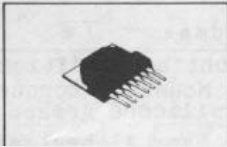




No.1776



# LA7830

Monolithic Linear IC  
**COLOR TV VERTICAL DEFLECTION OUTPUT CIRCUIT**

The LA7830 is a monolithic linear IC designed for small-aperture color TV vertical deflection output and has such features as greatly reduced number of external parts and low power dissipation. The LA7830 can be used in conjunction with **the** LA7620 series for video **chroma** deflection use and the **LA7800** series for deflection use and the LA7850 series for display use to form a stable and compact vertical output deflection circuit.

**Features**

- . High output
- . On-chip pump-up circuit and low power dissipation
- . Minimum number of external parts required

**Maximum Ratings at Ta=25°C**

			unit
Maximum Supply Voltage	$V_6$ max	30	V
	$V_3$ max	60	V
Deflection Output Current	$I_2$ max	±1.3	Ap-0
Allowable Power Dissipation	$Pd$ max	4.5	W
Operating Temperature	$T_{opg}$	-20 to +75	°C
Storage Temperature	$T_{stg}$	-40 to +125	°C

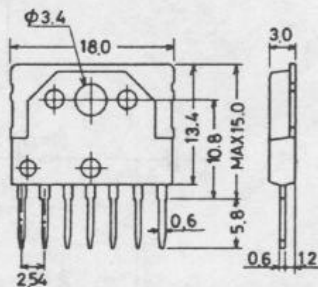
**Operating Conditions at Ta=25°C**

			unit
Recommended Supply Voltage	$V_6$	24	V
Operating Voltage Range	$V_6$	18 to 27	V
Deflection Output Current	$I_2$ p-p	up to 1.5	Ap-p

**Operating Characteristics at Ta=25°C,  $V_{CC}=24.0V$**

	min	typ	max	unit
Output Transistor Saturation Voltage (1)		0.5	1.0	V
Output Transistor Saturation Voltage (2)		1.8	2.6	V
Pin 7 Saturation Voltage (1)			1.5	V
Pin 7 Saturation Voltage (2)		0.8	1.6	V
Quiescent Current	8.0	11.5	24.0	mA
Middle-Point Voltage		11		V

**Case Outline 3050-S7IC**  
(unit:mm)

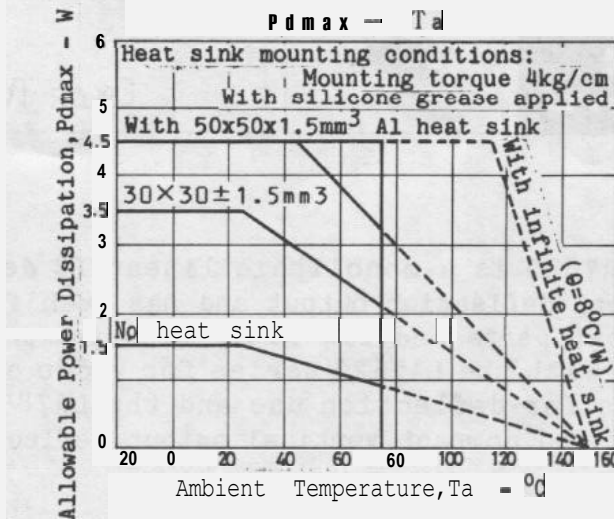
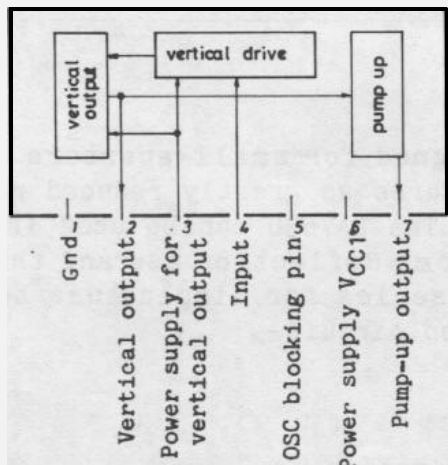


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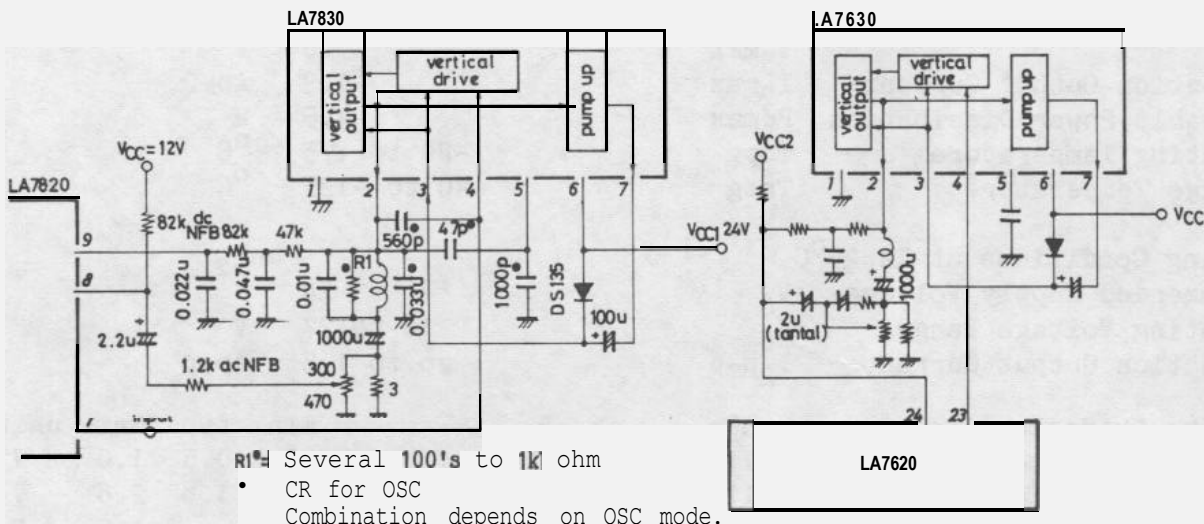
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Equivalent Circuit Block Diagram and Pin Assignment



Sample Application Circuit 1  
Vertical output of LA7820

Sample Application Circuit 2  
Vertical output of LA7620



Sample Application Circuit 3  
Vertical output of LA7850

