SANYO SPECIFICATIONS

Thick Film Hybrid IC

STK426-530

2-channel High Efficiency AF Power Amplifier

◆Case Outline

22 pins (See attached case outline drawing.)

♦Function

2-channel high efficiency AF power amplifier

Application

100W audio use

◆Feature

·Low power consumption

•Built-in thermal detection circuit and switch circuit of AB class

◆Maximum Ratings/Ta = 25 °C

Item	Symbol	Conditions	Ratings	Unit
Power Supply Voltage	Vcc max		±77	
Thermal Resistance	θј−с	Per one power TR	1.5	°C/W
Junction Temperature	Tj		150	℃
Operating Substrate Temperature	Тс		125	℃
Storage Temperature	Tstg		-30 to +125	℃
Available Time for Load Shorte- circuit *1	ts	Vcc= \pm 49V, RL=6 Ω , Po=100W, f=50Hz, V12=0V	0.5	s
Pin12 Input Voltage	V ₁₂		25	V

 Φ Operating Characteristics /Ta=25 °C, RL=6 Ω (Non-inductive Load), Rg=600 Ω, VG=40dB, 100kHz LPF ON

	Symbol	Conditions					Ratings		Unit	
to the second literate and the second		Vcc[V]	f[Hz]	Po[W]	THD[%]		min.	typ.	max.	UIII
Operating Power Supply Voltage	Vccop						±25	· _	±77	V
Quiescent Current	Icco	±63					20	-	120	mA
Output Power . *1	Ро	±49	20 to 20k		0.4		100	-	-	W
Total Harmonic Distortion #1	THD1	±49	1k	1.0			-	-	0.4	%
	THD2	±49	1k	50				0.02		/*
Frequency Characteristics #1						+0	20 to 50k			
	fl, fh	±49		1.0		-3 dB			Hz	
Input Impedance	ri	±49	1k	1.0			-	55	-	kΩ
Output Noise Voltage	VNO	±63				Rg=2. $2k\Omega$	-	-	1	mVrms
Neutral Voltage	Vn	±63					-70	0	+70	mV
Thermal Detection Temperature	Td						-	145		℃
V ₁₂ for Class AB Operation	V _{12H}						3. 5	-	_	V
V ₁₂ for High Efficency Operation	V _{12L}						0	-	0.8	V

(Note) · Item *1 are measured at 1 channel operation.

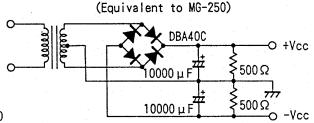
- · All tests are measured using a constant-voltage supply unless otherwise specified.
- Available time for load short-circuit and output noise voltage are measured using the transformer supply specified right.
 Specified Transformer Power Supply

• Operating characteristics are measured using the choke coil specified below.

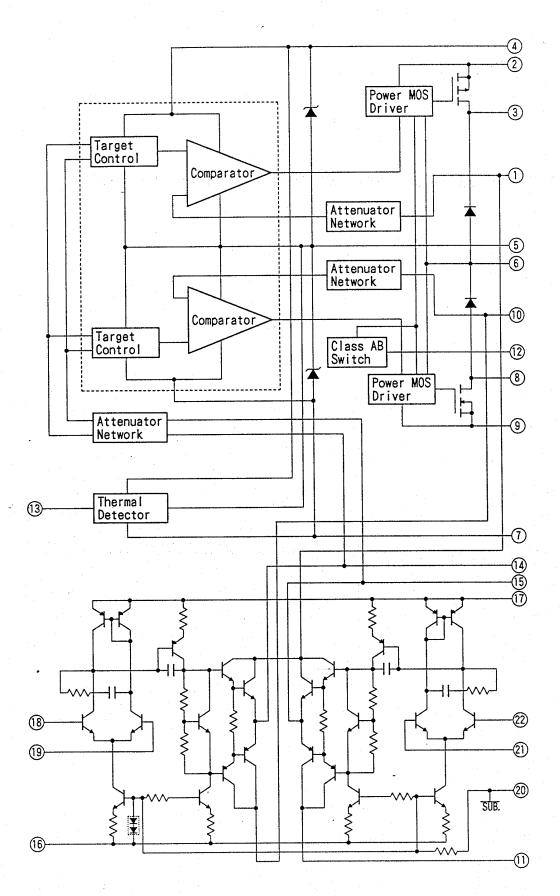
 The output noise voltage is peak value of an average-reading meter with a rms value scale(VTVM). A regulated AC supply(50Hz) should be used to eliminate the effects of AC primary line flicker noise.

• Specified choke coil : Toho Zinc HK10S130-0800

Hitachi HK09100B

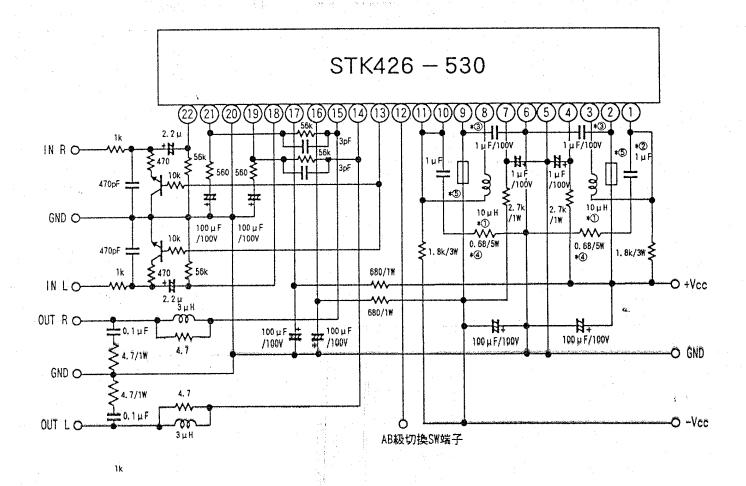


TENTATIVE



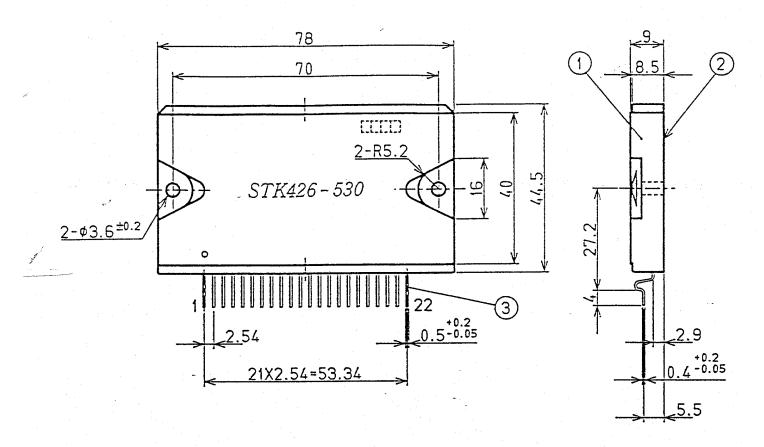
■ 配線図例………

(STK426 - 530 (100W品)



- *①は、指定チョークコイル担当。
- *②は、松下製マイラコンデンサECQE1105KF担当。
 - *③は、高周波平滑対応コンデンサ。
 - *④は、酸化金属皮膜抵抗(赤羽電具製作所 RSMF5B0、68 Ω J担当)。
 - *⑤は、フェライトビーズ((株)村田製作所: BL02RN2担当)。
 - ・指定無き抵抗器は、すべて1/4W。

Unit: mm



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