000pF, 10μ F PARALLEL L : $\phi 0.5$, 31D, 5T ENAMEL WIRE

TOSHIBA



CAUTION

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