Ordering number: E 5168 396-010供应商

Thick Film Hybrid IC



No. 5168

STK396-010

Electromagnetic Focus Output 1-channel Amplifier ($I_C max = 2A$)

Overview

The STK396-010 is a dynamic focus output amplifier IC developed for the electromagnetic focus in CRT-type projection color TVs. It can be used to drive 3 focus coils connected in series for high withstand voltage designs.

Applications

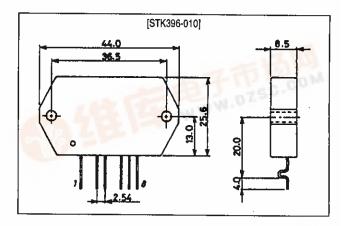
CRT-type color projection TVs

- General models
- · High-quality TVs
- · Ultrahigh definition projection displays

Package Dimensions Williams

unit: mm

4159



Series Organization

Туре No.	Maximum ratings			Electrical characteristics				12410
	V _{CC} max	I _C max	θј-с	V _{cc}	Load Inductance L	lop-p max (sawtooth wave)	Bandwidth (Hz)	Notes
STK396-010	160V	2A	3.0°C/W	115V	1.8mH	0.6A	70 to 100k	1 channel
STK397-010	160V	1.5A	3.0°C/W	115V	1.8mH	0.6A	70 to 100k	2 channels

Specifications

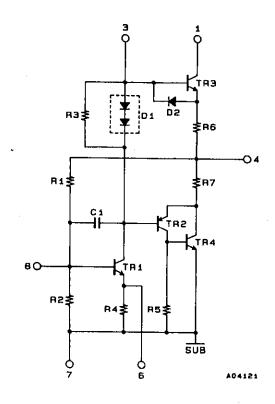
Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V _{CC} max		160	V
Maximum collector current	I _C max	Transistors 3 and 4	2	A
Thermal resistance	θj-c	Transistors 3 and 4, per device	3.0	°C/W
Junction temperature	Tj	- AVE L	150	°C
Operating substrate temperature	Tc	16 W W W	125	°C
Storage temperature	Tstg	- COW	-30 to +125	•c

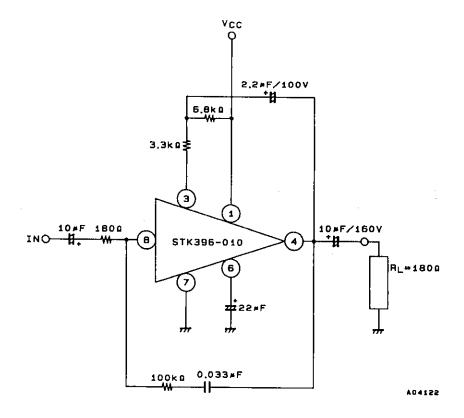
Operating Characteristics at Ta = 25°C, $Rg = 50\Omega$, $V_{CC} = \pm 115V$

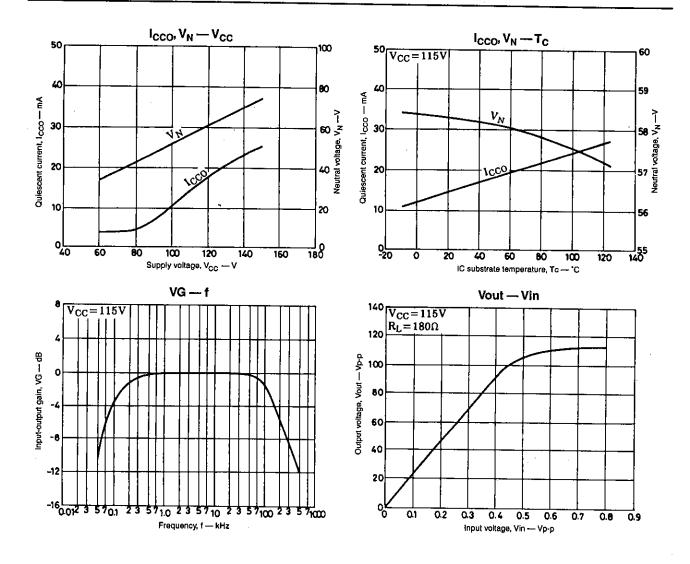
Parameter	Symbol	Conditions	min	typ	max	Unit
Output noise voltage	V _{NO}	$Rg = 0\Omega$	_	_	2.0	mVrms
Quiescent current	Icco		-	20	50	mA
Neutral voltage	V _N		56	58	60	· V
Frequency bandwidth	f _L , f _H	±6dB	-	70 to 100k		Hz

Equivalent Circuit



Test Circuit





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