CHROMA SIGNAL HUE TINT CONTROLLER

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GENERAL DESCRIPTION

查询NJM2255供应商

NJM2255 is a Chroma signal Hue, Tint controller IC, to be used for VCR, LCD & AV equipments.

In play back operation of video signals of VCRs, Hue and Tint of Chroma signal can be adjusted independently and continuousely by the external DC voltage. NJM2255 internalizes the variable capacitor in it, so that it can be operated with minimal external components.

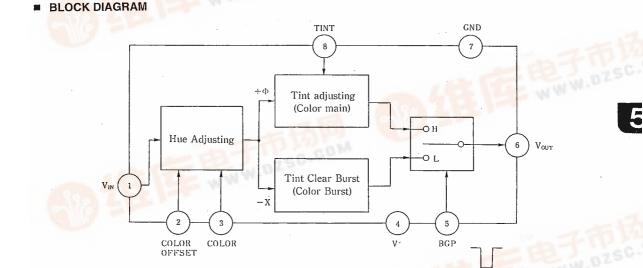
FEATURES

JRC

- Operating Voltage (+4.7V~+5.3V)
- Internalizing variable capacitor
- Internalizing changeable Gain Amplifier
- Hue and Tint of Chroma signals can be adjusted continuousely by DC voltage (0V-5V)
- Internalizing Dead Band Circuit
- Package Outline DIP8
- Bipolar Technology

APPLICATIONS

VCR, LCD, AV equipments



CONTROL INPUT - OUTPUT SIGNAL

		- CZ 012
48	swi	output Signal
6 2 5	Н	Color Main
	L	Color Burst







NJM2255D

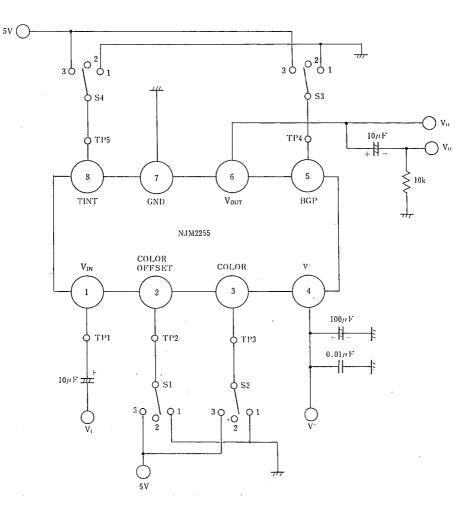
BGP:Burst Gate Pulse

捷多邦,专业PCB打样工厂,24小时加 急出员**M2255**

NJM2255

TEST CIRCUIT

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■ ABSOLUTE MAXIMUM RATINGS

100	0.01	∞
(18	i=25	(J)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V*	7	v
Power Dissipation	Po	500 .	mW
Operating Temperature Range	Topr	-20~+75	Ĵ
Storage Temperature Range	Tstg	-40~+125	C

ELECTRICAL CHARACTERISTICS

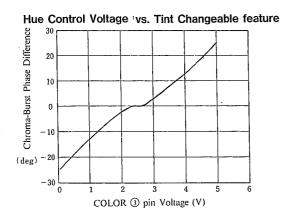
PARAMETER	SYMBOL	SWITCH						TVD	MAY	UNIT
		S1	S2	S3	S4	TEST CONDITION	MIN.	TYP.	MAX.	UNII
Operating Current	lcc	2	2	2	2	No signal	_	22.0	28.0	mA
Voltage Gain 1	GC	2	2	3	2	V _{OUT} /V _{in}	-1.0	0	1.0	dB
Voltage Gain 2	GB	2	2	1	2	V _{OUT} /V _{IN}	-1.0	0	1.0	dB
Hue Offset	TI	2	2		2	S3=1/3 VOUT Phase difference	-3.5	0	3.5	deg
Hue Changeable width 1	T2	2	3		2	S3=1/3V _{OUT} Phase difference	20	22		deg
Hue Changeable width 2	T3	2	1		2	S3=1/3 VOUT Phase difference		-22	-20	deg
Tint Changeable width 1	GC	2	2		2	Gain (S3=3)-Gain (S3=1)	-0.6	0	0.6	dB
Tint Changeable width 2	GB	2	2		3	Gain (S3=3)-Gain (S3=1)	4.5	5.5	-	dB
Tint Changeable width 3	ТΙ	2	2		1	Gain (S3=3)-Gain (S3=1)			-20	dB
Hue Offset Adjustment width 1	OSTH	3	2		2	$S3=1/3 V_{OUT}$			-3.5	deg
Hue Offset Adjustment width 2	OSTL	1	2		2	S3=1/3 V _{OUT}	3.5	-	—	deg
BGP Threashold Voltage 1	VTHH	2	2	3	2	Switch on level	2.2		5.0	v
BGP Threashold Voltage 2	VTHL	2	2	3	2	Switch off level	0		0.8	v
Secondary Distortion 1	HC	2	2	3	2	3.58MHz, 700mV _{P-P} Sine Wave	—	-37	-33	dB
Secondary Distortion 2	НВ	2	2	1	2	3.58MHz, 700mV _{P-P} Sine Wave		-37	-33	dB

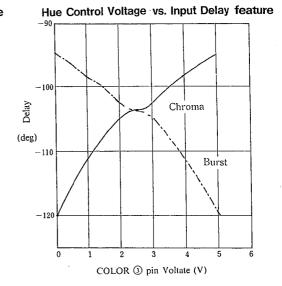
Note Unless otherwise specified, input signal is 3.58MHz and 300mV_P-P sine wave.

(V⁺=5V, Ta=25℃)

NJM2255

TYPICAL CHARACTERISTICS





vs. Chroma Gain Changeable

Color Control Voltage

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MEMO

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