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_6max	30	V
	V_3max	60	V
Deflection Output Current	I_2max	±1.3	Ap-0
Allowable Power Dissipation	Pdmax	4.5	W
Operating Temperature	Topg	-20 to +75	°C
Storage Temperature	Tstg	-40 to +125	°C

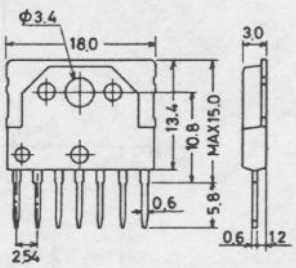
Operating Conditions at Ta=25°C

			unit
Recommended Supply Voltage	V_6	24	V
Operating Voltage Range	V_6	18 to 27	V
Deflection Output Current	I_2p-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 Outlline 3050-S7IC
(unit:mm)

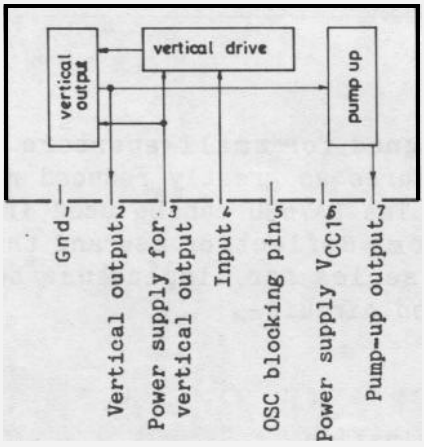


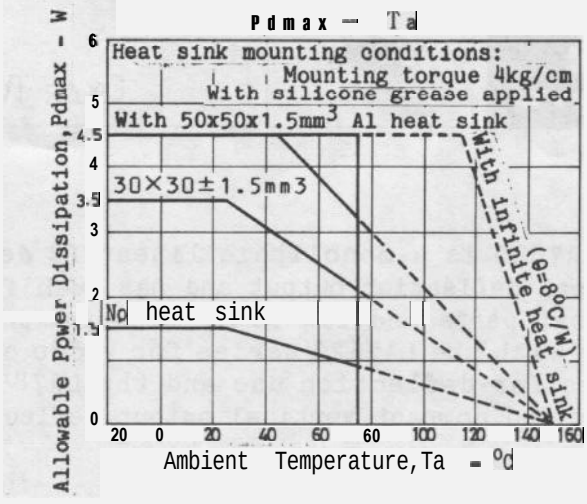
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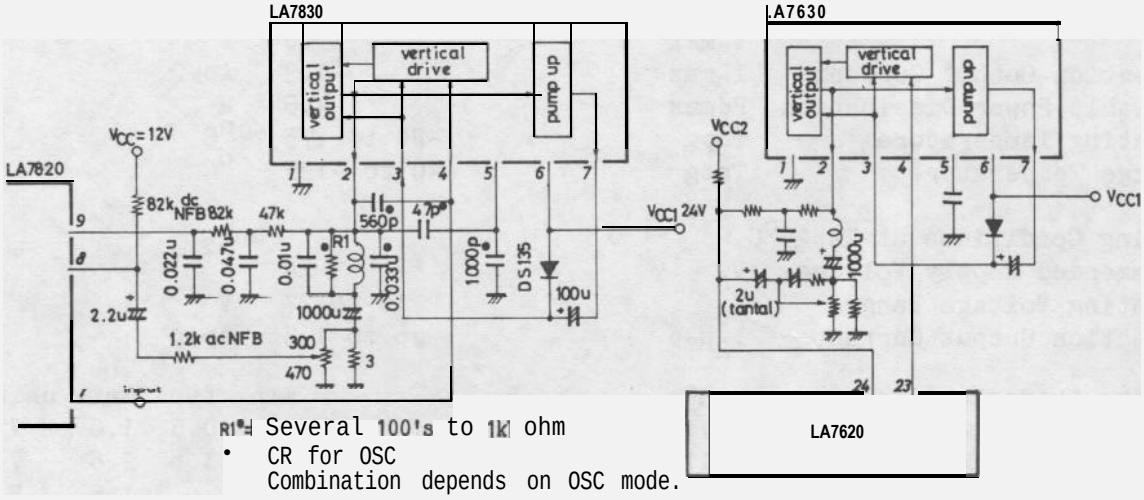
Equivalent Circuit Block Diagram and Pin Assignment





Sample Application Circuit 1
Vertical output of LA7820

Sample Application Circuit 2
Vertical output of LA7620



R1 : Several 100's to 1k ohm
• CR for OSC
Combination depends on OSC mode.

Sample Application Circuit 3
Vertical output of LA7850

