

STK0025...STR-Z4369

audio
video
power supply
linear
digital
analog



STK and STR

STK0025...STR-Z4369

**integrated STK/STR
hybrid circuits**

**comparison table
data book
vergleichstabelle
datenbuch**



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STK and STR

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Vorwort

Ihren guten Parametern und ihrer hohen Zuverlässigkeit verdanken die Hybrid-IC-Familien STK (Sanyo) und STR (Sanken) die große Popularität in den Bereichen Consumer- und Professional-Electronic.

Die IC-Familie STK umfasst integrierte Schaltungen für folgenden Funktionen ...

- Audio-Leistungsverstärker,
- Audio-Vorverstärker,
- Graphische Equalizer,
- Lineare Netzteile und Schaltnetzteile,
- Prozessoren für Ablenkungssteuerung,
- Fokus- und Konvergenz-Steuerung für Monitore und TV,
- Motortreiber und viele andere.

Die Sanken STR Familie beinhaltet ...

- Schaltspannungsregler und
- lineare Spannungsregler

entwickelt für den Einsatz in primären oder sekundären Schaltnetzteilen von Videorekordern oder TV-Geräten.

Informationen bzw. Daten über STK und STR ICs sind selbst über das Internet manchmal ausgesprochen schwierig zu finden. Erhält man dann Datenblätter, sind sie leider auch oft unvollständig.

Diese Buch enthält eine kurze, aber vollständige, Zusammenfassung der aktuellen STK- und STR-Typen. Ähnliche Typen mit gleicher Anschlußbelegung haben wir zu Blöcken zusammengefasst. Am Anfang eines jeden dieser Blöcke findet man Gehäusezeichnungen, eine Schaltungszeichnung und eine Kurzbeschreibung, gefolgt von einer Tabelle mit den wichtigsten technischen Daten. Man kann sie nicht als Vergleichstypen füreinander verwenden, da sie unterschiedliche Gehäuse oder Daten haben können. Um exakte Vergleichstypen zu finden, benötigen sie die dazugehörigen Original-Datenblätter.

Sie können höhere Lastwiderstände, als in den Beschreibungen zu den Verstärkern angegeben, verwenden. Dadurch verringert sich aber die Ausgangsleistung.

Sanyo's IMST Substrat-Technik benutzt eine Aluminiumplatte als Basis. Die Aluminiumgrundplatte wird beidseitig als Träger verwandt. Die hohe Temperaturleitfähigkeit von Aluminium ist die Ursache für die außerordentlich gute Wärmeableitung derartiger Hybrid-ICs.

Ersatztypen

Von drei Firmen gibt es eine Vielzahl von, zu den STK- und STR-ICs, pinkompatiblen Ersatztypen. Deren Bezeichnung stimmt aber meist nicht mit den Originaltypen von Sanken und Sanyo überein.

Daher haben wir für Sie eine Liste mit den Vergleichstypen erstellt. Sie finden sie in der Sektion 3.

Die drei Hersteller sind/waren ...

- ECG Microsemi, die Typenbezeichnung beginnt mit ECG
- NTE Electronis Inc., die Typenbezeichnung beginnt mit NTE
- TCE Thomson Consumer Electronics, die Typenbezeichnung beginnt mit SK.

Kontaktinformationen zu den verschiedenen Herstellern finden Sie auf Seite XII direkt vor den IC-Beschreibungen.

Audio Amplifier Datenbuch

Ein neues Datenbuch über die gebräuchlichsten integrierten Audio Verstärker Schaltungen!

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- * Von A205P bis μ PC 2500H
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- * Applikation
- * Herstellerangabe
- * Vergleichstypen sofern möglich
- * Gehäuseformen
- * Funktionelles Inhaltsverzeichnis
- * Alle wichtigen elektrischen Werte in einer Tabelle

Audio Amp ISBN 3-937469-18-4, Bestell-Nr. 115

Musterseiten auf unserer Homepage im Internet unter <http://www.demo.eca.de>



Audio amplifier data book

A new data book about integrated audio amplifier circuits.

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- * From A205P to μ PC2500H
- * Schematic of connection
- * Application
- * Manufacturers
- * Replacements if available
- * Case outline drawings
- * Functional index
- * Table of characteristics with all common parameters in a table.

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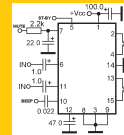
Sample sites on www.trial.eca.de



Audio Amp

A205P... μ PC2500H

**integrated Audio
Amplifier circuits**



**Vergleichstabelle
Datenbuch
Pinout
Äquivalenz
data book**



Introduction

Due to their good parameters and high reliability, the Hybrid-ICs of Sanyo STK and Sanken STR family are very popular in consumer and professional electronic equipments.

The functional set of STK integrated circuits contains ...

- power audio amplifiers,
- audio preamplifiers,
- graphic equalizers,
- switching and linear type voltage regulators,
- deflection processors,
- focus and convergence drivers for monitors and TV,
- motor drivers and many others.

The Sanken STR family consists

- linear and
- switching voltage regulators,

intended for applying in TV and videorecorder primary and secondary power supplies. Informations resp. datas about STK and STR ICs are very hard to get even via Internet and most of them are incomplete.

This book offers a short but full summary of most STK and STR integrated circuits. Similar types of devices with equivalent pinout are arranged in blocks starting with case drawings, schematic diagram and also a short description followed by the most relevant technical datas. They are not specifically replacements with each other. May be they have different electrical characteristics or cases. For detection of equivalents in any case it is necessary to consult a complete datasheet.

Using higher value loads, than specified in amplifiers datasheets, proportionally decreases output power.

Sanyo's IMST (Insulated Metal Substrate Technology) substrate uses an aluminum plate as the base. Manufacturing processes are applied to both sides of the aluminum base plate. Aluminum's high thermal conductivity allows devices with superlative heat sinking capacity to be created.

Replacements

Not less than three manufacturers produce a plenty of ICs, which are the complete pin-to-pin replacements compatible with STK and STR family circuits. But their order/marketing codes do not agree with the STK or STR order/marketing codes.

Therefore we created a replacement list for you. You can find it in section 3.

The manufacturers are/were

- ECG Microsemi, marking their circuits with ECG prefixes
- NTE Electronis Inc., marking their circuits with NTE prefixes
- TCE Thomson Consumer Electronics, marking their circuits with SK prefixes.

Page XII, straight before IC description section 1, contains all contact informations and logos.

Abbreviations used in characteristic tables and schematic diagrams:

Abkürzungen in Datentabellen und Zeichnungen:

μ COM	-	Microcomputer	
AC	-	Alternate Current	Wechselstrom
Adj	-	Adjust, adjustable	Einstellung, einstellbar
B	-	Bias	
BPF	-	Bandpass filter	
Bw	-	Bandwith	Bandbreite
CLK	-	Clock	Takt
CRT	-	Cathode Ray Tube	Kathodenstrahlröhre
CTRL	-	Control	Steuerung
Curr.	-	Current	Strom
DC	-	Direct Current	Gleichstrom
Det.	-	Detector	
DRV	-	Driver	Treiber
D.Y.	-	Deflection yoke	Ablenkeinheit
EMI	-	Electro Magnetic Interference	elektromagnetische Störung
FDBK	-	Feedback	Rückkopplung
Fosc	-	Oscillation frequency	Oszillatorfrequenz
GND	-	Ground	Masse
Gv	-	Voltage gain	Spannungsverstärkung
HL	-	High Level (Logic)	
I _d	-	Drain Current	Drainstrom
ID	-	Identificator	
I _{cc0}	-	Quiesc. power supply current	Ruhestrom
I _{outmax}	-	Max. output current	Max. Ausgangsstrom
INH	-	Inhibit	Sperre
LL	-	Low Level (Logic)	
MON	-	Monitor	
NFB	-	Negative feedback	
OC	-	Oscillator Control	Oszillatorsteuerung
OCP	-	Over-Current Protection	Überstrom-Schutzschaltung
Osc.	-	Oscillator	
Out	-	Output	Ausgang
OVP	-	Over-Voltage Protection	Überspannungs-Schutzschaltung
P _{outmax}	-	Max. output power	Max. Ausgangsleistung
PRC	-	Pulse Ratio Control	Pulsbreitenmodulation
R,G,B	-	Red, Green, Blue	Rot, Grün, Blau
RBDS	-	Radio Broadcast Data System	RDS, Radio-Datenübertragungs-System
rDS	-	On-State Resistance	Durchlaßwiderstand
RDS	-	Radio Data System	RDS, Radio-Datenübertragungs-System
Ref.	-	Reference (Voltage)	
Reg.	-	Regulator	Regler
Rect.	-	Rectifier	Gleichrichter
R _{lnom}	-	Nominal load impedance	nom. Lastwiderstand
R _{in}	-	Input impedance	Eingangsimpedanz
SIL	-	single in-line	Anschlußpins in einer Reihe
Sync.	-	Synchronization	
SMPS	-	Switch mode power supply	Schaltnetzteil
Sw	-	Switch	Umschalter
THD	-	Total harmonic distorsion	
TSD	-	Time Set During	
V _{ccmin}	-	Min. supply voltage	Min. Versorgungsspannung
V _{ccmax}	-	Max. supply voltage	Max. Versorgungsspannung
VCR	-	Video cassette recorder	Videokassettenrekorder
VTR	-	Video tape recorder	Videokassettenrekorder
V _{ds}	-	Drain-Source voltage	Drain-Source Spannung
UVLO	-	Under-Voltage lockout	Unterspannungs-Abschaltung

Manufacturers

Logos, contact and web-adresses of the manufacturers

Hersteller

Logos, Kontakt und Internetadressen der Hersteller



**ECG
Semi**

Ecg - E C G

In January 2001 NTE acquired the assets of the ECG division of Philips N.A.

<http://www.ecgproducts.com>



NTE

Nte - NTE Electronics Inc.

44 Farrand Street, Bloomfield, NJ 07003, USA, Phone: 973-748-5089

<http://www.nteinc.com>



SanKen

Sak - Sanken Electric

1-11-1 Nishi-Ikebukuro, Toshima-ku, Tokyo, Japan, Phone: 81-3-3986-6151

<http://www.sanken-ele.co.jp>



SANYO

San - Sanyo Electric Co.Ltd

5-5, Keihan-hondori 2-chome, Moriguchi City, Osaka, Japan

<http://www.sanyo.co.jp>



SK

Tce - Thomson Consumer Electronics

(There is no accessible padding information)

Descriptions

Applications, features, pin-outs of all types

Beschreibungen

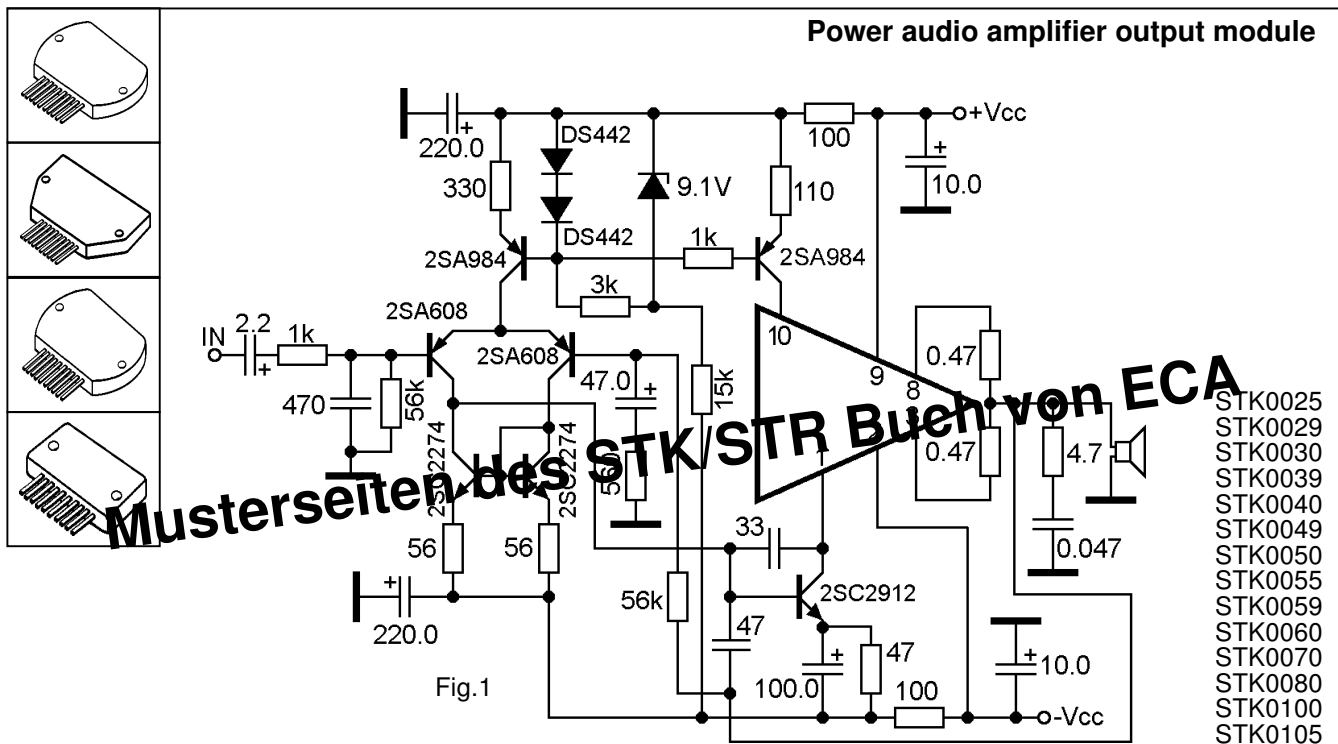
Schaltungen, Eigenschaften und Anschlußbelegungen aller Typen

Erläuterung zum Tabellenaufbau

<u>Spalte</u>	<u>Erklärung</u>
Type	Typenbezeichnung des jeweiligen Bauteils
Case	Gehäuseform, siehe Sektion 4
U_{cc_min}	Minimale Versorgungsspannung
U_{cc_max}	Maximale Versorgungsspannung
P_{out_max}	Maximale Ausgangsleistung
R_l	Lastwiderstand
I_{cc_0}	Minimale Stromaufnahme
I_{out_max}	Maximaler Ausgangsstrom
B_w	Bandbreite
R_{in}	Eingangswiderstand
R_{nom}	Ausgangslastwiderstand
THD	“Total Harmonic Distortion”
G_v	Spannungsverstärkung,
U_{out}	Ausgangsspannung
P_d	Ausgangsleistung
VCO_f	VCO free-run Frequenz
VG_{BPF}	Band-pass Verstärkung
F_{OSC}	Oszillatorfrequenz
t_{on}/t_{off}	Ein-/ Ausschaltzeit

Explanation concerning the table

<u>Column</u>	<u>Explanation</u>
Type	Type name
Case	Case, see “section 4”
U_{cc_min}	Minimal supply voltage
U_{cc_max}	Maximal supply voltage
P_{out_max}	Maximal output power
R_l	Load resistance
I_{cc_0}	Minimal circuit current
I_{out_max}	Maximal output current
B_w	Bandwidth, see “Introduction”
R_{in}	Input resistance
THD	Total Harmonic Distortion, see “Introduction”
G_v	Gain, see “Introduction”
U_{out}	Output voltage
P_d	Output power
VCO_f	VCO free-run frequency
VG_{BPF}	Band-pass filtergain
F_{OSC}	Oscillator frequency
t_{on}/t_{off}	Turn-on/ -off time



The **STK00x series** ICs are power audio amplifier output modules (current amplifiers).

Applications:

- HiFi home audio stereo systems

Features:

- pin-to-pin compatible types in various cases with variable electrical characteristics are available
- dual (bipolar, symmetrical) power supply
- full complementary Darlington transistors paralleled output
- 20-100W output power
- typ. 0.1% THD
- designed to drive 8 Ohm loads

Fig.1 shows a application with discrete input stage.

Die **STK00x Familie** beinhaltet eine Reihe von Ausgangsmodulen für Audio-Leistungsverstärker (Stromverstärker).

Anwendungen:

- HiFi Home Audio Stereo Systeme

Eigenschaften:

- pinkompatible Typen sind in Gehäusevarianten und mit unterschiedlichen technischen Daten verfügbar
- Spannungsversorgung bipolar/symmetrisch
- Komplementär-Ausgangsstufe mit Darlington-Transistoren
- 20-100W Ausgangsleistung
- typ. 0,1% THD
- entwickelt für eine Ausgangslast von 8 Ohm

Fig.1 zeigt eine Anwendung mit diskreter Eingangsstufe.

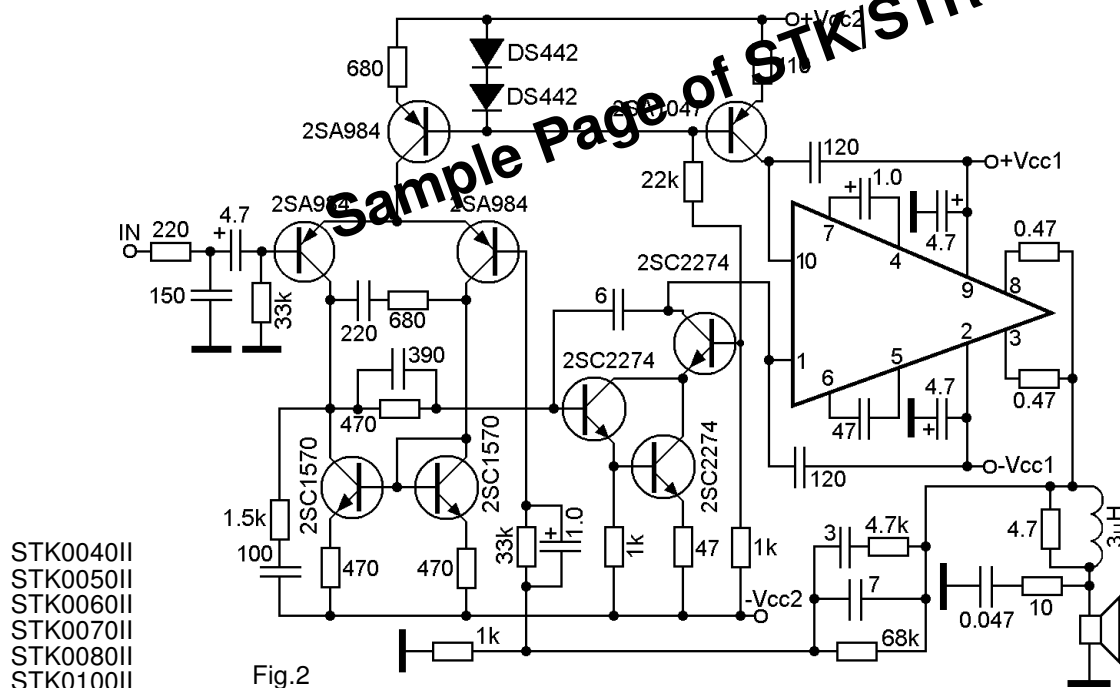
Type	Case	U_{ccmin}	U_{ccmax}	I_{cc0}	I_{outmax}	P_{outmax}	R_{Inom}	B_w	THD	G_v
STK0025	H4-10	±24.5V	±35V	40mA	3A	23W	8Ω	20Hz-20KHz	0.1%	40dB
STK0029	H4-10	±25V	±37V	40mA	3.5A	25W	8Ω	20Hz-20KHz	0.1%	40dB
STK0030	H4-10	±28V	±40V	40mA	4A	30W	8Ω	20Hz-20KHz	0.1%	40dB
STK0039	H6-10	±31V	±45V	40mA	5A	35W	8Ω	20Hz-20KHz	0.1%	40dB
STK0040	H4-10	±33V	±48V	40mA	5A	40W	8Ω	20Hz-20KHz	0.1%	40dB
STK0049	H6-10	±35V	±50V	40mA	5A	45W	8Ω	20Hz-20KHz	0.1%	40dB
STK0050	H6-10	±36V	±53V	40mA	5A	50W	8Ω	20Hz-20KHz	0.1%	40dB
STK0055	H6-10	±38V	±52V	40mA	7A	50W	8Ω	20Hz-20KHz	0.1%	40dB
STK0059	H6-10	±38V	±52V	40mA	7A	55W	8Ω	20Hz-20KHz	0.1%	40dB
STK0060	H8-10	±40V	±55V	40mA	7A	60W	8Ω	20Hz-20KHz	0.1%	40dB

Type	Case	U_{ccmin}	U_{ccmax}	I_{cc0}	I_{outmax}	P_{outmax}	R_{Inom}	B_w	THD	G_v
STK0070	H8-10	$\pm 43V$	$\pm 55V$	40mA	7A	70W	8Ω	20Hz-20KHz	0.1%	40dB
STK0080	H8-10	$\pm 46V$	$\pm 65V$	40mA	10A	80W	8Ω	20Hz-20KHz	0.1%	40dB
STK0100	H8-10	$\pm 50V$	$\pm 75V$	40mA	10A	100W	8Ω	20Hz-20KHz	0.1%	40dB
STK0105	H3-10	$\pm 50V$	$\pm 75V$	40mA	10A	100W	8Ω	20Hz-20KHz	0.1%	40dB

The characteristics are specified for 0,775V input signal and $T_c=25^\circ C$.

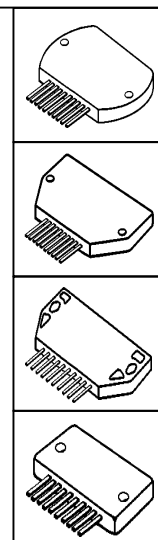
Die o.g. Daten gelten bei einem Eingangssignal mit $U_{in}=0,775V$ und $T_c=25^\circ C$.

Power audio amplifier output module



STK0040II
STK0050II
STK0060II
STK0070II
STK0080II
STK0100II

Fig.2



The **STK00xII series** ICs are power audio amplifier output modules (current amplifiers).

Applications:

- HiFi home audio stereo systems

Features:

- pin-to-pin compatible types in various cases with variable electrical characteristics are available
- full complementary Darlington transistors paralleled output
- dual (bipolar, symmetrical) power supply
- 40-100W output power
- typ. 0.01% THD
- designed to drive 8 Ohm loads

Fig.2 shows a application with discrete input stage.

Die **STK00xII Familie** beinhaltet eine Reihe von Ausgangsmodulen für Audio-Leistungsverstärker (Stromverstärker).

Anwendungen:

- HiFi Home Audio Stereo Systeme

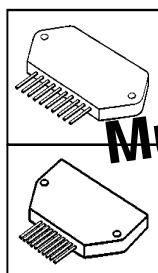
Eigenschaften:

- pinkompatible Typen sind in Gehäusevarianten und mit unterschiedlichen technischen Daten verfügbar
- Komplementär-Ausgangsstufe mit Darlington-Transistoren
- Spannungsversorgung bipolar/symmetrisch
- 40-100W Ausgangsleistung
- typ. 0,01% THD
- entwickelt für eine Ausgangslast von 8 Ohm

Fig.2 zeigt eine Anwendung mit diskreter Eingangsstufe.

Type	Case	U_{ccmin}	U_{ccmax}	I_{cc0}	I_{outmax}	P_{outmax}	R_{Inom}	B_w	THD	G_v
STK0040II	H4-10	$\pm 36V$	$\pm 48V$	40mA	5A	40W	8 Ω	20Hz-20KHz	0.01%	37.7dB
STK0050II	H6-10	$\pm 39V$	$\pm 53V$	40mA	6A	50W	8 Ω	20Hz-20KHz	0.01%	37dB
STK0060II	H8-10	$\pm 41V$	$\pm 55V$	40mA	8A	60W	8 Ω	20Hz-20KHz	0.01%	36.7dB
STK0070II	H8-10	$\pm 45V$	$\pm 60V$	40mA	10A	70W	8 Ω	20Hz-20KHz	0.01%	36.7dB
STK0080II	H8-10	$\pm 47V$	$\pm 65V$	40mA	12A	80W	8 Ω	20Hz-20KHz	0.01%	36,7dB
STK0100II	H3-10	$\pm 52V$	$\pm 75V$	40mA	15A	100W	8 Ω	20Hz-20KHz	0.01%	37dB

The characteristics are specified for 0.775V input signal and $T_c=25^\circ C$.
Die o.g. Daten gelten bei einem Eingangssignal mit $U_{in}=0,775V$ und $T_c=25^\circ C$.



Musterseiten des STK/STR Buch von ECA

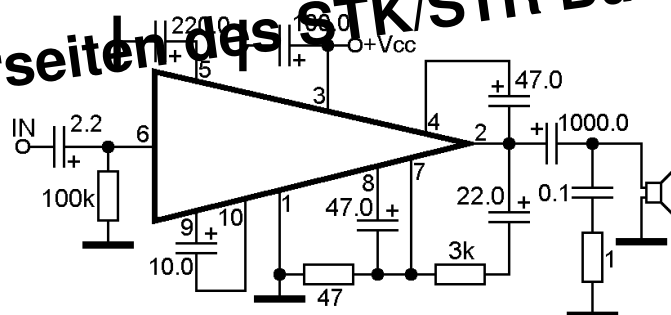


Fig.3

STK011
STK015
STK016

The integrated circuits **STK011**, **STK015** and **STK016** are power audio amplifiers.

Applications:

- car audio systems
- home audio systems

Features:

- pin-to-pin compatible types in various cases with variable electrical characteristics are available
- 6.5-15W output power
- typ. 1% THD
- designed to drive 8 Ohm loads

Fig.3 shows a typical application.

Die ICs **STK011**, **STK015** und **STK016** sind Audio-Leistungsverstärker.

Anwendungen:

- Kfz Audio Systeme
- Home Audio Systeme

Eigenschaften:

- pin-kompatible Typen sind in Gehäusevarianten und mit unterschiedlichen technischen Daten verfügbar
- 6,5-15W Ausgangsleistung
- typ. 1% THD
- entwickelt für eine Ausgangslast von 8 Ohm

Fig.3 zeigt eine typische Anwendung.

Type	Case	U_{ccmin}	U_{ccmax}	I_{cc0}	I_{outmax}	P_{outmax}	R_{Inom}	B_w	THD	G_v
STK011	H1-10	25V	38V	40mA	2.5A	6.5W	8 Ω	20Hz-20KHz	2%	35dB
STK015	H4-10	32V	48V	40mA	3A	10W	8 Ω	20Hz-20KHz	1%	33dB
STK016	H4-10	38V	54V	40mA	3.5A	15W	8 Ω	20Hz-20KHz	1%	33dB

The characteristics are specified for 0.25V input signal and $T_c=25^\circ C$.
Die o.g. Daten gelten bei einem Eingangssignal mit $U_{in}=0,25V$ und $T_c=25^\circ C$.

Functional index (of section 1)

ICs listed by their function

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5-band	STK6325A	154
5-band, 2-channel	STK6328A	158
6-band	STK6325C	155
7-band	STK6327A	156
7-band, 2-channel	STK301-090	16
	STK301-220	16
8-band	STK6327B	157

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fluorescent lamp inverter ballast		
	STR-B5051	216
	STR-B5052	216
	STR-B5053	216
	STR-B5054	216
	STR-B5055	216
	STR-B5056	216
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	STR-B5454	216

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	STK6711AMK4	158
	STK6711BMK3	158
	STK6711BMK4	158
	STK6712AMK3	158
	STK6712AMK4	158
	STK6712BMK3	158
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reversible brush-type DC motor

STK6855	162
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STK411-200E	49
STK411-210E	49
STK411-220E	49
STK411-230E	49
STK412-030	50
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STK4234MK2	119
STK4234MK5	119
STK4235MK2	119
STK4235MK5	119
STK426-530	55
STK496-090	47

2-channel, 2x10W

STK040	9
STK401-010	35
STK401-210	35
STK405-010	46
STK4110MK2	109
STK4110MK5	109
STK4111	110
STK4111II	111
STK4111V	111
STK4112	110
STK4112II	111
STK4112V	111
STK430	53
STK436	53
STK436-105	53
STK4362	125
STK437	53
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	STK4773	126		STK430III	53
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2-channel, 2x120W	STK401-140	35		STK401-240	35
	STK401-340	36		STK402-040	37
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	STK442-120	56		STK4142	110
	STK496-220	49		STK4142II	111
2-channel, 2x12W	STK4372	125		STK4142V	111
2-channel, 2x130W	STK411-290E	49		STK4144MK2	114
	STK417-130	49		STK4144MK5	114
2-channel, 2x140W	STK496-420Y	49		STK4145MK2	114
2-channel, 2x150W	STK407-130	47		STK4145MK5	114
	STK411-550E	49		STK443	53
	STK412-150	51		STK4432	125
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	STK4120MK5	109		STK4150MK2	109
	STK4121	110		STK4150MK5	109
	STK4121II	111		STK4151	110
	STK4121V	111		STK4151II	111
	STK4122	110		STK4151V	111
	STK4122II	111		STK4151X	113
	STK4122V	111		STK4152	110
	STK439	53		STK4152II	111
	STK4392	125		STK4152V	111
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	STK4793	126		STK4155MK2	114
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	STK4130MK2	109		STK4160MK2	109
	STK4130MK5	109		STK4160MK5	109
	STK4131	110		STK4161	110
	STK4131II	111		STK4161II	111
	STK4131V	111		STK4161V	111
	STK4132	110		STK4161X	113
	STK4132II	111		STK4162	110
	STK4132V	111		STK4162II	111
	STK441	53		STK4162V	111
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	STK4412	125		STK4165MK2	114
	STK460	57		STK4165MK5	114
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Replacements

ECG, NTE and TCE types

Vergleichstypen

ECG, NTE und TCE Typen

Originals	Replacements / Vergleichstypen					
STK0025	ECG1320	STK0029	STK0030	STK0039	STK0040	STK049
STK0029	ECG1320	STK0030	STK0039	STK0040	STK049	STK0050
STK0030	ECG1333	STK0039	STK0040	STK049	STK0050	STK0055
STK0039	ECG1280	NTE1280	STK0049	STK0059		
STK0040	ECG1279	ECG1333	NTE1281	STK0050		
STK0040II	ECG1334	STK0050II				
STK0049	ECG1321	STK0059				
STK0050	ECG1279	ECG1281	NTE1281	SK7661		
STK0050II	ECG1334	STK0060II				
STK0055	STK0059					
STK0059	ECG1321					
STK0060	ECG1346	STK0070	STK0080			
STK0060II	ECG1334	STK0070II	STK0080II			
STK0070	ECG1322	NTE1322	SK10007	STK0080		
STK0070II	ECG1335	STK0080II				
STK0080	ECG1322	NTE1322	SK10007			
STK0080II	ECG1335					
STK0100	ECG1342	STK0105				
STK0105	ECG1342					
STK011	ECG1024	NTE1024	SK3152	STK015	STK016	
STK013	ECG1212	STK014				
STK014	ECG1252					
STK015	ECG1027	NTE1027	STK016			
STK016	NTE1323	ECG1323	SK3154			
STK018	ECG1139	NTE1139	SK3155			
STK020	ECG1025	PA301		SK3155	STK027	
STK021	STK024	STK031	STK035			
STK022	ECG1090	STK025	STK032	STK036		
STK024	ECG1332	STK031	STK035			
STK025	ECG1090	STK032	STK032	STK036		
STK027	ECG1274	SK3155				
STK0292	STK0352	STK0452				
STK031	ECG1332	STK035				
STK032	ECG1090	STK036				
STK0352	STK0452					
STK036	ECG1148					
STK040	ECG1324	STK041	STK043			
STK041	ECG1325	STK043				
STK043	ECG1325					
STK0434II	NTE7030					
STK050	ECG1336	STK070				
STK054	ECG1028	NTE1028	SK3435	STK056		
STK056	ECG1028	NTE1028	SK3436	STK054		
STK058	ECG1336	ECG1340	ECG1341	NTE1340		
STK067	STK071					
STK070	ECG1336					
STK075	ECG1341					
STK075G	STK077G	STK078G				
STK077	ECG1326	NTE1326				

Originals	Replacements / Vergleichstypen					
STK077G	STK078G					
STK078	ECG1326	NTE1326				
STK080	ECG1327	NTE1327				
STK080G	STK082G					
STK082	ECG1327	NTE1327	SK7660			
STK083	ECG1328	NTE1328				
STK084	ECG1328	NTE1328				
STK084G	STK086G					
STK085	ECG1337	NTE1337	STK086			
STK085G	STK086G					
STK086	ECG1337	NTE1337				
STK1030	ECG1357	STK1040	STK1050	STK1060		
STK1035	STK1039	STK1045	STK1049	STK1055		
STK1039	STK1045	STK1049	STK1055	STK1059		
STK1040	ECG1357	STK1050	STK1060			
STK1045	STK1049	STK1055	STK1059			
STK1049	STK1055	STK1059	STK1050			
STK1050	ECG1358	NTE1358	SK9987	STK1060		
STK1050II	STK1060II	STK1070II	STK1080II			
STK1055	STK1059					
STK1060	ECG1360					
STK1060II	STK1070II	STK1080II				
STK1070II	STK1080II	STK1100II				
STK1080II	STK1100II					
STK2025	ECG1356	STK2029				
STK2029	ECG1356					
STK2030	ECG1875					
STK2135	STK2139	STK2145	STK2155			
STK2139	STK2145	STK2155				
STK2145	STK2155					
STK2230	ECG1875	SK10166	STK2240	STK2250		
STK2240	STK2250					
STK3041	STK3061	STK3081	STK3101			
STK3042	ECG1338	NTE1338	STK350-000	STK3062	STK3082	
STK3042III	ECG1878	NTE1878	SK9757			
STK3056	STK3076					
STK3061	STK3081	STK3101				
STK3062	STK350-010	STK3082	STK3102			
STK3062II	SK9849					
STK3062III	SK9849					
STK3081	STK3101					
STK3082	ECG1339	NTE1339	SK9997	STK350-020	STK3102	STK3122
STK3082II	ECG1339	NTE1339				
STK3102III	SK9852	STK350-030	STK3122	STK3152		
STK3122II	SK9758					
STK3122III	STK350-040	STK3152				
STK3152II	SK9759					
STK3152III	STK350-050					
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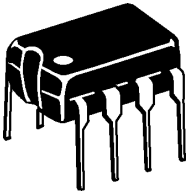
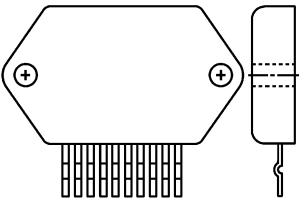
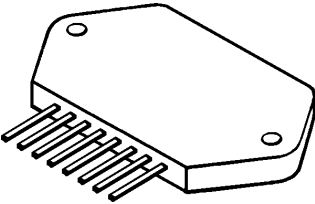
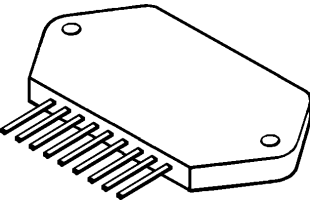
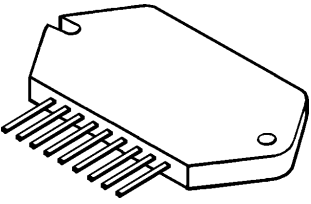
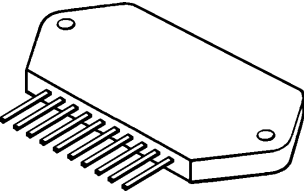
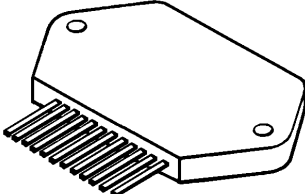
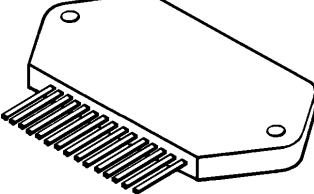
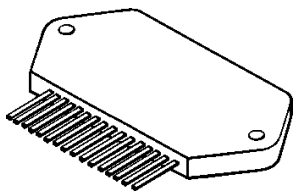
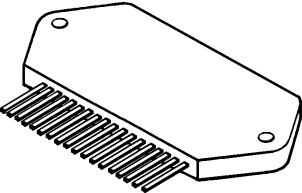
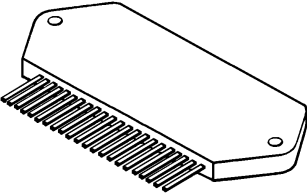
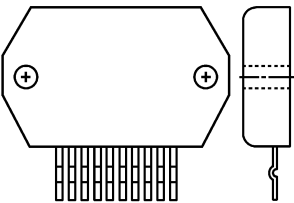
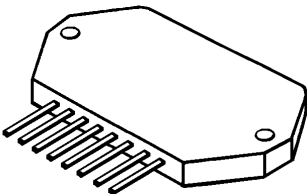
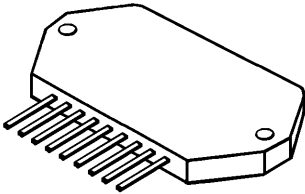
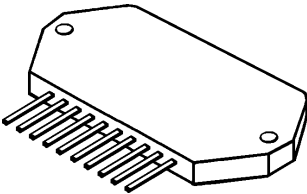
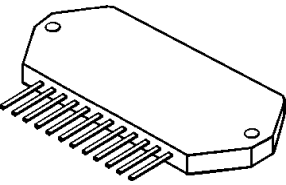
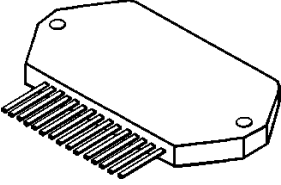
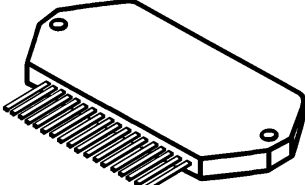
Musterseiten des STK/STR Buch von ECA

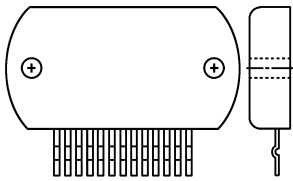
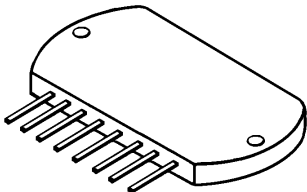
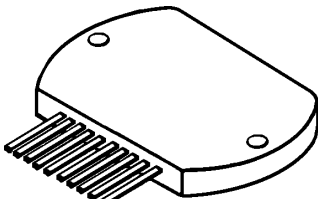
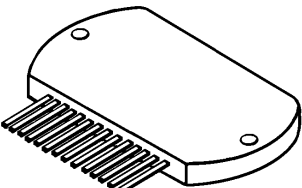
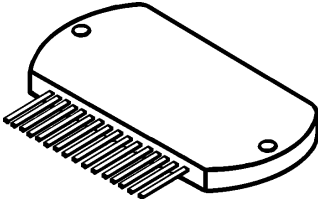
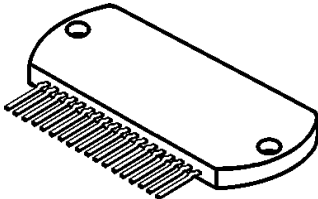
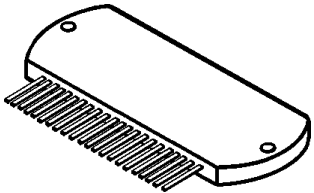
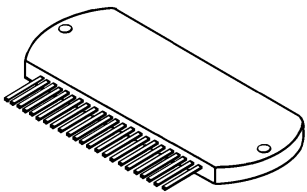
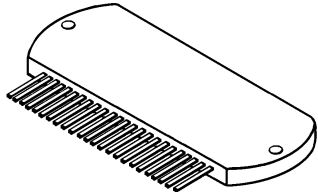
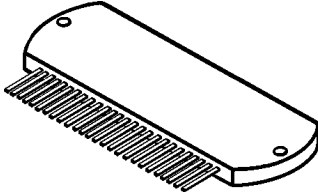
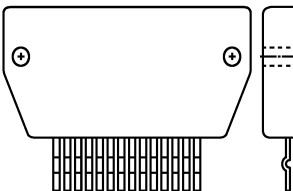
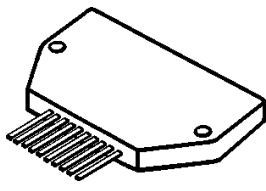
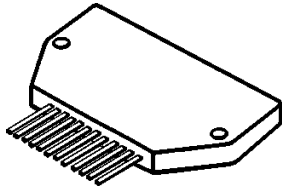
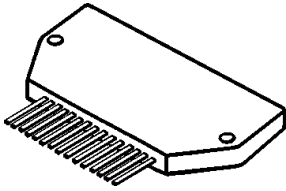
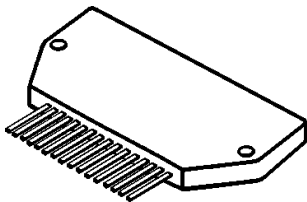
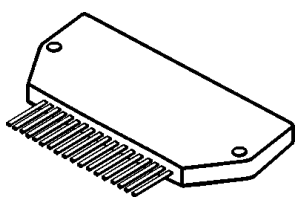
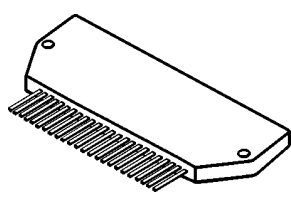
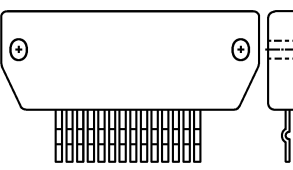
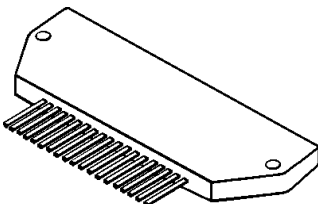
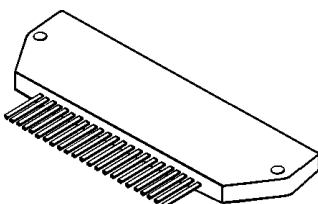
Case Index

all different cases

Gehäuseübersicht

Übersicht der verschiedenen Gehäuse

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