

STK392-110

Specifications

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

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	$V_{CC\text{ max}}$		± 38	V
Maximum collector current	I_C	Tr6, 7, 13, 14, 20, 21	3.0	A
Thermal resistance	θ_{j-c}	Tr6, 7, 13, 14, 20, 21 (per transistor)	3.0	$^\circ\text{C/W}$
Junction temperature	T_J		150	$^\circ\text{C}$
Operating temperature	T_c		125	$^\circ\text{C}$
Storage temperature	T_{stg}		-30 to +125	$^\circ\text{C}$

Operating Characteristics at $T_a = 25^\circ\text{C}$, $R_g = 50\Omega$, $V_{CC} = \pm 30\text{V}$, specified test circuit

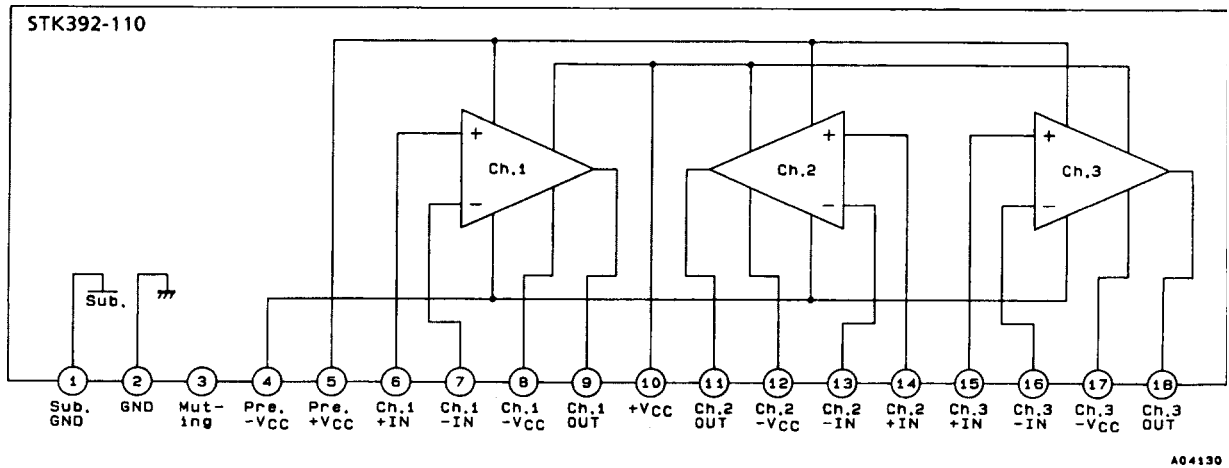
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Output noise voltage	V_{NO}				0.2	mVrms
Quiescent current	I_{CCO}		15	22	30	mA
Neutral voltage	V_N		-50	0	+50	mV
Output delay time	t_D	$f = 15.75\text{kHz}$, triangular wave input, $V_{OUT} = 1.5\text{Vp-p}$			1	μs

Note :

All tests are conducted using a constant-voltage regulated supply unless otherwise specified.

The output noise voltage is the peak value of an average-reading meter with an rms value scale (VTVM).

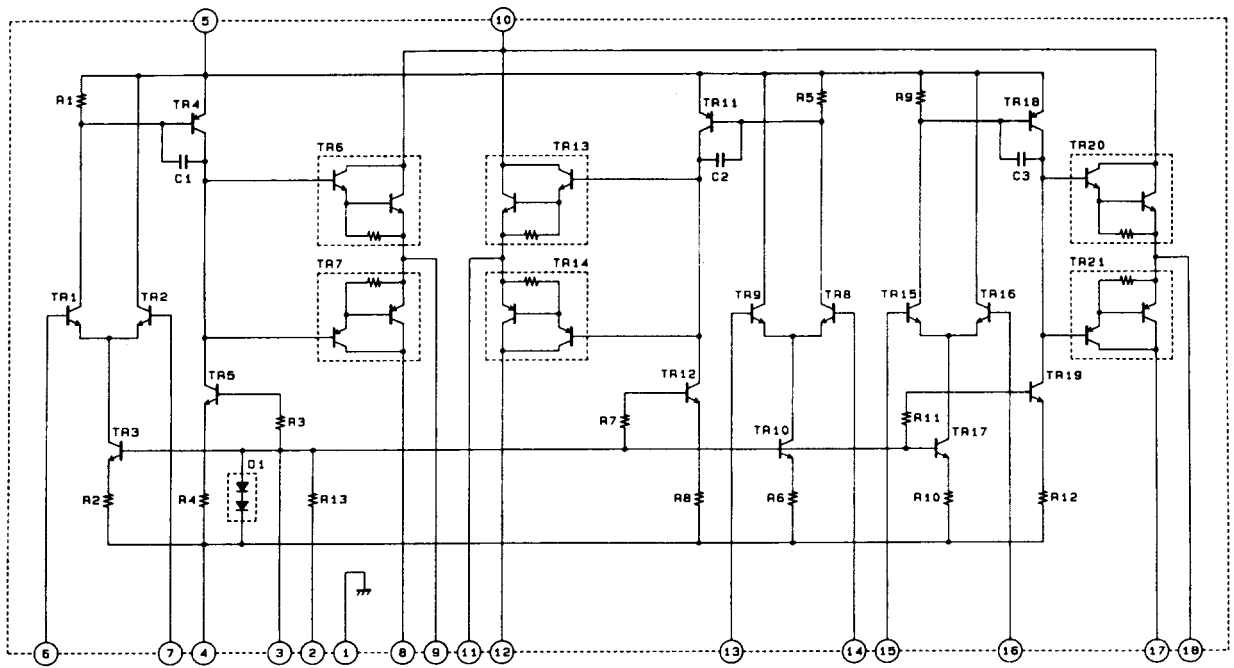
Block Diagram



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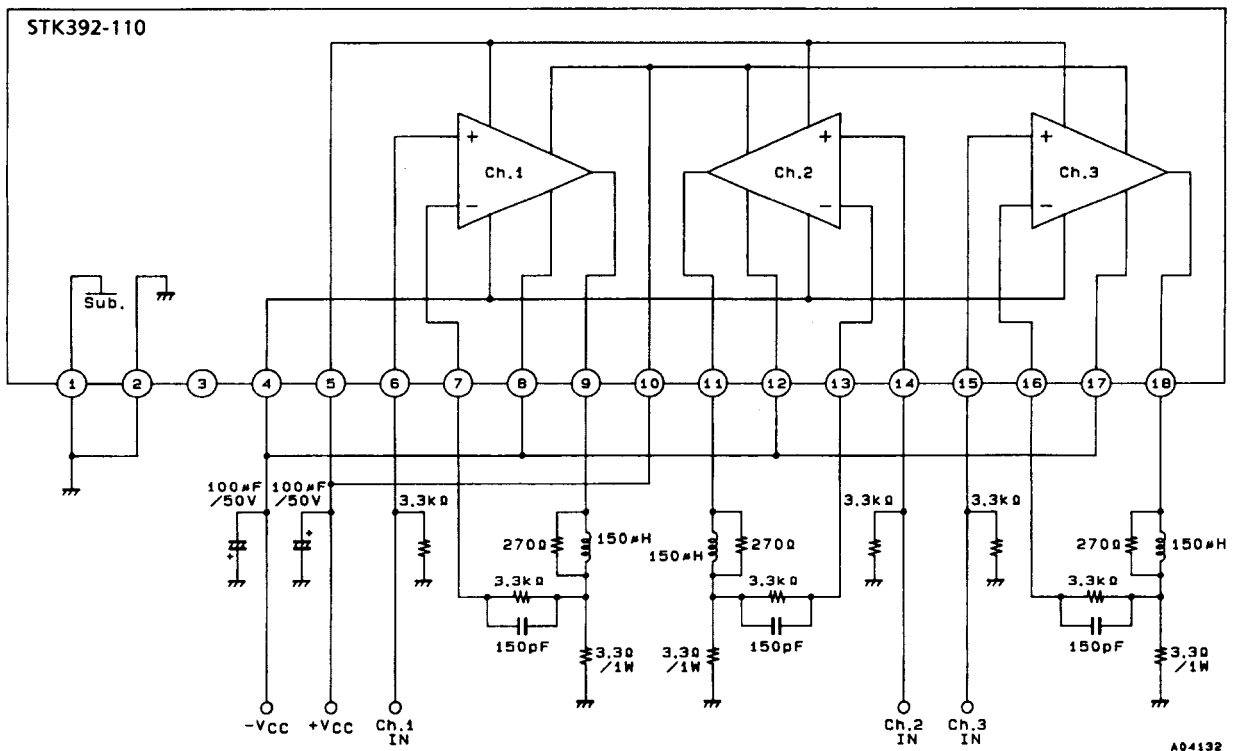
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Equivalent Circuit



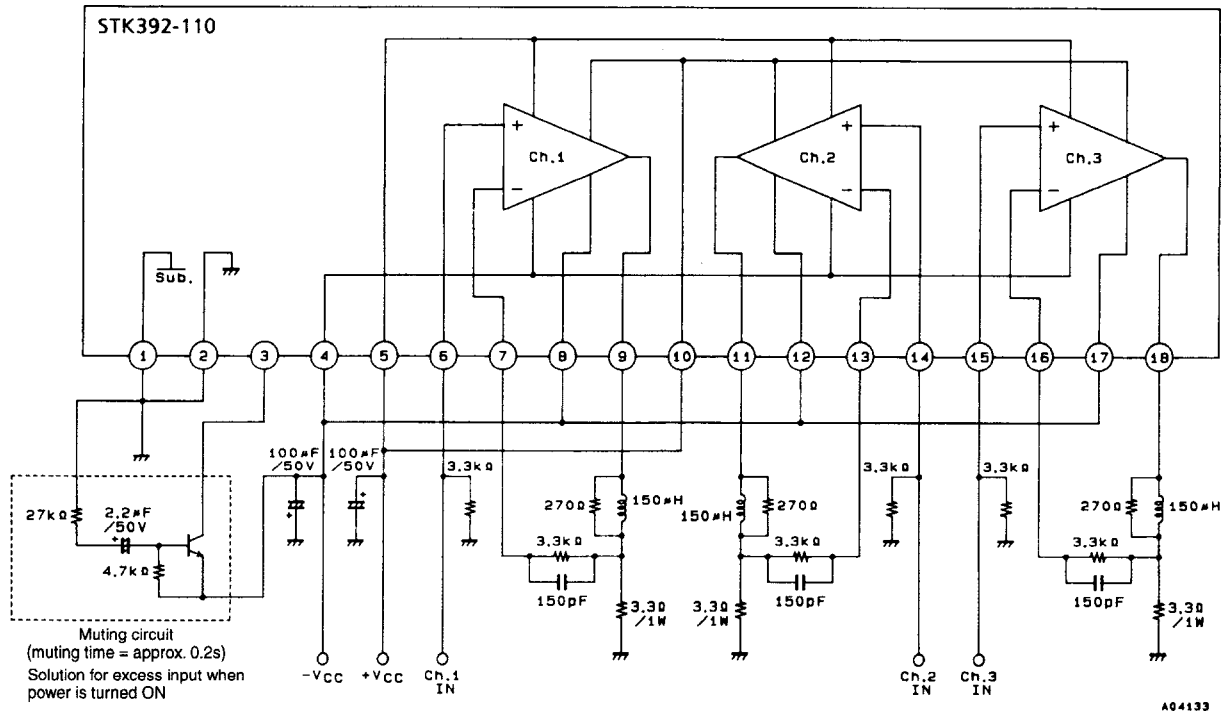
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Test Circuit



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Sample Application Circuit



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