

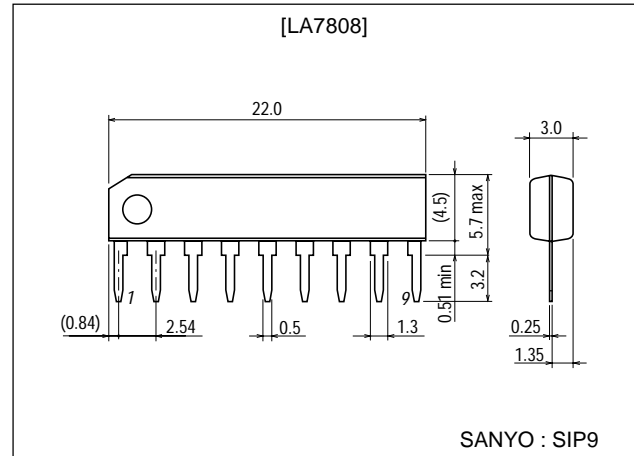
**LA7808****B/W TV Synchronization, Deflection Circuit****Overview**

The LA7808 contains a sync separator.

**Package Dimensions**

unit:mm

3017D-SIP9

**Specifications**

**Maximum Ratings** at  $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V1		14.0	V
	V7		14.0	V
Allowable power dissipation	Pd max	$T_a \leq 60^\circ\text{C}$	300	mW
Operating temperature	Topr		-20 to +85	$^\circ\text{C}$
Storage temperature	Tstg		-55 to +125	$^\circ\text{C}$

**Recommended Operating Conditions** at  $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage	V1		12.0	V
	V7		12.0	V

**Operating Characteristics** at  $T_a = 25^\circ\text{C}$ ,  $V_1 = V_7 = 12\text{V}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
$V_{CC1}$ current drain	$I_{CC1}$		6.0		11.0	mA
$V_{CC2}$ current drain	$I_{CC7}$		3.8		7.1	mA
Sync Separation input DC level			9.0		9.6	V
Sync signal peak value			11.0			V

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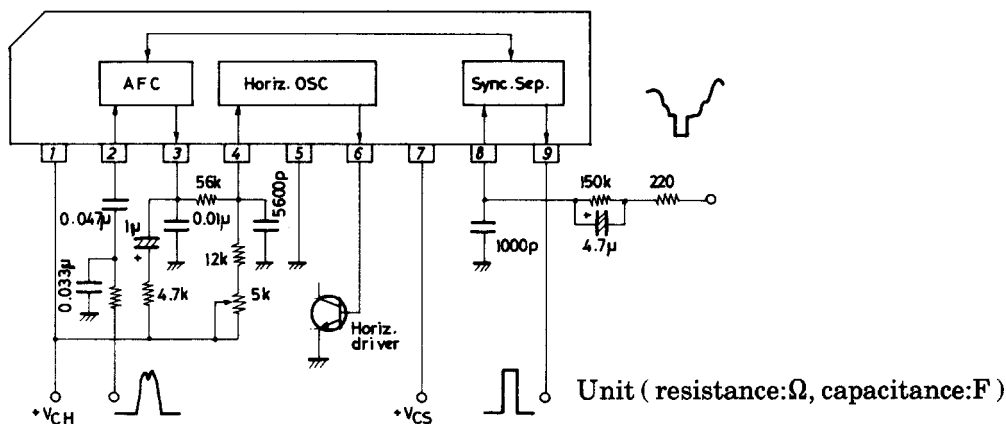
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# LA7808

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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Horizontal DC loop gain		+sign at $v_2=5v$ , -sign at $v_2=1v$	$\pm 240$		$\pm 400$	$\mu A$
Horizontal free-running frequency	$f_H$	$f_H$ center= $15.750kHz$	-750		750	Hz
Horizontal oscillation start voltage					4.0	V
Increased/reduced voltage characteristic of horizontal frequency		$V1=12\pm 1V$ (15.750kHz at 12V)	-50		+50	Hz/V
Temperature characteristic of horizontal frequency		$T_a=-10$ to $+60^\circ C$	-2.20		+1.22	Hz/ $^\circ C$
Horizontal frequency warm-up drift		5s to 30min. after switch ON	-90		+50	Hz
Horizontal output pulse width		Positive pulse period	21.5		26.5	$\mu s$
Horizontal output drive current			4.2		7.8	mA

## Sample Application Circuit : Sync, Deflection Circuit



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