# DATA SHEET

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# Alphanumeric index

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**Philips**
**Semiconductors**

**PHILIPS**

# Alphanumeric index Index

| 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 $I^2C$ |
| 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 |
| BB112 | AM variable capacitance diode |
| BB130 | AM variable capacitance diode |
| BB135 | UHF variable capitance diode |
| BB204B; BB204G | VHF variable capacitance double diodes |
| BB212 | AM variable capacitance double diodes |
| BB804 | VHF variable capacitance double diode |
| BF1100; BF1100R | Dual-gate MOS-FETS |
| BF1100WR | Dual-gate MOS-FET |
| 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 |
| BF904; BF904R | N-channel dual gate MOS-FETs |
| BF904WR | N-channel dual gate MOS-FET |
| 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 |
| J108; 109; J110 | N-channel junction FETs |

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| J308; J309; J310 | N-channel silicon field-effect transistors |
|---|---|
| NE/SA572 | Programmable analog compandor |
| NE/SA576 | Low power compandor |
| NE570/571/SA571 | Compandor |
| * **OM5604; OM5606** | Multimedia radio tuner |
| * **OM5608** | Multimedia radio tuner |
| OQ8844 | Digital servo driver (DSD-2) |
| * **OQ8868** | Digital servo intergrated circuit DSICS |
| P80CE558/P83CE558/P89CE558 | Dingle-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 |
| PCA84C122; 222; 422; 622; 822 | 8-bit microcontrollers for remote control transmitters; 1k ROM, 32 bytes RAM |
| PCA8581; PCA8581C | 128 x 8-bit EEPROM with $I^2$C-bus interface; 4.5 to 5.5 V supply voltage |
| PCF1303T | 18-element bar graph LCD driver |
| PCF2116 family (PCF2114X; PCF2116X) | LCD controller/drivers |
| PCF21XXC family | LCD drivers |
| PCF8566 | Universal LCD driver for low multiplex rates |
| PCF8570 | 256 x 8-bit static low-voltage RAM with $I^2$C-bus interface |
| PCF8573 | Clock/calendar with serial I/O; power-fail detect; $I^2$C-bus |
| PCF8574; PCF8574A | Remote 8-bit I/O expander for $I^2$C-bus; 8 slave addresses (4xH) |
| 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 |
| PCF8583 | Clock calendar with 256 x 8-bit static RAM; $I^2$C-bus |
| PCF8584 | Parallel-bus to $I^2$C-bus-bus converter |
| PCF8591 | 8-bit A/D and D/A converter; $I^2$C-bus |
| PCF8593 | Low power clock calendar; $I^2$C-bus |
| 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 |
| PMBFJ308; J309; J310 | N-channel silicon field-effect transistors |
| SAA1057 | Radio tuning PLL frequency synthesizer |
| SAA1064 | 4-digit LED driver with $I^2$C-bus-bus interface |
| SAA1300 | Tuner switching circuit; 5 high-current outputs; $I^2$C-bus; 85mA per output |
| SAA2002 | Stereo filter and CODEC |
| * **SAA2003** | Stereo filter and CODEC |
| SAA2012 | Adaptive allocation and scaling for record Processing in DCC systems |
| * **SAA2013** | Adaptive allocation and scaling for PASC coding in DCC system |

| SAA2022 | Tape formatting and error correction for the DCC system |
|---|---|
| * **SAA2023** | Drive Processor for DCC system |
| SAA2032 | Digital equalization for the tape drive Processing of the DCC system |
| * **SAA2500** | MPEG audio source decoder |
| * **SAA2501** | MPEG digital audio broadcast (DAB) decoder |
| SAA2510 | Video CD Audio/Video decoder MPEG |
| SAA2520 | Stereo filter and CODEC for MPEG layer 1 audio applications |
| SAA2521 | Masking threshold Processor for MPEG layer 1 audio compression applications |
| SAA3010 | Infrared remote control transmitter RC-5 |
| * **SAA3323** | Drive Processor for DCC systems |
| SAA6579 | Radio data system demodulator (RDS); 57 kHz integrated filter |
| * **SAA7182; SAA7183** | digital video encoder (EURU-DENC) |
| * **SAA7185** | digital video encoder (EURU-DENC2) |
| SAA7274 | Audio digital input circuit (ADIC) |
| * **SAA7345** | CMOS digital decoding IC with RAM for Compact Disc |
| * **SAA7346** | Shock absorbing RAM addresser |
| * **SAA7360** | Bitstream conversion ADC for digital audio systems |
| * **SAA7366** | Bitstream conversion ADC for digital audio systems |
| * **SAA7367** | Bitstream conversion ADC for digital audio systems |
| * **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) |
| * **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 |
| SAA7390 | Block encoder/decoder for CD-recordable |
| SAA7500 | Digital satellite radio broadcasting tuner decoder (SAT-2) |
| * **SAA7707H** | Carradio Digital Signal Processor (CDSP) |
| SAA7707H | Carradio Digital Signal Processor (CDSP) |
| * **SAA7710T** | Dolby Pro Logic Surround Dolby 3 Stereo |
| * **SAA7740H** | Digital audio Processing IC (DAPIC) |
| TDA1001B; TDA1001BT | Interference and noise suppression circuit for FM receivers |
| TDA1010A | 6 W audio power amplifier in-car applications 10 W audio power amplifier in Mains-fed applications |
| TDA1011 | 2 to 6 W audio power amplifier with pre-amp |
| TDA1013B | 4 W audio power amplifier with DC volume control |
| TDA1015 | 1 to 4 W audio power amplifier |

| TDA1015T | 0.5 W audio power amplifier |
|---|---|
| TDA1016 | Recording/playback and 2 W audio power amplifier |
| TDA1020 | 12 W car radio audio power amplifier |
| TDA1029 | Signal-sources switch; 4 x two channels |
| TDA1072A | AM receiver circuit; for car radios |
| TDA1072AT | AM receiver circuit; for car radios |
| TDA1074A | Dual tandem electronic potentiometer circuit |
| * **TDA1300T** | Photodetector amplifiers and laser supply |
| * **TDA1301T** | Digital servo Processor (DSIC2) |
| * **TDA1302T** | Data amplifier and laser supply circuit for CD player and read only optical systems |
| * **TDA1305T** | Stereo 1fs Bitsream continuous calibration DAC with up-sampling filter (BCC-DAC2) |
| * **TDA1306T** | Noise shaping filter DAC |
| * **TDA1307** | High-performance bitstream digital filter |
| * **TDA1308** | Class AB stereo headphone driver |
| TDA1308 | Class AB stereo headphone driver |
| * **TDA1309H** | Low-voltage low-power stereo bitstream ADC/DAC |
| * **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 |
| * **TDA1315H** | Digital audio input/output (DAIO) |
| * **TDA1318** | DCC read amplifier |
| * **TDA1319T** | DCC write amplifier (write 2) |
| * **TDA1373H** | General Digital Input (GDIN) |
| * **TDA1380** | DCC read amplifier (READ 3) |
| * **TDA1381** | DCC write amplifier (WRITE3) |
| * **TDA1383** | DCC record/playback amplifier (RW4) |
| * **TDA1386T** | Bitstream Noise shaping filter DAC |
| * **TDA1387T** | Stereo continuous calibration DAC (CC-DAC) |
| * **TDA1388** | Bitstream continuous calibration filter-DAC for CD-ROM audio applications |
| TDA1510AQ | 24 W BTL or 2 x 12 W stereo car radio power amplifier |
| TDA1514A | 50 W high-performance hi-fi 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 |

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| TDA1519B | 12 W BTL or 2 x 6 W stereo car radio power amplifier |
|---|---|
| TDA1521; TDA1521Q | 2 x 12 W hi-fi stereo audio power amplifier |
| TDA1521A | 2 x 6 W hi-fi stereo audio power amplifier |
| * **TDA1522** | Stereo cassette head preamplifier |
| * **TDA1523** | Stereo cassette head preamplifier and equalizer |
| TDA1524A | Stereo-tone/volume control circuit |
| TDA1526 | Stereo-tone/volume control circuit |
| 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) |
| * **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) |
| TDA1551Q | 2 x 22 W BTL car radio power amplifier with diagnostic facility |
| TDA1552Q | 2 x 22 W BTL stereo car radio power amplifier |
| * **TDA1553CQ** | 2 x 22 W stereo BTL car radio power amplifier with loudspeaker Protection and 3-state mode switch |
| TDA1553Q | 2 x 22 W BTL stereo car radio power amplifier with loudspeaker Protection |
| 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 |
| TDA1572 | AM receiver circuit; for car radios |
| TDA1572T | AM receiver circuit; for car radios |
| TDA5774 | Integrated FM tuner for radio receivers |
| TDA1574T | Integrated FM tuner for radio receivers |
| TDA1575T | FM front end circuit for CENELEC EN 55020 applications |
| 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 |
| TDA1591 | PLL stereo decoder and noise blanker; interference suppression |
| * **TDA1592** | PLL stereo decoder and noise blanker |

| 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 |
| TDA1602A | Double-deck playback/record IC (DDPR); stereo; for high quality 12V portables; all recorder functions |
| 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 |
| * **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 |
| TDA7000 | FM radio circuit |
| TDA7010T | FM radio circuit |
| TDA7021T | FM radio circuit for Micro Tuning Systems |
| TDA7040T | Low voltage PLL stereo decoder |
| TDA7050 | Low voltage mono/stereo power amplifier |
| TDA7050T | Low voltage mono/stereo power amplifier |
| 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 |
| 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 |
| * **TDA7057AQ** | 2 x 5 W stereo BTL audio output amplifier with DC volume control |
| TDA7057Q | 2 x 3 W stereo BTL audio output amplifier |
| TDA7072A; TDA7072AT | Single BTL power driver |
| TDA7073A; TDA7073AT | Dual BTL power driver |
| TDA7088T | FM receiver circuit for battery supply; with search tuning |
| TDA8442 | $I^2$C-bus interface for color decoders; four 6-bit DACs |
| TDA8444 | Octuple 6-bit DAC with $I^2$C-bus |
| * **TDA8541** | 1 W BTL audio amplifier |
| * **TDA8542** | 2 x 1 W BTL audio amplifier |
| * **TDA8560Q** | 2 x 40 W/2 $\Omega$ 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 |
| * **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 |
| * **TDA8735** | PLL frequency synthesizer |
| TDA8808T; TDA8808AT | Photo diode signal Processor for compact disc players |
| TDA8809T | Radial error signal Processor for compact disc players |
| TEA0655 | Dual Dolby B-type noise reduction circuit for playback applications |
| TEA0665; TEA0665T | Dolby B&C processor with pre-amplifier and electronic switch |
| TEA0675 | Dual Dolby B-type  noise reduction circuit for playback applications |
| TEA0677T | Dual Pre-amplifier and equalizer for reverse tape decks |
| TEA0678 | Dual Dolby B-type noise reduction circuit, automatic music search, with differential outputs and mute |
| TEA5551T | Single-chip AM radio; dual AF amplifier for pocket receivers |
| TEA5570 | RF/IF circuit for AM/FM radio |
| TEA5581; TEA5581T | PLL stereo decoder; source selector switch; medium-fi and car radios |
| 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 CELNEC applications |
| TEA6100 | FM/IF system and microcomputer-based tuning interface; I2C bus |
| TEA6101; TEA6101T | Antenna diversity circuit |
| TEA6200 | AM upconversion radio receiver; 10.7 MHz IF |
| TEA6300; TEA6300T | Car radio pre-amp and source selector with sound fader controls; I2C bus |
| TEA6310T | Sound fader control circuit |
| * **TEA6320** | Sound fader control circuit; loudness function;zero-cross detection; I2C bus |
| * **TEA6321** | Sound fader control circuit |
| * **TEA6322T** | Sound fader control circuit; I2C bus |
| * **TEA6323T** | Sound fader control circuit; I2C bus |
| TEA6330T | Sound fader control circuit for car radios; I2C bus |

| TEA6360 | 5-band equalizer circuit; I2C bus |
|---|---|
| * **TEA6810V; TEA6811V** | AM/FM Front-end and PLL synthesizer for car radios |
| * **TEA6821T** | AM/FM ICE car radio; I2C bus |
| * **TEA6822T** | AM/FM IF, stereo decoder and NC circuit" |
| * **TEA6850** | Precision adjacent channel selectivity PACS circuit |
| TSA6057; TSA6057T | Radio tuning PLL frequency synthesizer; I2C bus |
| * **TSA6060** | Fast radio tuning PLL frequency synthesizer; RDS; I2C bus |