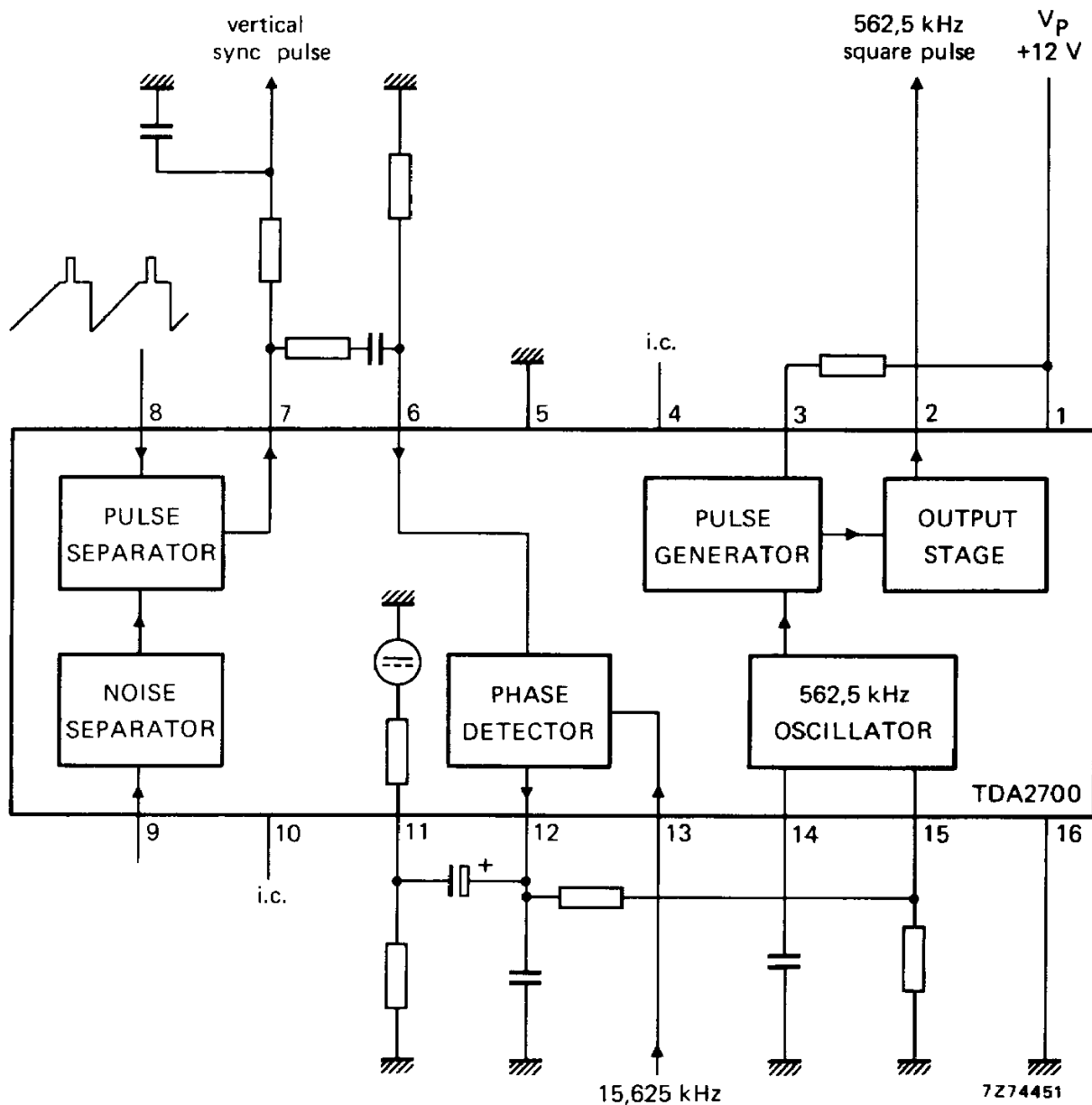


OSCILLATOR FOR VIDEO RECORDERS

The TDA2700 is a monolithic integrated circuit for video recorders incorporating the following functions :

- 562,5 kHz oscillator
- pulse separator
- noise separator
- phase detector
- pulse generator
- low-ohmic output stage



PACKAGE OUTLINE 16-lead DIL; plastic (SOT-38).

RATINGS Limiting values in accordance with the Absolute Maximum System (IEC 134)

Voltages

Supply voltage	V_{1-16}	max.	13,2	V
Pin 3	V_{3-16}		0 to V_{1-16}	V
Pin 8	$-V_{8-16}$	max.	12	V

Currents

Pin 2 (average value)	$-I_{2(AV)}$	max.	20	mA
(peak value)	$-I_{2M}$	max.	200	mA
Pin 6 (peak value)	$\pm I_{6M}$	max.	10	mA
Pin 7 (peak value)	$-I_{7M}$	max.	10	mA
Pin 8 (peak value)	I_{8M}	max.	10	mA
Pin 9 (peak value)	$\pm I_{9M}$	max.	10	mA

Power dissipation

Total power dissipation	P_{tot}	max.	600	mW
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Temperatures

Storage temperature	T_{stg}	-25 to +125	°C
Operating ambient temperature	T_{amb}	-20 to +60	°C

CHARACTERISTICS at $V_{1-16} = 12$ V; $T_{amb} = 25$ °C; measured in circuit on page 4

Inputs

Supply

Supply current at $I_2 = 0$	I_1	typ.	36	mA
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Sync pulse separator

Negative video input signal (peak-to-peak value)	$V_{8-16(p-p)}$	typ.	3	V
			1 to 7	V
Input current (peak value)	I_{8M}	\geq	10	μ A
Input leakage current at $V_{8-16} = -3$ V	$-I_8$	\leq	1	μ A

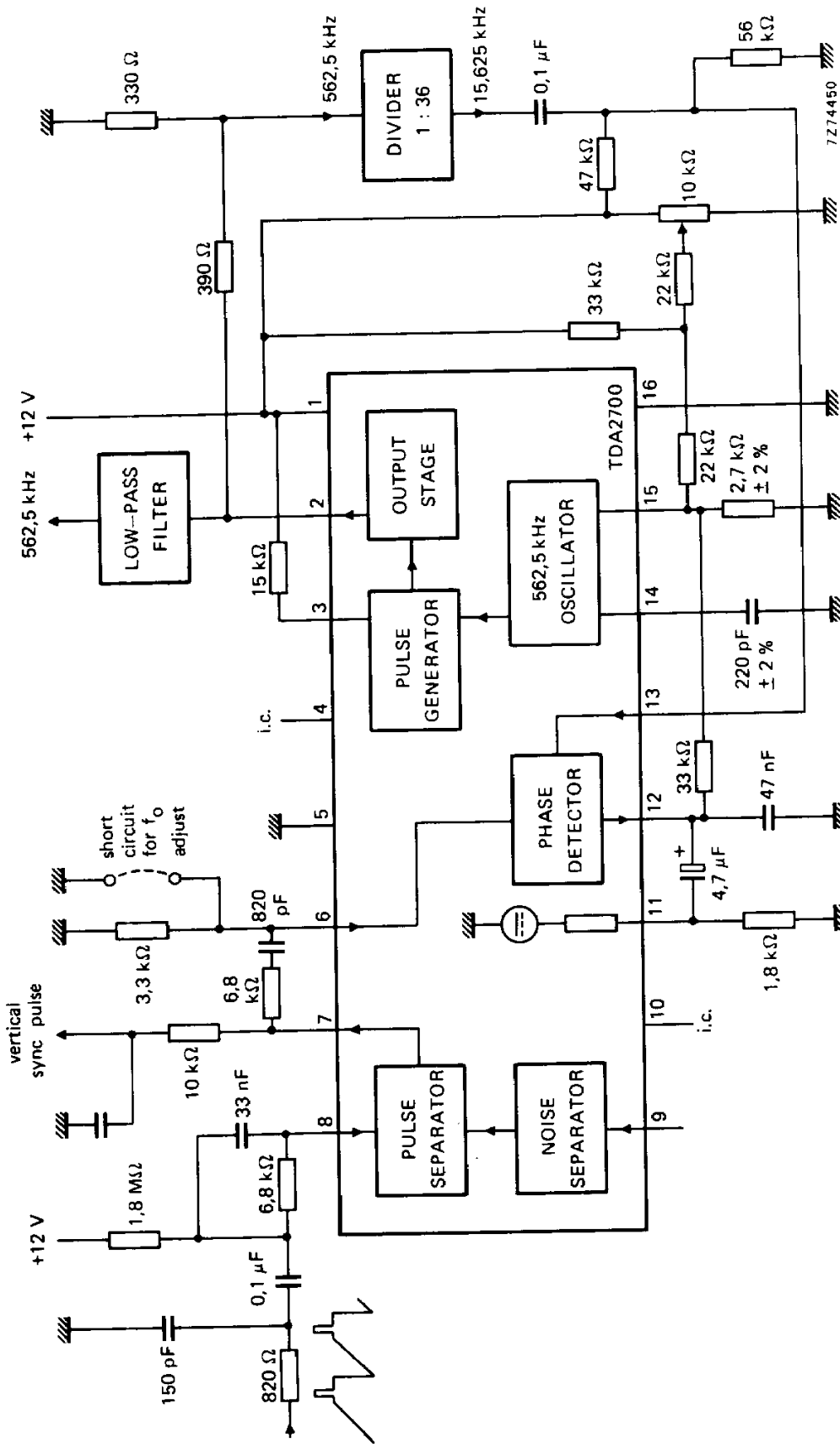
Noise separator

Input voltage	V_{9-16}	typ.	0,7	V
Input current range	I_9		0,03 to 10	μ A
Input resistance	R_{9-16}	typ.	200	Ω

TDA2700



APPLICATION INFORMATION



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