

DATA SHEET

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File under Integrated Circuits, IC01

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RADIO RECEIVERS	
AM receivers	
TDA1072A	AM receiver circuit; for car radios
TDA1072AT	AM receiver circuit; for car radios
TDA1572	AM receiver circuit; for car radios
TDA1572T	AM receiver circuit; for car radios
TEA5551T	Single-chip AM radio; dual AF amplifier for pocket receivers
TEA6200	AM upconversion radio receiver; 10.7 MHz IF
AM/FM receivers	
TEA5570	RF/IF circuit for AM/FM radio
TEA5591	AM/FM radio receiver circuit
TEA5591A	AM/FM radio receiver circuit
TEA5594	AM/FM radio receiver circuit ; for electronically-tuned radios
TEA5710; TEA5710T	AM/FM radio receiver circuit
* TEA5711; TEA5711T	AM/FM stereo radio circuit
* TEA5712; TEA5712T	AM/FM stereo DTS radio circuit
* TEA5757; TEA5759	Self tuned AM/FM radio receiver with stereo decoder for Japanese band
* TEA5762	Self tuned AM/FM radio receiver with stereo decoder for CENELEC
FM receivers	
TDA1574	Integrated FM tuner for radio receivers
TDA1574T	Integrated FM tuner for radio receivers
TDA1575T	FM front end circuit for CENELEC EN 55020 applications
TDA1596	IF amplifier/demodulator for FM radio receivers
TDA1596T	IF amplifier/demodulator for FM radio receivers
* TDA1597	IF amplifier/demodulator for FM radio receivers
* TDA1599	IF amplifier/demodulator for FM radio receivers
TDA7000	FM radio circuit
TDA7010T	FM radio circuit
TDA7021T	FM radio circuit for Micro Tuning Systems
TDA7088T	FM receiver circuit for battery supply; with search tuning
TEA6100	FM/IF system and microcomputer-based tuning interface; I ² C bus
PACS (Precision Adjacent Channel Selectivity)	

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* TEA6850	Precision adjacent channel selectivity PACS circuit
Combination AM/FM, IF, PLL, MPX and NC circuits	
* TEA6810V; TEA6811V	AM/FM Front-end and PLL synthesizer for car radios
* TEA6821T	AM/FM ICE car radio; I ² C bus
* TEA6822T	AM/FM IF, stereo decoder and NC circuit
DISCRETE SEMICONDUCTORS	
AM receiver JFET input	
BF245A; BF245B; BF245C	N-channel silicon field-effect transistors
BF246A to C; BF247A to C	N-channel silicon field-effect transistors
BF545A; BF545B; BF545C	N-channel silicon junction field-effect transistor
BF556A; BF556B; BF556C	N-channel field-effect transistors
BF851A; BF851B; BF851C	N-channel junction FETs
BF861A; BF861B; BF861C	N-channel junction FETs
J108; 109; J110	N-channel junction FETs
J308; J309; J310	N-channel silicon field-effect transistors
PMBFJ308; J309; J310	N-channel silicon field-effect transistors
Varicap diodes for AM tuning	
BB112	AM variable capacitance diode
BB130	AM variable capacitance diode
BB212	AM variable capacitance double diodes
Varicap diodes for FM tuning	
BB135	UHF variable capacitance diode
BB204B; BB204G	VHF variable capacitance double diodes
BB804	VHF variable capacitance double diode
MOSFETs for AM/FM tuning	
BF904; BF904R	N-channel dual gate MOS-FETs
BF904WR	N-channel dual gate MOS-FET

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BF908; BF908R	Dual gate MOS-FETs
BF908WR	N-channel dual gate MOS-FET
BF909; BF909R	N-channel dual gate MOS-FETs
BF909WR	N-channel dual gate MOS-FET
BF992; BF992R	Silicon n-channel dual gate MOS-FET
BF998; BF998R	Silicon n-channel dual gate MOS-FET
BF1100; BF1100R	Dual-gate MOS-FETS
BF1100WR	Dual-gate MOS-FET
Frequency/voltage synthesizers	
SAA1057	Radio tuning PLL frequency synthesizer
TSA6057; TSA6057T	Radio tuning PLL frequency synthesizer; I ² C bus
* TDA8735	PLL frequency synthesizer
* TSA6060	Fast radio tuning PLL frequency synthesizer; RDS; I ² C bus
VWF and RDS signal decoders	
SAA6579	Radio data system demodulator (RDS); 57 kHz integrated filter
TDA1579; TDA1579T	Decoder for traffic warning (VWF) radio transmissions; AM carriers; ARI system
TDA1581T	Decoder for traffic warning (VWF) radio transmissions; AM carriers; ARI system
Antenna diversity	
TEA6101; TEA6101T	Antenna diversity circuit
Satellite radio receiver circuits	
SAA7500	Digital satellite radio broadcasting tuner decoder (SAT-2)
Stereo decoders and Noise suppression circuits	
TDA1001B; TDA1001BT	Interference and noise suppression circuit for FM receivers
TDA1591	PLL stereo decoder and noise blanker; interference suppression
* TDA1592	PLL stereo decoder and noise blanker
TDA7040T	Low voltage PLL stereo decoder
TEA5581; TEA5581T	PLL stereo decoder; source selector switch; medium-fi and car radios

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* TEA5711; TEA5711T	AM/FM radio receiver circuit
* TEA5712; TEA5712T	AM/FM stereo DTS radio circuit
* TEA5757; TEA5759	Self tuned AM/FM radio receiver with stereo decoder for Japanese band
* TEA5762	Self tuned AM/FM radio receiver with stereo decoder for CELNEC applications
Radio Modules	
* OM5604; OM5606	Multimedia radio tuner
* OM5608	Multimedia radio tuner
Car DSP circuits	
* SAA7707H	Carradio Digital Signal Processor (CDSP)
AUDIO CIRCUITS	
Bus controlled	
TEA6300; TEA6300T	Car radio pre-amp and source selector with sound fader controls; I ² C bus
TEA6310T	Sound fader control circuit
* TEA6320	Sound fader control circuit; loudness function; zero-cross detection; I ² C bus
* TEA6321	Sound fader control circuit
* TEA6322T	Sound fader control circuit; I ² C bus
* TEA6323T	Sound fader control circuit; I ² C bus
TEA6330T	Sound fader control circuit for car radios; I ² C bus
TEA6360	5-band equalizer circuit; I ² C bus
DC-controlled	
TDA1029	Signal-sources switch; 4 x two channels
TDA1074A	Dual tandem electronic potentiometer circuit
TDA1524A	Stereo-tone/volume control circuit
TDA1526	Stereo-tone/volume control circuit
Dolby circuits	
SAA7710T	Dolby Pro Logic Surround Dolby 3 Stereo
TEA0655	Dual Dolby B-type noise reduction circuit for playback applications
TEA0665; TEA0665T	Dolby B&C processor with pre-amplifier and electronic switch

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TEA0675	Dual Dolby B-type noise reduction circuit for playback applications
TEA0678	Dual Dolby B-type noise reduction circuit, automatic music search, with differential outputs and mute
Audio cassette recorder circuits	
* TDA1522	Stereo cassette head preamplifier
* TDA1523	Stereo cassette head preamplifier and equalizer
TDA1602A	Double-deck playback/record IC (DDPR); stereo; for high quality 12V portables; all recorder functions
TEA0677T	Dual Pre-amplifier and equalizer for reverse tape decks
Compandors	
NE570/571/SA571	Compandor
NE/SA572	Programmable analog compandor
NE/SA576	Low power compandor
Voltage stabilizers	
* TDA3601Q; TDA3601AQ	Multiple output voltage regulator
TDA3602	Multiple output voltage regulator
* TDA3603	Multiple output voltage regulator with switch
* TDA3604	Multiple voltage regulator with external reset delay and switch
* TDA3606	5V regulator with reset and battery in/out
Audio amplifiers	
FOR PORTABLE RADIO/AUDIO EQUIPMENT	
TDA1011	2 to 6 W audio power amplifier with pre-amp
TDA1015	1 to 4 W audio power amplifier
TDA1015T	0.5 W audio power amplifier
TDA1016	Recording/playback and 2 W audio power amplifier
* TDA1308	Class AB stereo headphone driver
TDA7052	1 W BTL mono audio amplifier
TDA7052A; TDA7052AT	1 W BTL mono audio amplifier with DC volume control
TDA7052B	Mono BTL audio amplifier with DC volume control
TDA7053	2 x 1 W BTL portable/Mains-fed stereo power amplifier
TDA7053A	Stereo BTL audio output amplifiers with DC volume control

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TDA7056	3 W mono BTL audio output amplifier
TDA7056A	3 W BTL mono audio output amplifier with DC volume control
TDA7056B	5 W mono BTL audio amplifier with DC volume control
TDA7057Q	2 x 3 W stereo BTL audio output amplifier
* TDA7057AQ	2 x 5 W stereo BTL audio output amplifier with DC volume control
FOR CAR RADIO/POWER BOOSTERS	
TDA1010A	6 W audio power amplifier in-car applications 10 W audio power amplifier in Mains-fed applications
TDA1020	12 W car radio audio power amplifier
TDA1510AQ	24 W BTL or 2 x 12 W stereo car radio power amplifier
TDA1515BQ	24 W BTL or 2 x 12 W stereo car radio power amplifier
TDA1516BQ	24 W BTL or 2 x 12 W stereo car radio power amplifier
TDA1516CQ	24 W BTL car radio power amplifier
* TDA1517	2 x 6 watt stereo car radio power amplifier
TDA1518BQ	22 W BTL or 2 x 11 W stereo car radio power amplifier
TDA1519	2 x 6 Watt stereo car radio audio power amplifier
TDA1519A	22 W BTL or 2 x 11 Watt stereo car radio power amplifier
TDA1519B	12 W BTL or 2 x 6 W stereo car radio power amplifier
TDA1551Q	2 x 22 W BTL car radio power amplifier with diagnostic facility
TDA1552Q	2 x 22 W BTL stereo car radio power amplifier
TDA1553Q	2 x 22 W BTL stereo car radio power amplifier with loudspeaker Protection
* TDA1553CQ	2 x 22 W stereo BTL car radio power amplifier with loudspeaker Protection and 3-state mode switch
TDA1554Q	4 x 11 W single-ended or 2 x 22 W power amplifier
TDA1555Q	4 x 11 W single-ended or 2 x 22 W power amplifier with distortion detector
TDA1556Q	2 x 22 W stereo BTL differential amplifier with speaker Protection and dynamic distortion detector
TDA1557Q	2 x 22 W BTL stereo car radio power amplifier with speaker Protection
TDA1558Q	2 x 22 W or 4 x 11 W single-ended car radio power amplifier
* TDA1560Q	40 W car radio high power amplifier
* TDA1561Q	2 x 23 watt car radio power amplifier
TDA8560Q	2 x 40 W/2 Ω stereo BTL car radio power amplifier with diagnostic facility
TDA8561Q	2 x 24 W BTL or 4 x 12 W single-ended car radio power amplifier
TDA8562Q	4 x 12 W single-ended car radio power amplifier with dynamic distortion detector and diagnostic interface
* TDA8563Q	2 x 40 W/2 Ω stereo BTL car radio power amplifier with diagnostic facility
* TDA8564Q	2 x 24 W BTL or 2 x 12 W single-ended car radio power amplifier
* TDA8565Q	4 x 12 W single-ended car radio power amplifier with interface

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* TDA8566Q	2 x 25 W BTL stereo car radio power amplifier with differential inputs and diagnostic output
* TDA8574	Class-H high output voltage level line driver
* TDA8576T	Class-H high output voltage level line driver
* TDA8577	Dual common-mode rejection differential line receiver
* TDA8578	Dual common-mode rejection differential line receiver
* TDA8579T	Dual common-mode rejection differential line receiver
FOR MAINS-POWERED SYSTEMS INCLUDING HIFI AND TV SOUND	
TDA1013B	4 W audio power amplifier with DC volume control
TDA1514A	50 W high-performance hi-fi amplifier
TDA1521; TDA1521Q	2 x 12 W hi-fi stereo audio power amplifier
TDA1521A	2 x 6 W hi-fi stereo audio power amplifier
TDA2611A	5 W audio power amplifier
TDA2613	6 W hi-fi audio power amplifier
TDA2614	6 W hi-fi audio power amplifier
* TDA2615	2 x 6 W hi-fi audio power amplifier
TDA2616/TDA2616Q	2 x 12 W hi-fi audio power amplifiers with mute
TDA7050	Low voltage mono/stereo power amplifier
TDA7050T	Low voltage mono/stereo power amplifier
* TDA8541	1 W BTL audio amplifier
* TDA8542	2 x 1 W BTL audio amplifier
COMPACT DISC CIRCUITS (CD-AUDIO, CD-ROM, CD-VIDEO)	
Diode amplifier and laser power control circuits	
* TDA1300T	Photodetector amplifiers and laser supply
* TDA1302T	Data amplifier and laser supply circuit for CD player and read only optical systems
Digital servo controllers	
* OQ8868	digital servo intergrated circuit DSICS
* TDA1301T	Digital servo Processor (DSIC2)
CD decoder/encoder	

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* SAA7345	CMOS digital decoding IC with RAM for Compact Disc
* SAA7370	Digital servo Processor and Compact Disc decoder (CD7)
* SAA7370A	Digital servo Processor and Compact Disc decoder (CD7)
* SAA7372	Digital servo Processor and Compact Disc decoder (CD7)
* SAA7374	Low voltage digital servo Processor and Compact Disc decoder (CD7LV)
* SAA7376	Digital servo Processor and Compact Disc decoder (CD7)
CD diver circuits	
* OQ8844T	digital servo driver (DSD-2)
TDA7072A; TDA7072AT	single BTL power driver
TDA7073A; TDA7073AT	dual BTL power driver
Video CD decoders	
SAA2510	Video CD Audio/Video decoder MPEG
Digital Video encoders	
* SAA7182; SAA7183	digital video encoder (EURU-DENC)
* SAA7185	digital video encoder (EURU-DENC2)
CD-ROM block decoders	
* SAA7380	Quadruple speed CD-ROM block decoder (ATAPI)
* SAA7382	Double speed CD-ROM block decoder (ATAPI)//SAA7387(SCSI)
* SAA7385	High speed CD-ROM block decoder (SCSI)
* SAA7388	CD-ROM block decoder (SCSI)
* SAA7390	Block encoder/decoder for CD-recordable
CD-ROM block encoder/decoder	
*SAA7390	Block encoder/decoder for CD-recordable
DCC DIGITAL COMPACT CASSETTE CIRCUITS	
PASC Processors	
SAA2002	Stereo filter and CODEC
* SAA2003	Stereo filter and CODEC

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SAA2012	Adaptive allocation and scaling for record Processing in DCC systems
* SAA2013	Adaptive allocation and scaling for PASC coding in DCC systems
Tape drive Processors	
SAA2022	Tape formatting and error correction for the DCC system
* SAA2023	Drive Processor for DCC systems
SAA2032	Digital equalization for the tape drive Processing of the DCC system
* SAA3323	Drive Processor for DCC systems
Read/write amplifiers	
* TDA1318	DCC read amplifier
* TDA1319T	DCC write amplifier (write 2)
* TDA1380	DCC read amplifier (READ 3)
* TDA1381	DCC write amplifier (WRITE3)
* TDA1383	DCC record/playback amplifier (RW4)
Miscellaneous digital audio circuits	
SAA7274	Audio digital input circuit (ADIC)
* SAA7346	Shock absorbing RAM addresser
* TDA1308	Class AB stereo headphone driver
* TDA1315H	Digital audio input/output (DAIO)
* TDA1373H	General Digital Input (GDIN)
MPEG audio en/decoders	
* SAA2500	MPEG audio source decoder
* SAA2501	MPEG digital audio broadcast (DAB) decoder
SAA2520	Stereo filter and CODEC for MPEG layer 1 audio applications
SAA2521	Masking threshold Processor for MPEG layer 1 audio compression applications
DSP circuits	
* SAA7707H	Carradio Digital Signal Processor (CDSP)
* SAA7740H	Digital audio Processing IC (DAPIC)
* TDA1546T	Bitstream Continuous Calibration DAC with digital sound Processing (BCC-DAC)

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* TDA1548T	Bitstream continuous calibration filter-DAC with headphone driver and DSP
DACs, Digital to analogue convertors	
* TDA1305T	Stereo 1fs Bitstream continuous calibration DAC with up-sampling filter (BCC-DAC2)
* TDA1306T	Noise shaping filter DAC
* TDA1307	High-performance bitstream digital filter
* TDA1310A	Stereo continuous calibration DAC (CC-DAC)
* TDA1311A	Stereo continuous calibration DAC (CC-DAC)
TDA1312A; TDA1312AT	Stereo continuous calibration DAC (CC-DAC)
TDA1313; TDA1313T	Stereo continuous calibration DAC (CC-DAC)
* TDA1314T	Quadruple filter DAC
* TDA1386T	Bitstream Noise shaping filter DAC
* TDA1387T	Stereo continuous calibration DAC (CC-DAC)
* TDA1388	Bitstream continuous calibration filter-DAC for CD-ROM audio applications
TDA1541	Dual 16-bit DAC
TDA1541A	Stereo high performance 16-bit DAC
TDA1543	Dual 16-bit DAC (economy version) (I2S input format)
TDA1545A; TDA1545AT	Stereo continuous calibration DAC; 16 bit
* TDA1546T	Bitstream Continuous Calibration DAC with digital sound Processing (BCC-DAC)
TDA1547	Dual top-performance bitstream DAC
* TDA1548T	Bitstream continuous calibration filter-DAC with headphone driver and DSP
* TDA1549T	Stereo 4fs Bitstream continuous calibration DAC with up-sampling filter (BCC-DAC1)
ADCs, Analogue to digital convertors	
* SAA7360	Bitstream conversion ADC for digital audio systems
* SAA7366	Bitstream conversion ADC for digital audio systems
* SAA7367	Bitstream conversion ADC for digital audio systems
ADDAs, Digital to analogue convertors and analogue to digital convertors	
* TDA1309H	Low-voltage low-power stereo bitstream ADC/DAC
Digital audio systems	

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TDA8808T; TDA8808AT	Photo diode signal Processor for compact disc players
TDA8809T	Radial error signal Processor for compact disc players
MICROCONTROLLERS	
80C31/80C51/87C51	CMOS single-chip 8-bit microcontroller
80C32/80C52/87C52	CMOS single-chip 8-bit microcontrollers
80C451/83C451/87C451	CMOS single-chip 8-bit microcontroller
80C528/83C528	CMOS single-chip 8-bit microcontroller
80C550/83C550/87C550	CMOS single-chip 8-bit microcontroller with A/D and watchdog timer
80C552/83C552	Single-chip 8-bit microcontroller with 10-bit A/D, capture/compare timer, high-speed outputs, PWM
80C562/83C562	Single-chip 8-bit microcontroller with 8-bit A/D, capture/compare timer, high-speed outputs, PWM
80C652/83C652	CMOS single-chip 8-bit microcontroller
80C851/83C851	CMOS single-chip 8 bit microcontroller with on-chip EEPROM
80CL31/80CL51	low-voltage single-chip 8-bit microcontrollers
80CL410/83CL410	low voltage/low power single-chip 8-bit microcontroller with I ² C
83C654	CMOS single-chip 8-bit microcontroller
83C751/87C751	CMOS single-chip 8-bit microcontroller
83C752/87C752	CMOS single-chip 8-bit microcontroller with A/D, PWM
83CE654	CMOS single-chip 8-bit microcontroller with electromagnetic Compatibility improvements
P80CE558/P83CE558/P89CE558	Single-chip 8-bit microcontroller
P80CL580; P83CL580	Low-voltage single-chip 8-bit microcontrollers
P83C524	8-bit microcontroller
P83CL781/83CL782	Low-voltage single-chip 8-bit microcontrollers
P8xCE528	8-bit microcontroller with EMC
NON-VOLATILE MEMORIES	
PCA8581; PCA8581C	128 x 8-bit EEPROM with I ² C-bus interface; 4.5 to 5.5 V supply voltage
PCF8570	256 x 8-bit static low-voltage RAM with I ² C bus interface
PCx8582x-2 Family	256 x 8-bit CMOS EEPROMS with I ² C bus interface
PCx8594x-2 Family	512 x 8-bit CMOS EEPROMS with I ² C bus interface
PCx8598x-2 Family	1024 x 8-bit CMOS EEPROMS with I ² C bus interface
CLOCK/CALENDAR CIRCUITS	
PCF8573	Clock/calendar with serial I/O; power-fail detect; I ² C bus

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PCF8583	Clock calendar with 256 x 8-bit static RAM; I ² C bus
PCF8593	Low power clock calendar; I ² C bus
I/O EXPANDERS	
PCF8584	Parallel-bus to I ² C bus converter
PCF8574; PCF8574A	Remote 8-bit I/O expander for I ² C-bus; 8 slave addresses (4xH)
SAA1300	Tuner switching circuit; 5 high-current outputs; I ² C bus; 85mA per output
DACs/ADCs FOR ANALOGUE CONTROLS	
PCF8591	8-bit A/D and D/A converter; I ² C bus
TDA8442	I ² C bus interface for color decoders; four 6-bit DACs
TDA8444	Octuple 6-bit DAC with I ² C bus
DISPLAY DRIVERS	
LCD display	
PCF1303T	18-element bar graph LCD driver
PCF2116 family (PCF2114X; PCF2116X)	LCD controller/drivers
PCF8566	Universal LCD driver for low multiplex rates
PCF8576C	Universal LCD driver for low multiplex rates
PCF8577C	LCD direct/duplex driver with I ² C bus interface
PCF8578	LCD row/column driver for dot matrix graphic displays
PCF8579	LCD column driver for dot matrix graphic displays
PCF21XXC family	LCD drivers
LED DISPLAY	
SAA1064	4-digit LED driver with I ² C bus interface
IR REMOTE CONTROL CIRCUITS	
PCA84C122; 222; 422; 622; 822	8-bit microcontrollers for remote control transmitters; 1k ROM, 32 bytes RAM
SAA3010	Infrared remote control transmitter RC-5