TOSHIBA **S-AV28**

TOSHIBA RF POWER AMPLIFIER MODULE

S-AV28

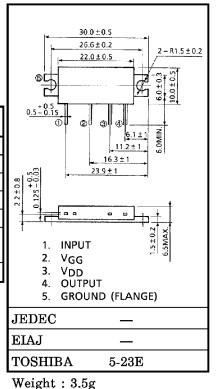
VHF BAND HAM FM RF POWER AMPLIFIER MODULE

HAND-HELD TRANSCEIVER

MAXIMUM RATINGS (Tc = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
DC Supply Voltage	$v_{ m DD}$	17	V
DC Supply Voltage	v_{GG}	6	V
Input Power	Pi	50	mW
Output Power	Po	12	W
Total Current	I_{T}	3	Α
Operating Case Temperature Range	$T_{c(\mathrm{opr})}$	-30~100	°C
Storage Temperature Range	$\mathrm{T_{stg}}$	-40~110	°C

Unit in mm



ELECTRICAL CHARACTERISTICS (Tc = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Frequency Range	$\mathbf{f}_{ ext{range}}$		144	_	148	MHz
Output Power	Po	$V_{DD} = 9.6V$ $V_{GG} = 4V$ $Pi = 20mW$ $Z_{G} = Z_{L} = 50\Omega$	7	_	_	W
Power Gain	G_{p}		25.4	-	_	dB
Total Efficiency	$\eta_{\mathbf{T}}$		50	_	_	%
Input VSWR	VSWRin		_	_	2.5	_
Harmonics	HRM		_	_	-15	dB
Load Mismatch	_	V _{DD} =15V, Pi=20mW 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=20mW 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.
- This product is electrostatic sensitivity, please handle with caution.

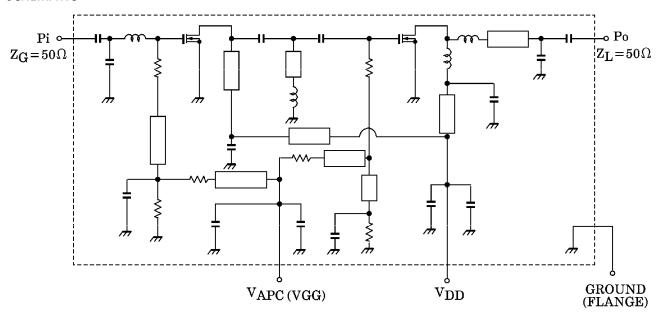
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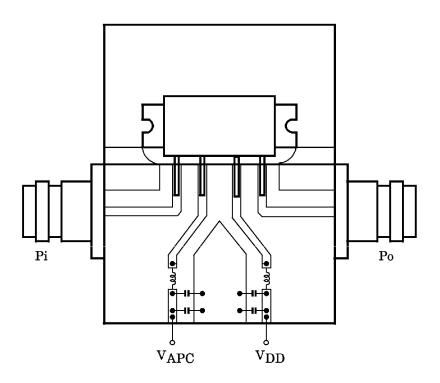
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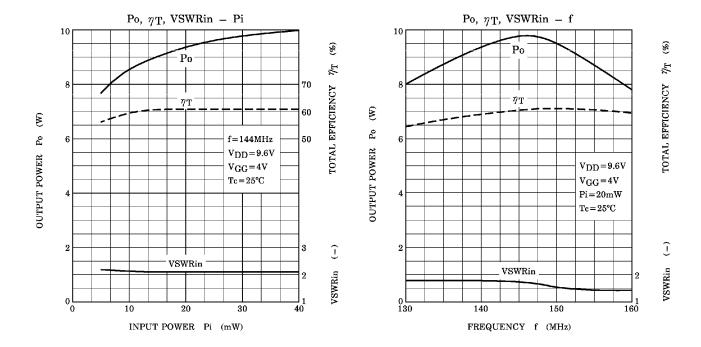
SCHEMATIC

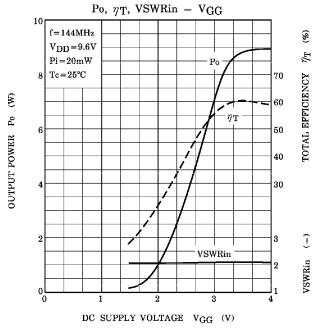


TEST FIXTURE



C : 10000pF, 10μ F PARALLEL L : ϕ 0.5, 3ID, 5T ENAMEL WIRE





CAUTION

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