

STK392-110

Specifications

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

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	$V_{CC\ max}$		± 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 substrate 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

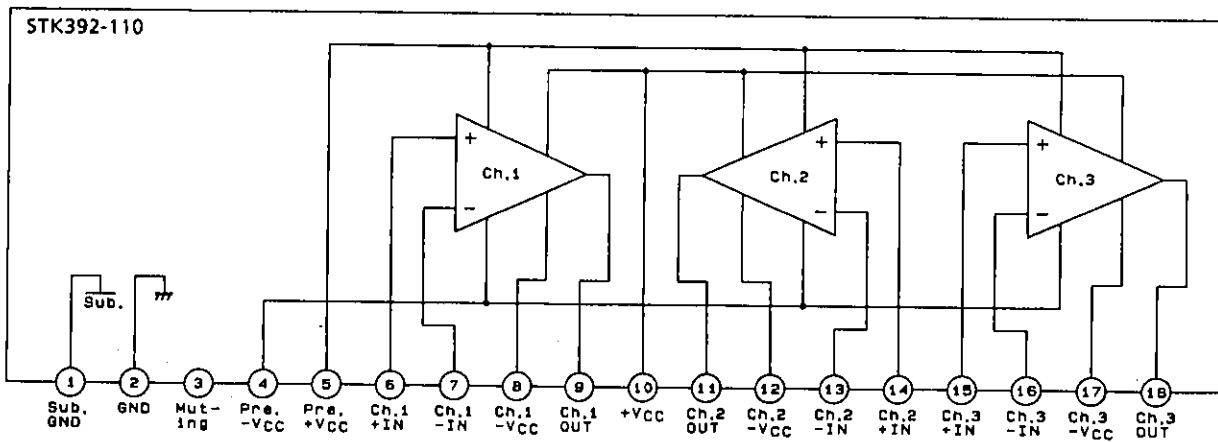
Parameter	Symbol	Conditions	min	typ	max	Unit
Output noise voltage	V_{NO}		-	-	0.2	mVrms
Quiescent current	I_{CCO}		15	22	30	mA
Neutral voltage	V_N		-50	0	+50	mV
Output delay time	t_d	$f = 15.75\text{kHz}$, triangular wave input, $V_{OUT} = 1.5\text{Vp-p}$	-	-	1	μs

Notes.

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

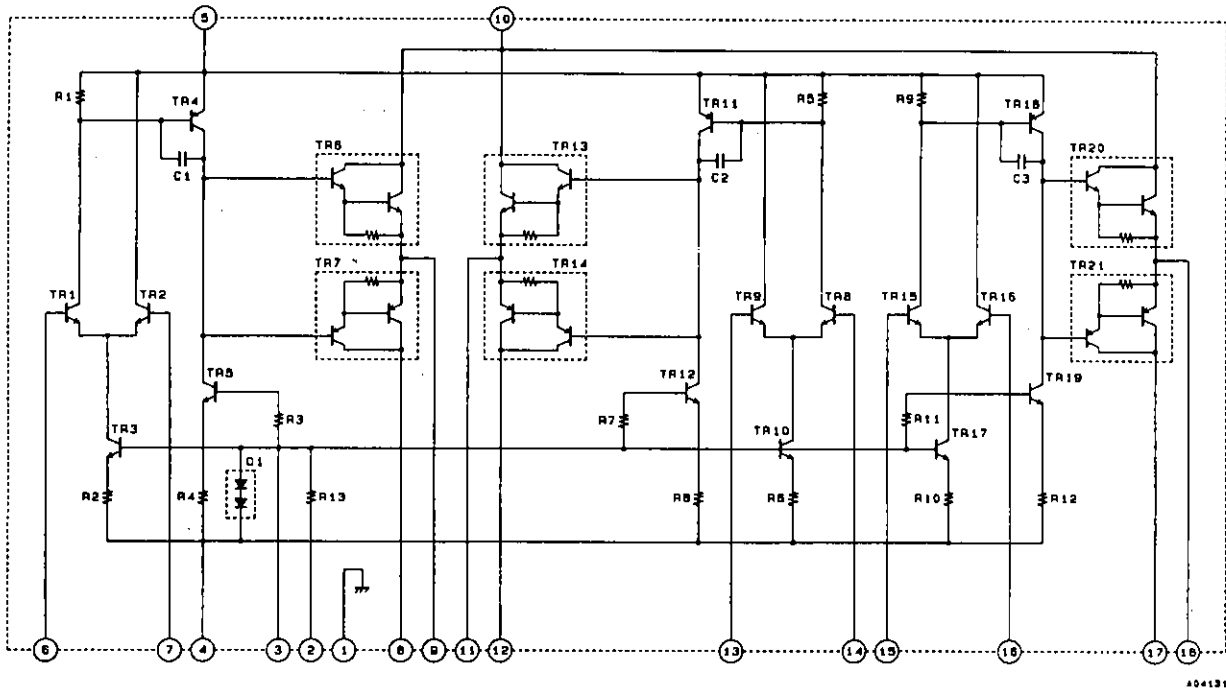
The output noise voltage is the peak value of an average-reading meter with an rms value scale (VTVM).

Block Diagram



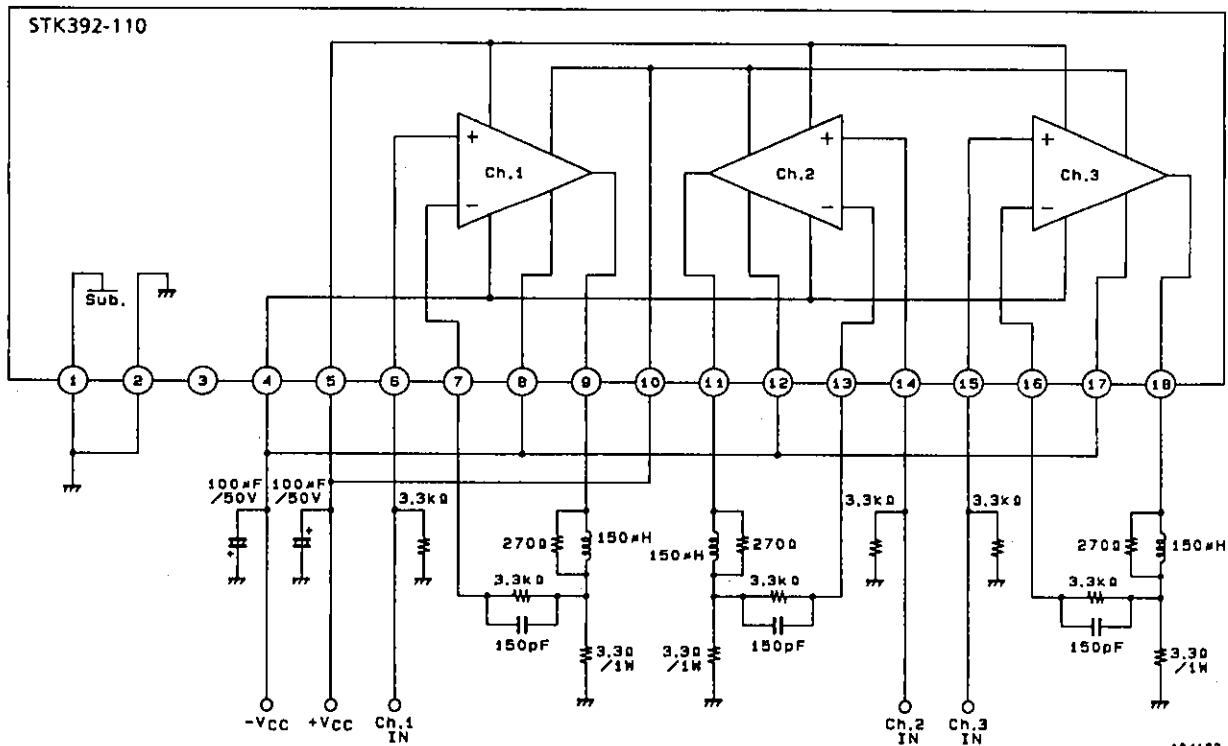
STK392-110

Equivalent Circuit



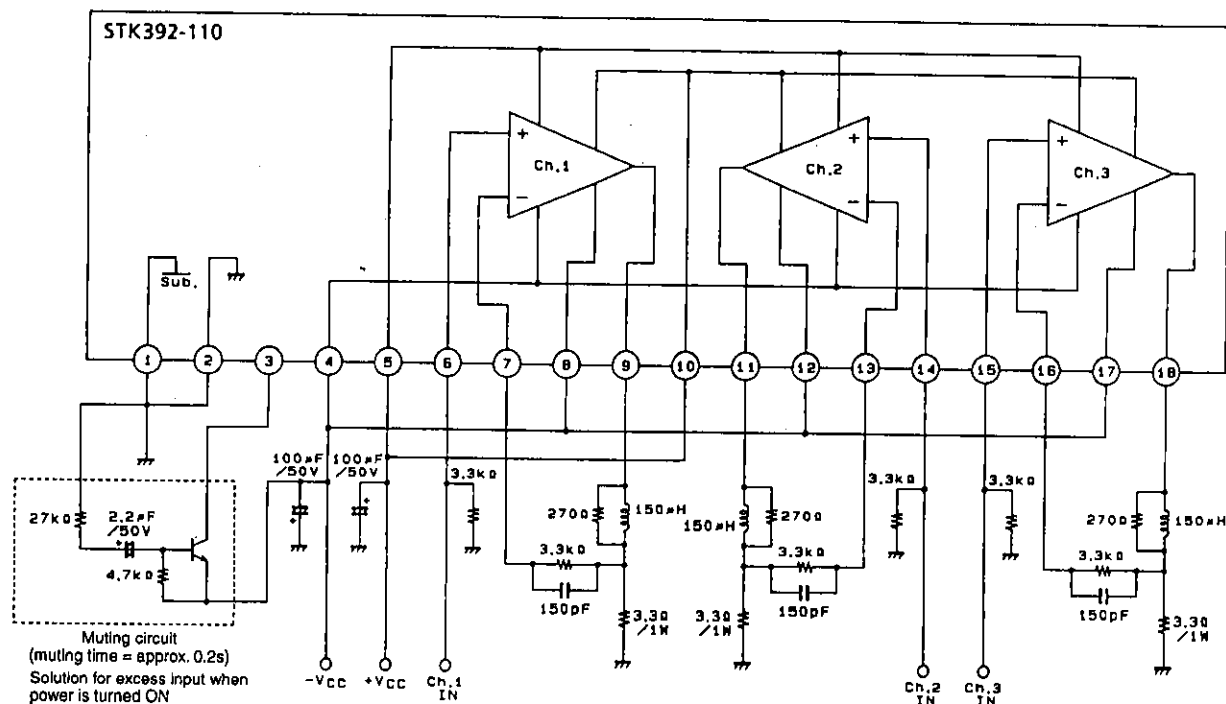
A04131

Test Circuit



A04132

Sample Application Circuit



404133

■ No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.

■ Anyone purchasing any products described or contained herein for an above-mentioned use shall:

- ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
- ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees, jointly or severally.

■ Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.