5.8W AUDIO POWER AMPLIFIER

FOR CAR-STEREO, CAR-RADIO OUTPUT

. Output Fower:

 $P_{OUT}=5.8W(Typ.)$  at  $V_{OC}=13.2V$ ,  $R_{L}=4\Omega$ , THD=10X $P_{OUT}=9.2W(Typ.)$  at  $V_{OC}=13.2V$ ,  $R_{L}=2\Omega$ , THD=10X

. Maximum Output Power:

 $P_{OM}=9.5W(Typ.)$  at  $V_{CC}=13.2V$ ,  $R_L=4\Omega$ 

. Low Distortion:

THD=0.15% at POUT=1W, Gy=55dB THD=0.07% at POUT=1W, Gy=44dB

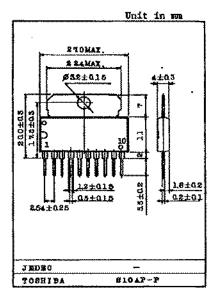
. Wide Operating Supply Voltage Range :  $V_{\rm CC^{*}}9 \sim 18 \rm V$ 

. Low Noise.

. Current Limiting for Short-Gircuit Protection.

. Built in Thermal Short-down Circuit.

. Built in Surge Voltage Protection Circuit.



### MAXIMUM RATINGS (Ta-250C)

CHARACTERISTIC	Symbol	RATING	UNIT	
Operating Supply Voltage	Vcc	18	٧	
Quiescent Supply Voltage	Vccq	25	V	
Output Current (Peak)	Ig (peak)	4.5	A	
Power Dissipation	PD	7.5	¥	
Operating Temperature	Topr	-20~75	°c	
Storage Temperature	Tatg .	-55 ~ 150 °	°c	

(Minimum Operating Voltage in 9V)

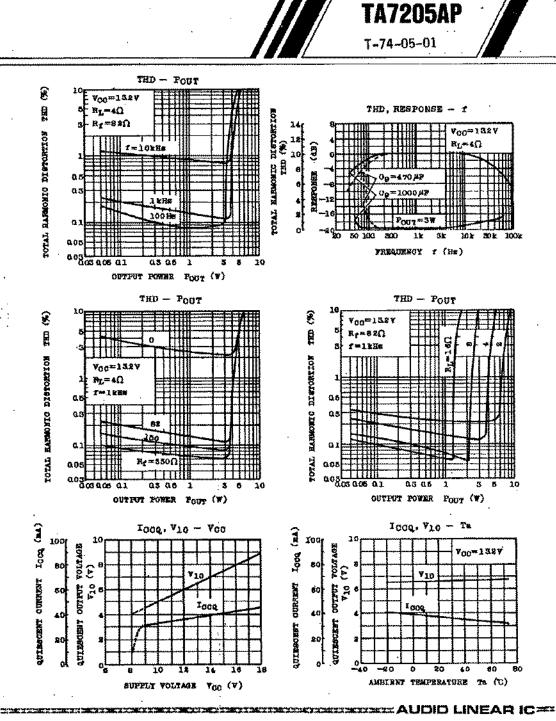
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#### ELECTRICAL CHARACTERISTICS

(Unless otherwise specified  $V_{CC}=12.5V$ ,  $R_L=4\Omega$ ,  $R_g=600\Omega$ ,  $R_f=82\Omega$ , f=1kHz,  $Ta=25^DC$ )

(Autess otherwise shecrifed	VCC-12.3V, RL 44th Rg booth Rf 82th, r=1kHz, Taw25 C)						
CHARACTERISTIC	SYMBOL	TEST CIR- CUIT	TEST CONDITION	нін.	TYP.	MAX.	UNIT
Quiescent Current	TCCQ			-		60	mA.
			Vcc-18v	-		80	
Output Power Po	POUT	T	THD=101	4.5	5		*
		-	Vcc=13.2V, THD=10%	-	5.8	-	
		ļ.	V <sub>CC</sub> =13.2V, R <sub>L</sub> =2Ω, THD=10%	-	9.2		
Maximum Output Power	POM	] -	VCC-13.2V	] -	9.5	-	¥
Total Harmonic Distortion	THD	-	POUT-19	-	0.15	1.0	X
			POUT+100mW	-	0.2	1.0	
			P <sub>OUT</sub> =1W, R <sub>L</sub> =2Ω	-	0.25	1,0	
Voltage Gain (Note)	Gy	-	VIN=2.45mVrms	52	55	58	₫B
Input Resistance	RIN	-	Vour=2Vras	30	40	**	kΩ
Output Noise Voltage	VNO	-	Rg=10kΩ, BW=50 ~ 20kHz	-	_	3.5	₽¥V

Note: In regard to the value of voltage gain (closed loop), it is possible to be classified.



TOSHIBA, ELECTRONIC

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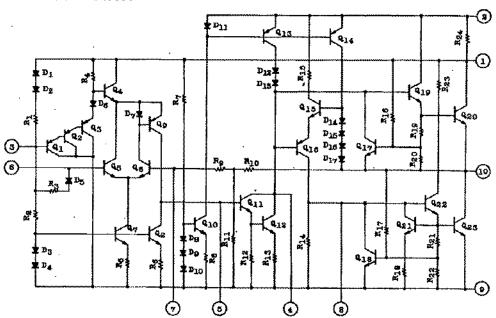
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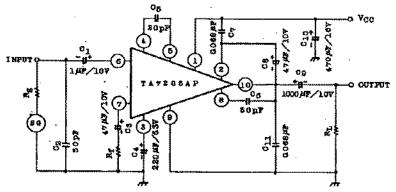
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#### EQUIVALENT CIRCUIT



#### TEST AND APPLICATION CIRCUIT



Note: Metal Tab must be connected to GND level or Non-connection.

C7 and C11 are polyester film capacitors.

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