TOSHIBA S-AU26

TOSHIBA RF POWER AMPLIFIER MODULE

S-AU26

• High Gain : G_p=27.6dB (Min.)

MAXIMUM RATINGS (Tc = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
DC Supply Voltage	v_{CC}	16	V
DC Supply Voltage	$v_{\rm CON}$	16	v
DC Supply Voltage	v_{BB}	5.5	v
Input Power	Pi	30	mW
Output Power	Po	10	w
Total Current	${ m I}_{ m T}$	2	Α
Operating Case Temperature Range	Tc(opr)	-30~100	°C
Storage Temperature Range	$\mathrm{T_{stg}}$	-40~110	$^{\circ}\mathrm{C}$

Unit in mm 42±1 37 ± 1 30 L 1 0.5 ± 0.15 9.6± 14.6 ± 1 22.3±1 27.3 ± 1 32.4 ± 1 6. 3MAX INPUT 1. 2. VCON V_{BB} 3. v_{cc} OUTPUT GROUND (FLANGE) **JEDEC** EIAJ **TOSHIBA** 5-31A

Weight: 5.4g

ELECTRICAL CHARACTERISTICS (Tc = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Frequency Range	f _{range}	_	430	_	450	MHz
Output Power	Po	$V_{CC} = V_{CON} = 12.5V$	7	_		W
Power Gain	$G_{\mathbf{p}}$		27.6	_	_	dB
Total Efficiency	$\eta_{\mathbf{T}}$	$V_{\mathrm{BB}} = 5V$ $P_{\mathrm{i}} = 12 \text{mW}$	35	40	_	%
Input VSWR	VSWRin	$Z_G = Z_L = 50\Omega$		_	2.5	_
Harmonics	HRM		<u> </u>	l —	-15	dВ
Load Mismatch	_	Po=7.5W, Pi=Adjust V _{CC} =V _{CON} =15V, V _{BB} =5V VSWR load 20:1 all phase	No Degradation		_	
Stability	_	$V_{CC}=V_{CON}=5\sim13V$ $V_{BB}=5V$, $P_0<10W$ $P_1=0\sim20mW$ $V_{SWR}=1000$ load 0.100 all phase	All spurious output than 60dB below desired signal		_	

Caution

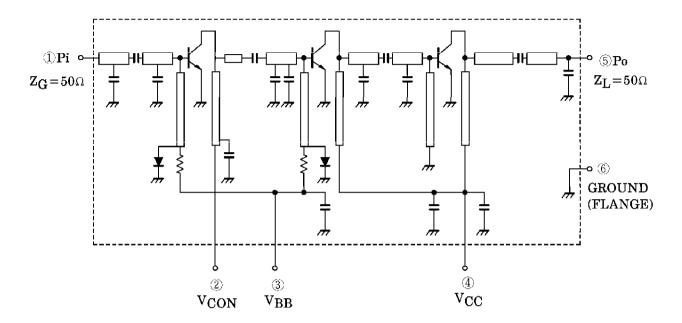
- This product has intersetting cap. Please pay attention for exceeding stress and foreign matter in your application. And not to take away the cap.
- Beryllia Ceramics is used in this product. The dust or vapor can be dangerous to humans. Do not break, cut, crush or dissolve chemically. Dispose of this product properly according to law. Do not intermingle with normal industrial or domestic waste.

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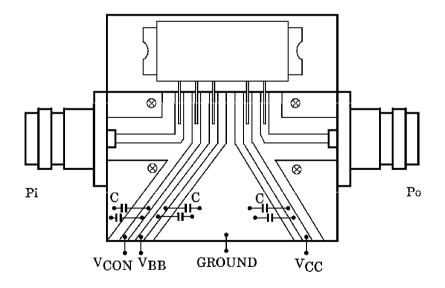
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TOSHIBA S-AU26

SCHEMATIC



TEST FIXTURE



C: $0.1\mu\text{F}$, $10\mu\text{F}$ PARALLEL

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