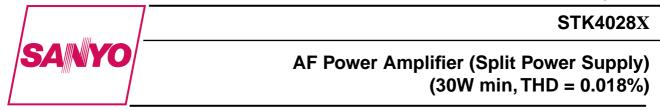
Thick Film Hybrid IC

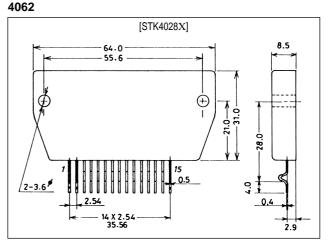


Features

- · Compact packaging supports slimmer set designs
- Series designed for 30 up to 100W and pin-compatibility
- Simpler heat sink design facilitates thermal design of slim stereo sets
- Current mirror circuit application reduces distortion to 0.018%
- Supports additon of electronic circuits for thermal shutdown and load-short protection circuit as well as pop noise muting which occurs when the power supply switch is turned on and off

Package Dimensions

unit: mm



Specifications

Maximum Ratings at $Ta = 25^{\circ}C$

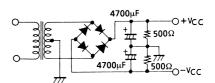
Parameter	Symbol	Conditions	Ratings	Unit
Supply voltage	V _{CC} max		±42	V
Thermal resistance	Өј-с		2.1	°C/W
Junction temperature	Tj		150	°C
Operating substrate temperature	Tc		125	°C
Storage temperature	Tstg		-30 to +125	°C
Available time for load short-circuit	t _s *1	$V_{CC} = \pm 29V$, $R_L = 8\Omega$, f = 50Hz, Po = 30W	2	S

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Parameter	Symbol	Conditions	min	typ	max	Unit
Quiescent current	Icco	V _{CC} = ±35.5V	15		120	mA
Output power	P _O (1)	THD = 0.018%, f = 20Hz to 20kHz	30			W
	P _O (2)	$V_{CC} = \pm 26 \text{V}, \text{THD} = 0.04\%,$ $R_L = 4\Omega, \text{ f} = 1 \text{kHz}$	35			W
Total harmonic distortion	THD	$V_{CC} = \pm 29V, f = 1kHz, P_0 = 1.0W$			0.008	%
Frequency characteristic	f _L , f _H	$V_{CC} = \pm 29V,$ $P_{O} = 1.0W, -3$ dB		20 to 50k		Hz
Input impedance	ri	$V_{CC} = \pm 29V, f = 1kHz, P_0 = 1.0W$		55		kΩ
Output noise voltage	V _{NO} *2	V_{CC} = ±35.5V, Rg = 10k Ω			1.2	mVrms
Neutral voltage	V _N	V _{CC} = ±35.5V	-70	0	+70	mV

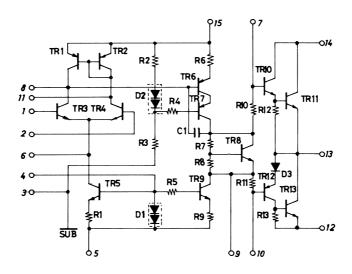
Notes. For power supply at the time of test, use a constant-voltage power supply unless otherwise specified.

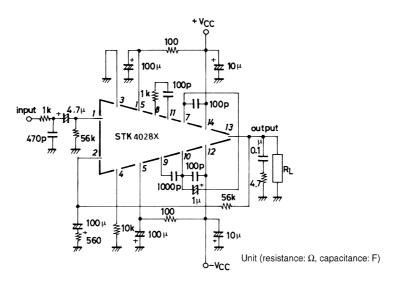
- *1 For measurement of available time for load short-circuit and output noise voltage, use the specified transformer power supply shown right.
- *2 The output noise voltage is represented by the peak value on rms scale (VTVM) of average value indicating type. The noise voltage waveform includes no flicker noise.

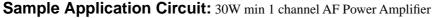


Specified Transformer Power Supply (Equivalent to RP-25)

Equivalent Circuit







- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.
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