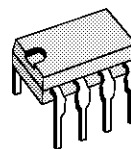


TV EAST/WEST CORRECTION CIRCUIT

- LOW DISSIPATION
- SQUARE GENERATOR FOR PARABOLIC CURRENT
- EXTERNAL KEYSTONE ADJUSTMENT (symmetry of the parabola)
- INPUT FOR DYNAMIC FIELD CORRECTION (beam current change)
- STATIC PICTURE WIDTH ADJUSTMENT
- PULSE-WIDTH MODULATOR
- FINAL STAGE D-CLASS WITH ENERGY RE-DELIVERY
- PARASITIC PARABOLA SUPPRESSION, DURING FLYBACK TIME OF THE VERTICAL SAWTOOTH



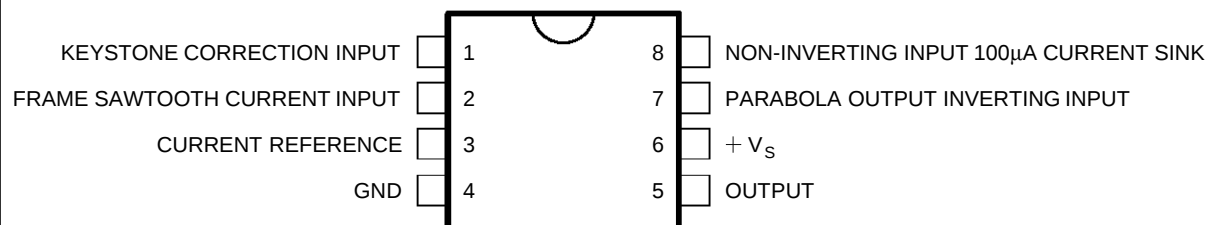
DIP8
(Plastic Package)

ORDER CODE : TDA4950

DESCRIPTION

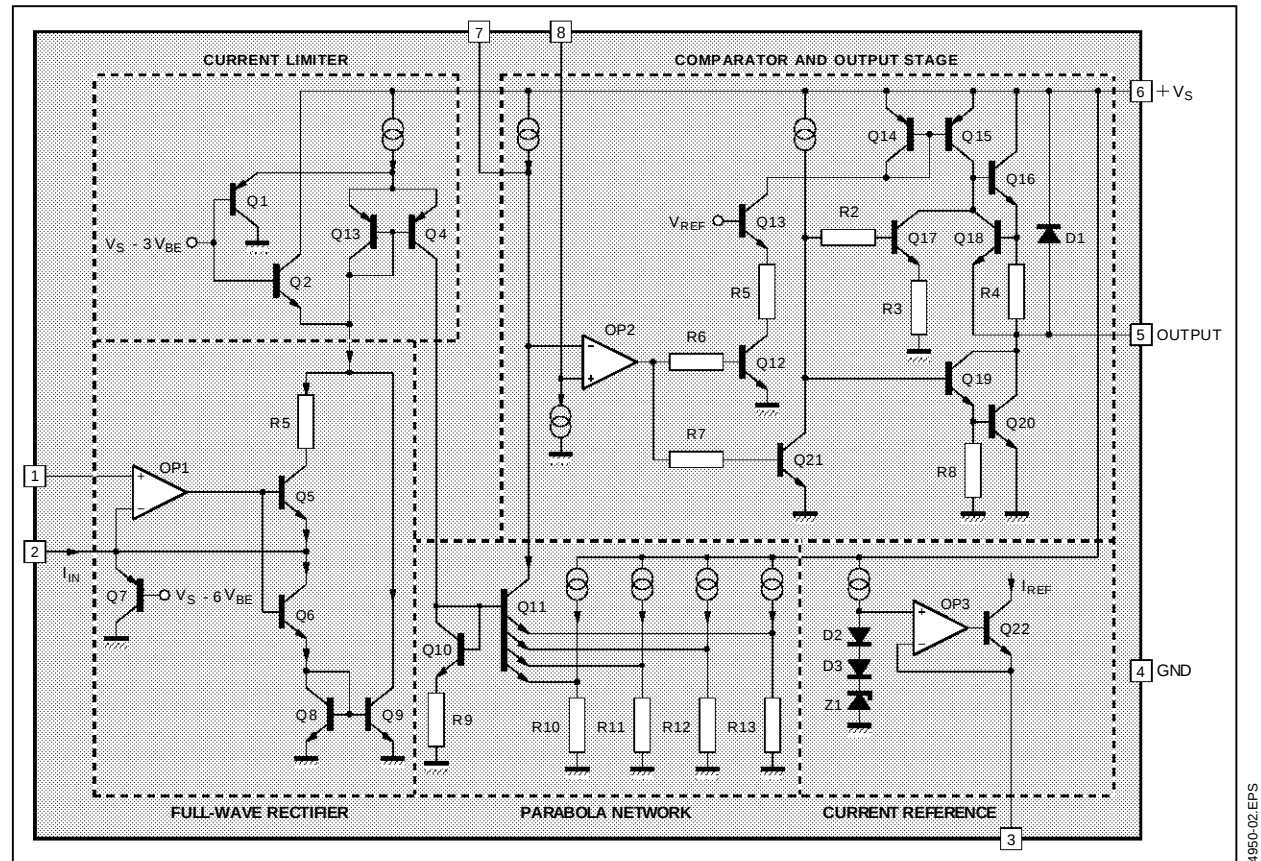
The TDA4950 is a monolithic integrated circuit in a 8 pin minidip plastic package designed for use in the east-west pin-cushion correction by driving a diode modulator in TV and monitor applications.

PIN CONNECTIONS



4950-01LEPS

BLOCK DIAGRAM



ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V_S	Supply Voltage	35	V
I_S	Supply Current	500	mA
P_{tot}	Power Dissipation at $T_{amb} = 70^\circ\text{C}$	800	mW
T_{stg}, T_j	Storage and Junction Temperature	- 25, +150	$^\circ\text{C}$

THERMAL DATA

Symbol	Parameter	Value	Unit
$R_{th(j-a)}$	Thermal Resistance Junction-ambient	100	$^\circ\text{C/W}$
$R_{th(j-c)}$	Thermal Resistance Junction-pin (4)	70	$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS ($T_{amb} = 25^\circ\text{C}$, $V_S = 26\text{ V}$, $V_{fr} = 0$, S1 and S2 in "a" position, refer to test circuit unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_S	Supply Voltage		17	24	30	V
I_S	Supply Current			4.5	7	mA
V_{ref}	Internal Reference Voltage		7.6	8.0	8.8	V
$-I_{ref}$	Internal Reference Current	$V_{ref}/R3$		0.73		mA
$V_{7(A)}$	Pin 7 Output Voltage	$I_{fr} = 0\text{ }\mu\text{A}$, see Figure 2	15.3	16.0	16.7	V
$V_{7(B)}$	Pin 7 Output Voltage	$I_{fr} = 30\text{ }\mu\text{A}$, see Figure 2		15		V

Figure 3 : Application Circuit with Keystone Correction

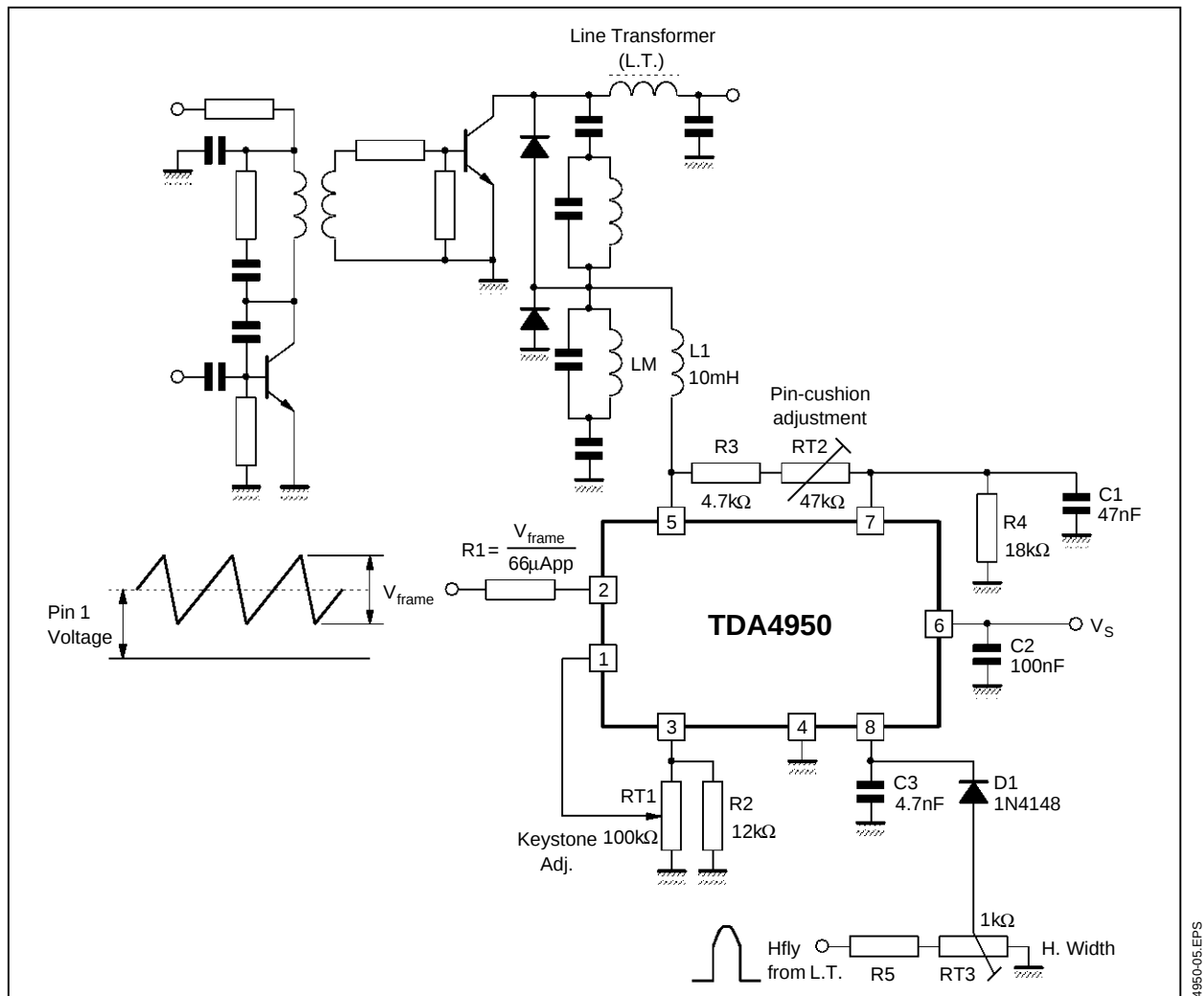
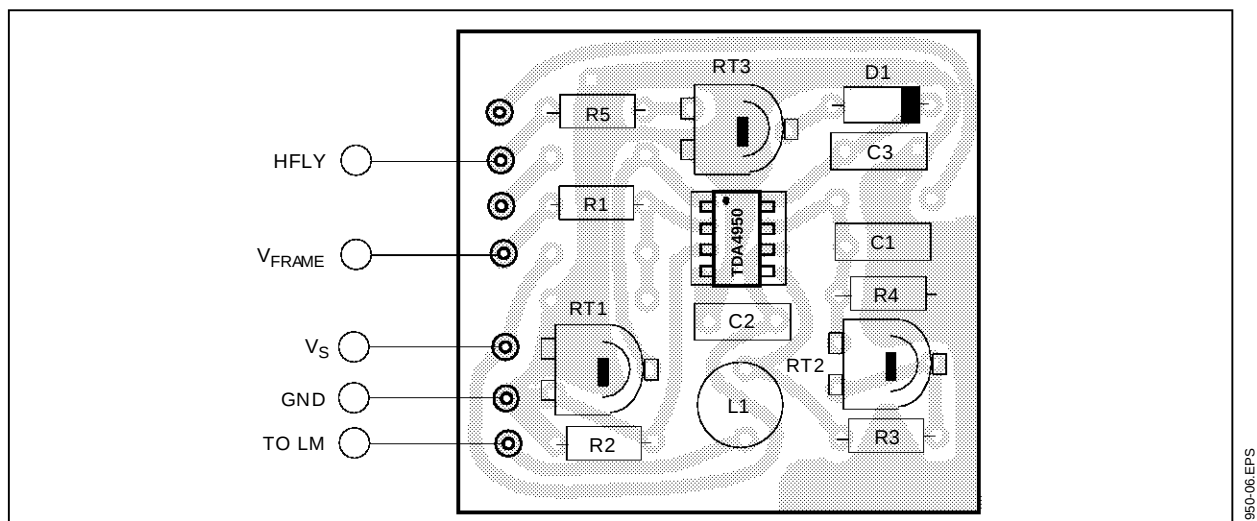
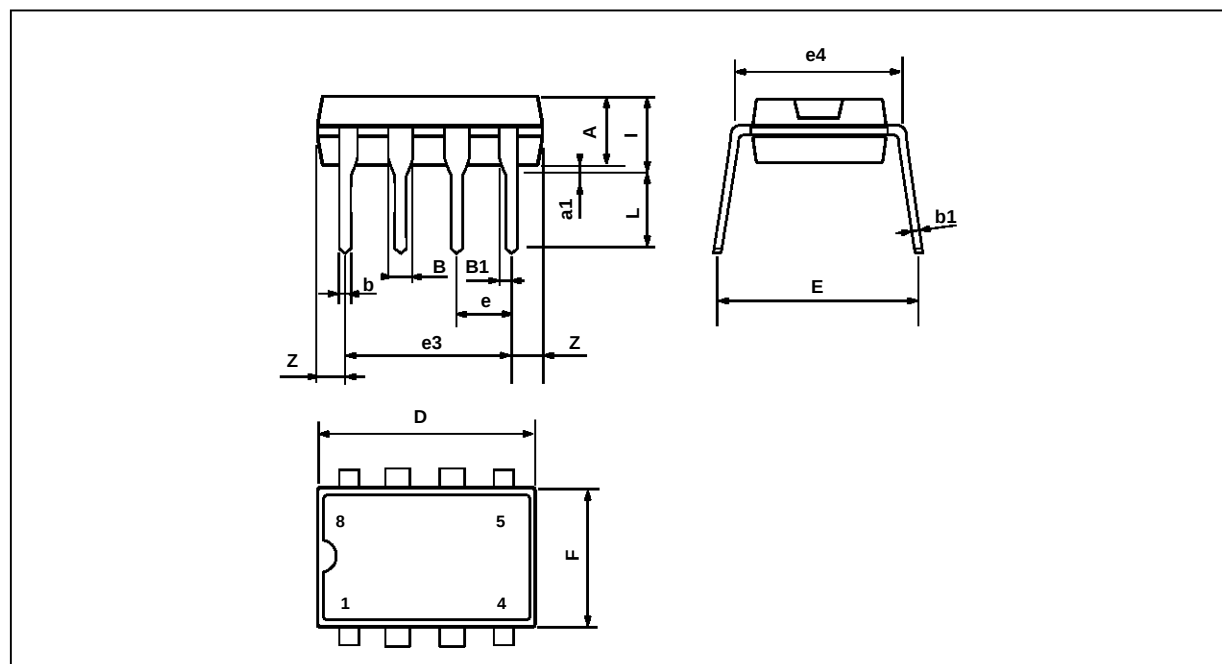


Figure 4 : P.C. Board and Component Layout of the Circuit of Figure 3 (1:1 scale)



PACKAGE MECHANICAL DATA

8 PINS - PLASTIC DIP



PM-DIP8.EPS

Dimensions	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A		3.32			0.131	
a1	0.51			0.020		
B	1.15		1.65	0.045		0.065
b	0.356		0.55	0.014		0.022
b1	0.204		0.304	0.008		0.012
D			10.92			0.430
E	7.95		9.75	0.313		0.384
e		2.54			0.100	
e3		7.62			0.300	
e4		7.62			0.300	
F			6.6			0.260
i			5.08			0.200
L	3.18		3.81	0.125		0.150
Z			1.52			0.060

DIP8.TBL

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