

STK-2230 SERIES

**THICK-FILM HYBRID INTEGRATED CIRCUIT  
2-CHANNEL D.P.P. SERIES  
INCORPORATING OUTPUT SERIES RESISTORS**

These STK-2230 series devices have unique Sanyo output resistors (metal resistors formed on IMST substrate), permitting complete reduction of emitter resistance and thereby contributing to lowered switching distortion, improved characteristics and tonal qualities, and enhanced cost savings.

**MODELS**

Output (W)	30	40	50
STK-2230 series	STK-2230	STK-2240	STK-2250

**FEATURES**

- 2 channels are contained in one package
- Incorporates output series resistors made of metal resistors that have proven performance records with D.P.P. 1000 series.
  - Allowable power dissipation for the resistor is 4 W or higher, permitting accommodation over all loads.
  - Allowable peak currents are 18 A or greater, facilitating countermeasures for shorted loads and other severe irregularities.
  - Builtin output series resistors meet various safety standards, and facilitate design of printed circuit boards.
- By reducing emitter resistance to zero, lower switching distortions are realized. Builtin output series resistor Ro provides adequate protection for short circuit loads. In addition, it permits application of detecting resistors for protecting circuits.
- A 0.01% max distortion factor can be obtained by employing STK-3042 II (or STK-3062 II) for the preceding stage voltage amplifier. Furthermore, power supply pins for the 2 channels are independent of each other. This lowers mutual interference and contributes to low distortion factors.
- Maximum power supply voltages (maximum ratings) have substantially been improved over prior products. This enhances regulation margins for the power supply transformer and permits cost savings.

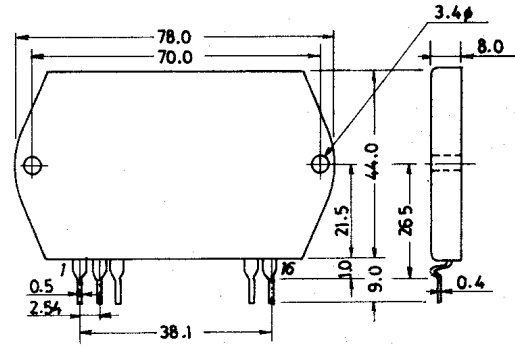
**MAIN SPECIFICATIONS**

Model	Maximum ratings/ $T_a = 25^\circ\text{C}$						Recommended power supply voltage	Operational characteristics			Comments
	$V_{CC-max}$	$\theta_{j-c}$	IC max	$T_j$	$t_s$ (Shorted load permissible time)	$T_{stg}$		Closed loop gain	Maximum output ( $R_L = 8\Omega$ )	Distortion factor	
	V	$^\circ\text{C/W}$	A	$^\circ\text{C}$	sec	$^\circ\text{C}$		dB	W	%	
STK-2230	$\pm 48$	2.1	4	150	2	$-30 \sim +105$	$\pm 30$	26.3	30	0.01	Ro equipped
STK-2240	$\pm 54$	1.8	5	150	2	$-30 \sim +105$	$\pm 33.5$	26.3	40	0.01	Ro equipped
STK-2250	$\pm 59$	1.8	5	150	2	$-30 \sim +105$	$\pm 37$	26.3	50	0.01	Ro equipped

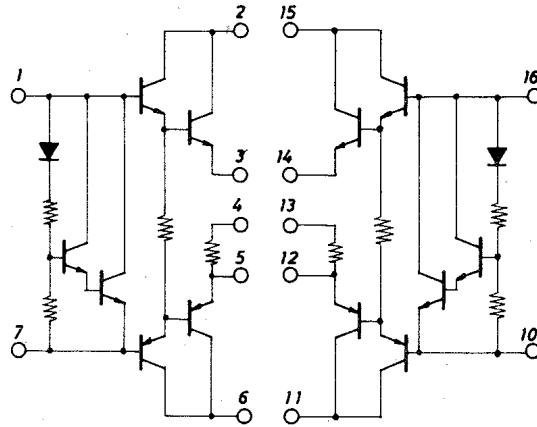
These specifications are subject to change without notice.

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Case Outline 4015  
(unit: mm)



Equivalent circuit



Sample application circuit (doubles as test circuit)

