

**4-HEAD VIDEO AND 2-HEADS HIFI AUDIO
PLAYBACK AND RECORD AMPLIFIER FOR VCR**

- ONE 5V POWER SUPPLY
- PLAYBACK/RECORD MODE SELECTION THROUGH A LOGIC INPUT
- PINNING COMPATIBLE WITH STV5725 AND STV5727
- SO28 PACKAGE

PLAYBACK MODE

- LOW NOISE AND WIDE BAND AMPLIFIERS FOR 4 VIDEO HEADS
- AUTOMATIC OFFSET CANCELLATION BETWEEN THE 2 SELECTED HEADS
- ONE PLAYBACK OUTPUT WITH AGC
- ONE PLAYBACK OUTPUT (60dB CONSTANT GAIN)
- ONE OUTPUT FOR AUTOMATIC VIDEO TRACKING
- SP/LP ENVELOPE COMPARATOR OUTPUT
- LOW NOISE AMPLIFIERS FOR 2 HIFI HEADS
- HIFI OUTPUT GAIN (70dB)

RECORD MODE

- TRANSCONDUCTANCE AMPLIFIER FOR VIDEO
- AGC AMPLIFIER FOR HIFI

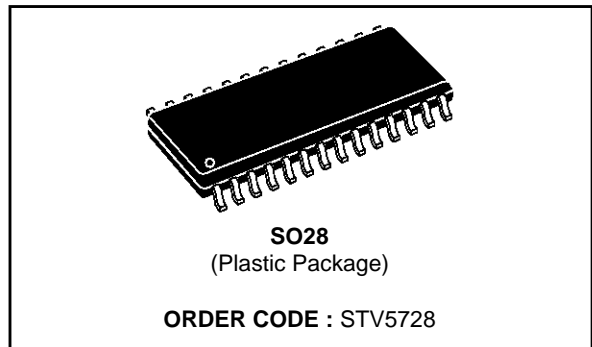
DESCRIPTION

STV5728 is intended for 4 heads VCR applications with HIFI. It includes all the electrical functions necessary to achieve play-back and record processing. Record or Playback Mode can be selected through SWR Pin. SWH allows to select the video head input (H1SP or H2SP, H1LP or H2LP), while SWM will select the mode SP or LP. The SWFMH will select the FM input heads in Playback and will mute the HIFI record amplifier in Record Mode.

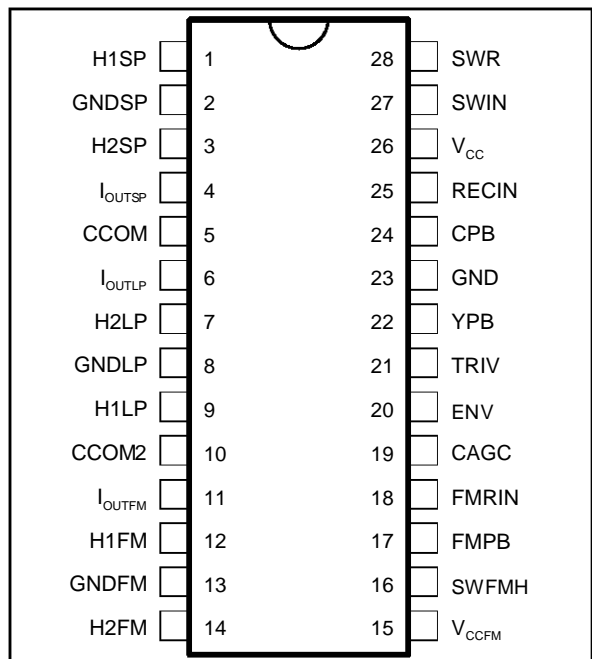
Playback Mode (Video)

Signals applied on H1SP, H2SP, H1LP and H2LP input pins will be amplified by 60dB voltage gain. I_{OUTSP} and I_{OUTLP} Pins are AC short-circuited to ground. The input signal can be selected through SWH and SWM inputs and the corresponding output signal will be available on Pin CPB. The offset

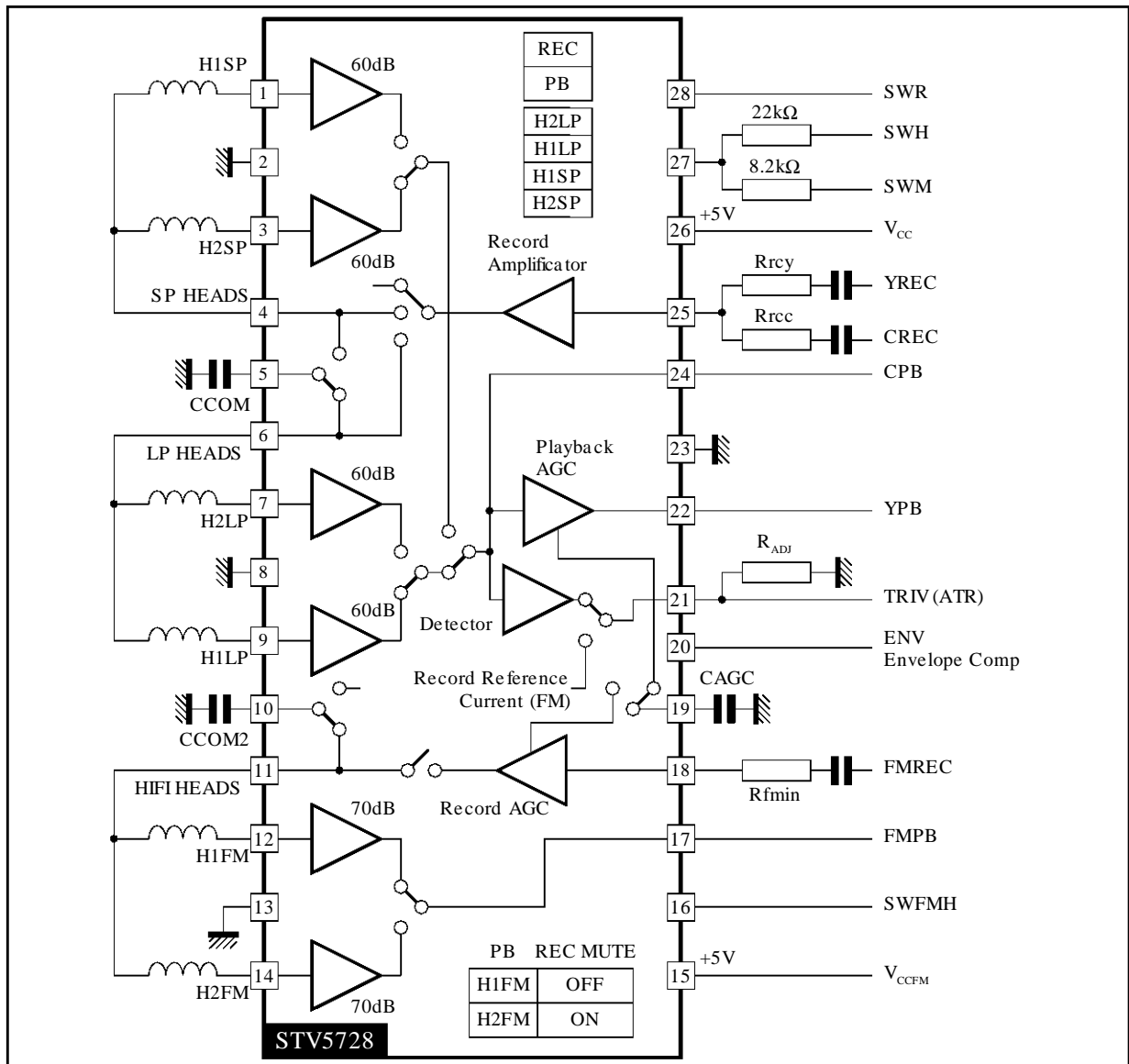
voltage between the two selected heads is automatically cancelled after 32 switching head cycles. A constant output signal will be available on Pin YPB thanks to an AGC function (Automatic Gain Control). The time constant of the AGC is determined by the capacitor value connected to CAGC Pin. For Automatic Tracking, a signal which is a function of the selected input signal amplitude is present on Pin TRIV. For Trick Mode, a signal resulting from the comparison of the input signal amplitude is available on ENVC Pin.



PIN CONNECTIONS



BLOCK DIAGRAM



5728-02.EPS

FUNCTIONAL DESCRIPTION

Record Mode (Video)

The current input applied on RECIN Pin is amplified through a transconductance amplifier. Special care has been taken to speed up commutation from Playback to Record and from Record to Playback, avoiding spikes through the loads (the rotary transformers). The recording current level in LP mode is 0.9 time the value of SP one.

AC short-circuited to ground by CCOM1. The input signal can be selected through SWFMH input and the corresponding output signal will be available on Pin FMPB.

Playback Mode (FM HIFI)

Signals applied on H1FM and H2FM input Pins will be amplified by 70dB voltage gain. I_{OUTFM} Pin is

Record Mode (HIFI)

The current input applied on FMRIN Pin is amplified through an Automatic Gain Control amplifier. The recording level can be adjusted thanks to the R_{ADJ} resistance connected to TRIV Pin. Special care has been taken to speed up commutation from Playback to Record and from Record to Playback, avoiding spikes through the loads (the rotary transformers).

ABSOLUTE MAXIMUM RATINGS

| Symbol | Parameter | Value | Unit |
|-------------------|-----------------------|--------|------|
| V _{CC} | Power Supply Voltage | 6 | V |
| T _j | Junction Temperature | 150 | °C |
| T _{oper} | Operating Temperature | 0, +70 | °C |

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THERMAL DATA

| Symbol | Parameter | Value | Unit |
|-----------------------|--|-------|------|
| R _{th (j-a)} | Junction-ambient Thermal Resistance (IC soldered on the PC board) Max. | 75 | °C/W |

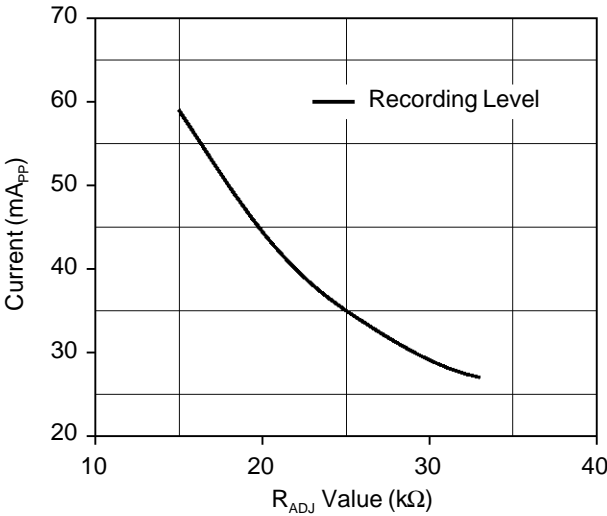
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RECOMMENDED OPERATING CHARACTERISTICS

| Symbol | Parameter | Min. | Typ. | Max. | Unit |
|-------------------|------------------------------------|------|------|------|------|
| V _{CC} | Power Supply | 4.75 | 5 | 5.25 | V |
| V _{CCFM} | FM HIFI Power Supply | 4.75 | 5 | 5.25 | V |
| CAGC | AGC Time Constant | 4.7 | 22 | | nF |
| CCOM | Decoupling Capacitor | 4.7 | 470 | | nF |
| CCOM1 | Decoupling Capacitor | 4.7 | 470 | | nF |
| R _{ADJ} | Record Current Adjustment Resistor | 15 | 22 | 33 | kΩ |

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Figure 1 : FM Record Current Amplifier ; Record Current Adjustment Curve



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A certain ratio must be kept between R_{ADJ} and R_{FMRIN} to insure maximum performances with an average FM recording input voltage around 170mV_{PP}. Some examples are given in the following tables. If the average input voltage is higher (or lower), the R_{FMRIN} value must be increased (decreased) proportionnaly.

| SET-UP | R _{ADJ} | R _{FMRIN} |
|--------|------------------|--------------------|
| (1) | 15kΩ | 1kΩ |
| (2) | 22kΩ | 1.5kΩ |
| (3) | 33kΩ | 2kΩ |

ELECTRICAL CHARACTERISTICS ($T_{amb} = 25^{\circ}C$, unless otherwise specified)

Playback Mode

$V_{CC} = 5V$, no load on YPB and CPB Pins, $R_{ADJ} = 22k\Omega$, after 32 SWH (SWitching Head) cycles.

| Symbol | Parameter | Test Conditions | Min. | Typ. | Max. | Unit |
|---------------------------|---|--|------|------|------|---------------------------|
| PLAYBACK AMPLIFIER | | | | | | |
| I_{CC1} | Supply Current | | 40 | 48 | 53 | mA |
| GPB | Playback Gain | Sinewave 600kHz, 0.4mV _{PP} on inputs | 58 | 60 | 62 | dB |
| EN | Equivalent Voltage Noise | Input grounded via I _{OUT} Pin @ 600kHz, BW = 10kHz | 0.5 | 0.6 | 0.7 | $\frac{nV}{\sqrt{Hz}}$ |
| IN | Equivalent Input Current | Input open @ 6MHz, BW = 10kHz | 1.4 | 2 | 2.6 | $\frac{\mu A}{\sqrt{Hz}}$ |
| CRT1 | Crosstalk Between SP Channels (or LP Channels) | Sinewave @ 4MHz, 0.4mV _{PP} | | -41 | -39 | dB |
| CRT2 | Crosstalk | Sinewave @ 600kHz, 0.4mV _{PP} | | -50 | | dB |
| CRT3 | Crosstalk Between SP1 and LP2 Channels (or SP2 to LP1 Channels) | Sinewave @ 6MHz, 0.4mV _{PP} | | -60 | -50 | dB |
| RPBSW | Playback Switch on Resistor | @ 6MHz | 0.8 | 2.5 | 18 | Ω |
| BWLCF | Attenuation @ 100kHz | Reference level @ 600kHz | -1 | 0 | 1 | dB |
| BWHCF | Attenuation @ 8MHz | Reference level @ 4MHz | -3 | 1 | 0 | dB |
| C_{IN} | Input Capacitance | @ 6MHz | 22 | 27 | 32 | pF |
| R_{IN} | Input Resistance | @ 6MHz | 500 | 730 | 950 | Ω |
| ZCPB | Output Resistance | DC | 5 | 14 | 50 | Ω |
| VDCPB1 | DC Level on Pin CPB | | 1.35 | 1.75 | 2.15 | V |
| DVDC | Head Switch Offset | | -200 | 0 | 200 | mV |
| SHPB1 | 2nd Harmonic | Sinuswave @ 4MHz, 0.4mV _{PP} | | -43 | -37 | dB |

PLAYBACK AGC FUNCTION

| | | | | | | |
|--------|------------------------|---|------|------|------|------------------|
| ZYPB | Output Impedance @ YPB | | 5 | 14 | 50 | Ω |
| VDCPB2 | DC Level @ YPB | | 1.15 | 1.45 | 1.85 | V |
| BWLCF2 | Attenuation @ 100kHz | Reference @ 4MHz, PB AGC locked | -1 | 0 | 1 | dB |
| BWHCF2 | Attenuation @ 8MHz | Reference @ 4MHz, PB AGC locked | -3 | -1 | 1 | dB |
| VLPB | Output Amplitude | Sinuswave @ 4MHz, 0.4mV _{PP} on input | 160 | 200 | 250 | mV _{PP} |
| SHPB2 | Second Harmonic | Sinuswave @ 4MHz, 0.4mV _{PP} on input | | -44 | -40 | dB |
| IPB+ | CAGC Sink Current | | 50 | 100 | 150 | μA |
| IPB- | CAGC Source Current | | -150 | -100 | -50 | μA |
| DVLP | AGC Sensitivity | Sinuswave @ 4MHz, 0.2mV _{PP} on input, -5dB and +6dB | -1 | 0 | 1 | dB |

TRIV FUNCTION

| | | | | | | |
|---------|---|--|------|------|-----|----|
| VTRIV0 | Output Level (1) | SP mode, $V_{cpb} = 0mV_{PP}$ @ 4MHz | 0.05 | 0.28 | 0.7 | V |
| VTRIV4 | Output Level (4) | LP mode, $V_{cpb} = 600mV_{PP}$ @ 4MHz | | 4.1 | | V |
| VTRIV5 | Output Level (5) | SP mode, $V_{cpb} = 100mV_{PP}$ @ 4MHz | | 1.33 | | V |
| VTRIV6 | Output Level (6) | SP mode, $V_{cpb} = 200mV_{PP}$ @ 4MHz | | 2.27 | | V |
| VTRIV7 | Output Level (7) | LP mode, $V_{cpb} = 100mV_{PP}$ @ 4MHz | 1.4 | 1.8 | 2.2 | V |
| VTRIV8 | Output Level (8) | LP mode, $V_{cpb} = 200mV_{PP}$ @ 4MHz | | 3.11 | | V |
| VTRIV9 | Output Level (9) | SP mode, $V_{cpb} = 300mV_{PP}$ @ 4MHz | | 2.95 | | V |
| VTRIV10 | Output Level (10) | SP mode, $V_{cpb} = 600mV_{PP}$ @ 4MHz | | 3.85 | | V |
| FTRIV1 | Response Lower Frequency, Attenuation @ 1MHz | Reference : SP mode, $V_{cpb} = 100mV_{PP}$ @ 4MHz | | -6 | | dB |
| FTRIV2 | Response Higher Frequency, Attenuation @ 8MHz | Reference : SP mode, $V_{cpb} = 100mV_{PP}$ @ 4MHz | | -1 | | dB |

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ELECTRICAL CHARACTERISTICS ($T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified) (continued)**Playback Mode** (continued) $V_{CC} = 5\text{V}$, no load on YPB and CPB Pins, $R_{ADJ} = 22\text{k}\Omega$

| Symbol | Parameter | Test Conditions | Min. | Typ. | Max. | Unit |
|---------------------------|-----------------------------|--|------|------|------|--------------------------------------|
| SP/LP ENVELOPE DETECTOR | | | | | | |
| R_{OH} | Output Resistance @ ENVC | Sinewave $600\mu\text{V}_{PP}$ @ 4 MHz on H2SP | 0.65 | 1.6 | 2.8 | $\text{k}\Omega$ |
| R_{OL} | Output Resistance @ ENVC | Sinewave $600\mu\text{V}_{PP}$ @ 4 MHz on H1LP | 0.65 | 1.6 | 2.8 | $\text{k}\Omega$ |
| VENVCH | Output Level | | 4 | | 5 | V |
| VENVCL | Output Level | | 0 | | 1 | V |
| SENS1 | Sensibility | $100\mu\text{V}_{PP}$ to $600\mu\text{V}_{PP}$ @ LP input pins | | | 1 | V |
| SENS2 | Sensibility | $100\mu\text{V}_{PP}$ to $600\mu\text{V}_{PP}$ @ SP input pins | 4 | | | V |
| PLAYBACK AMPLIFIER (HIFI) | | | | | | |
| I_{CCFM1} | Supply Current | | 24 | 28 | 32 | mA |
| GPBFM | Playback Gain | Sinewave 1.6MHz, 0.2mV_{PP} on inputs | 66 | 70 | 74 | dB |
| ENFM | Equivalent Voltage Noise | Input grounded via I_{OUT} Pin @ 600kHz, BW = 10kHz | 0.4 | 0.5 | 0.6 | $\frac{\text{nV}}{\sqrt{\text{Hz}}}$ |
| INFM | Equivalent Input Current | Input open @ 1.6MHz, BW = 10kHz | 2.4 | 3.5 | 5 | $\frac{\text{pA}}{\sqrt{\text{Hz}}}$ |
| CRTFM1 | Crosstalk | Sinewave @ 1.6MHz, 0.2mV_{PP} | | -45 | -40 | dB |
| RPBFMSW | Playback Switch on Resistor | @ 6MHz | 1.1 | 2.4 | 5 | Ω |
| BWFMLCF | Attenuation @ 1MHz | Reference level @ 1.6MHz | -1 | 0 | 1 | dB |
| BWFMHCF | Attenuation @ 2MHz | Reference level @ 1.6MHz | -1 | 0 | 1 | dB |
| C_{INFM} | Input Capacitance | @ 1.6MHz | | 35 | | pF |
| R_{INFM} | Input Resistance | @ 1.6MHz | 100 | 550 | 1000 | Ω |
| ZCPBFM | Output Resistance | DC | 5 | 24 | 50 | Ω |
| VDCPBFM | DC Level on Pin YFMPB | | 1.4 | 1.8 | 2.5 | V |
| DVDCFM | Head Switch Offset | | -200 | 0 | 200 | mV |
| SHPBFM1 | 2nd Harmonic | Sinuswave @ 1.6MHz, 0.2mV_{PP} | | -45 | -40 | dB |
| VMAXFM | Maximum Output Voltage | Sinuswave @ 1.6MHz, 2nd harmonic < -35dB | 2 | | | V_{PP} |

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ELECTRICAL CHARACTERISTICS ($T_{amb} = 25^{\circ}C$, unless otherwise specified) (continued)

Record Mode

$V_{CC} = 5V$, $V_{CCFM} = 5V$, $R_{ADJ} = 22k\Omega$, $SWR = 5V$, $CCOM = 470nF$, $CCOM1 = 470nF$, $RRCY = 2.2k\Omega$, $RRCC = 8.2k\Omega$, $RFMIN = 1.5k\Omega$, $SWFMH = 5V$, $SWM = 0V$ (SP Mode).

Load $10\mu H//1k\Omega$ for each simulated head.

Damping network of $1nF/620\Omega$ connected between each record output and Ground.

| Symbol | Parameter | Test Conditions | Min. | Typ. | Max. | Unit |
|--------|-----------|-----------------|------|------|------|------|
|--------|-----------|-----------------|------|------|------|------|

RECORD AMPLIFIER (Video)

| | | | | | | |
|------------------|---|--|-----|-----|-----|------------------|
| I _{CC2} | Current Supply | | 60 | 74 | 86 | mA |
| IHA0 | DC Current through I _{OUTSP} or I _{OUTLP} | | 27 | 42 | 54 | mA |
| IHA2 | 2nd Harmonic | VRCY = 300mV _{PP} @ 4MHz | | -49 | -40 | dB |
| IMAX | Maximum Current | @ 4MHz, 2nd harmonic < 35dB | 35 | | | mA _{PP} |
| BWRECL | Attenuation at 100kHz | Reference level @ 600kHz | -1 | 0 | 1 | dB |
| BWRECH | Attenuation at 8MHz | Reference level @ 4MHz | -2 | 0 | 1 | dB |
| TRSP | Transconductance SP | V _{IN} = 300mV _{PP} @ 4MHz | 66 | 70 | 74 | mA/V |
| TRLP | Transconductance LP | V _{IN} = 300mV _{PP} @ 4MHz, SWM = 5V | 60 | 64 | 68 | mA/V |
| RSAT | Output Stage Resistance | @ 4MHz | 5 | 11 | 20 | Ω |
| TRR | Transconductance Ratio | TRSP / TRLP | 0.8 | 1 | 1.2 | dB |
| RIOUT | Impedance on I _{OUTSP} (I _{OUTLP}) | $\Delta V = 1V$ | 40 | 100 | 300 | k Ω |
| VTRIVR | Voltage on TRIV Pin | | 2 | 2.4 | 2.8 | V |

RECORD AMPLIFIER (FM HIFI)

| | | | | | | |
|--------------------|-------------------------------------|--|------|------|-----|------------------|
| I _{CCFM2} | Current Supply | | 48 | 76 | 104 | mA |
| IHF0 | DC Current through I _{OUT} | | 26 | 49 | 72 | mA |
| IHF1 | Fundamental | VFMREC = 170mV _{PP} @ 1.6MHz | 32 | 37 | 42 | mA _{PP} |
| IHF2 | 2nd Harmonic | VRCY = 170mV _{PP} @ 1.6MHz | -52 | -46 | -40 | dB |
| BWRECL | Attenuation at 1MHz | Reference level @ 1.6MHz, AGC locked | -1 | 0 | 1 | dB |
| BWFMRH | Attenuation at 2MHz | Reference level @ 1.6MHz, AGC locked | -1 | 0 | 1 | dB |
| DVLRFM | record AGC Sensibility | V _{IN} = 170mV _{PP} \pm 3dB @ 1.6MHz | -1 | 0 | 1 | dB |
| RSATFM | Output Stage Resistance | I = 10mA | 7 | 15 | 50 | Ω |
| ATT1 | mute | V _{IN} = 300mV _{PP} @ F = 4MHz | 40 | 60 | | dB |
| RIOUTFM | Impedance on I _{OUTFM} | $\Delta V = 1V$ | 6 | 36 | 72 | k Ω |
| I _{REC+} | CAGC Sink Current | | 50 | 100 | 150 | μA |
| I _{REC-} | CAGC Source Current | | -150 | -100 | -50 | μA |

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ELECTRICAL CHARACTERISTICS ($T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified) (continued)**Record Mode** (continued)

$V_{CC} = 5\text{V}$, $V_{CCFM} = 5\text{V}$, $R_{ADJ} = 22\text{k}\Omega$, $SWR = 5\text{V}$, $CCOM = 470\text{nF}$, $CCOM1 = 470\text{nF}$, $RRCY = 2.2\text{k}\Omega$, $RRCC = 8.2\text{k}\Omega$, $R_{FMIN} = 1.5\text{k}\Omega$, $SWFMH = 5\text{V}$, $SWM = 0\text{V}$ (SP Mode).

Load $10\mu\text{H}/1\text{k}\Omega$ for each simulated head.

Damping network of $1\text{nF}/620\Omega$ connected between each record output and Ground.

| Symbol | Parameter | Test Conditions | Min. | Typ. | Max. | Unit |
|--------|-----------|-----------------|------|------|------|------|
|--------|-----------|-----------------|------|------|------|------|

SWITCHING LEVELS (Video)

| | | | | | | |
|----------|---|-----------------------|-----|------|------|---------------|
| VSWIN1 | SWIN Input Threshold | Selects head H2SP | 0 | | 0.4 | V |
| VSWIN2 | SWIN Input Threshold | Selects head H1SP | 1 | | 2.2 | V |
| VSWIN3 | SWIN Input Threshold | Selects head H1LP | 2.8 | | 4 | V |
| VSWIN4 | SWIN Input Threshold | Selects head H2LP | 4.6 | | 5 | V |
| ISWIN1 | VSWIN = 0V | Input current | -1 | -0.5 | -0.1 | μA |
| ISWIN2 | VSWIN = 1.5V | Input current | 0.1 | 0.4 | 2 | μA |
| ISWIN3 | VSWIN = 3.5V | Input current | 0.1 | 0.4 | 2 | μA |
| ISWIN4 | VSWIN = 5V | Input current | 0.1 | 0.5 | 2 | μA |
| VSWRH | SWR Input Threshold | Selects record mode | 3.5 | | 5 | V |
| VSWRL | SWR Input Threshold | Selects playback mode | 0 | | 1.5 | V |
| ISWRH | VSWR = 5V | Input current | 0 | 0.1 | 5 | μA |
| ISWRL | VSWR = 0V | Input current | -10 | -5 | -0.5 | μA |
| T_{ON} | Switching Delay | Signal appears on CPB | | | 500 | ns |
| T1 | Delay from Playback to Record : Signal Disappears on Pin CPB | | | 1 | | μs |
| T2 | Delay from Record to Playback : Signal Appears on Pin CPB | | | 800 | | μs |
| T3 | Delay from Playback to Record : Signal Appears on Pin I _{OUTSP} or I _{OUTLP} | | | 20 | | μs |
| T4 | Delay from Record to Playback : Signal Disappears on Pin I _{OUTSP} or I _{OUTLP} | | | 1 | | μs |

SWITCHING LEVELS (Video)

| | | | | | | |
|------------|--|------------------------|-----|-----|------|---------------|
| VFMH | SWFMH Input Threshold | | 3.5 | | 5 | V |
| VFML | SWFMH Input Threshold | | 0 | | 1.5 | V |
| T_{ONFM} | Switching Delay | Signal appears on FMPB | | | 500 | ns |
| T1FM | Delay from Playback to Record : Signal Disappears on Pin FMPB | | 0 | | 5 | μs |
| T2FM | Delay from Record to Playback : Signal Appears on Pin FMPB | | | 400 | | μs |
| T3FM | Delay from Playback to Record : Signal Appears on Pin I _{OUTFM} | | | 20 | | μs |
| T4FM | Delay from Record to Playback : Signal Disappears on Pin I _{OUTFM} | | | 1 | | μs |
| ISWFMHH | VSWFMR = 5V | Input current | 0 | 0.1 | 5 | μA |
| ISWFMHL | VSWFMH = 0V | Input current | -10 | -5 | -0.5 | μA |

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INPUTS/OUTPUTS EQUIVALENT INTERNAL DIAGRAMS

Figure 1

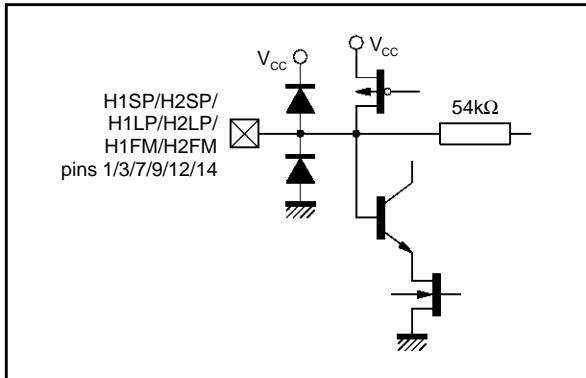


Figure 2

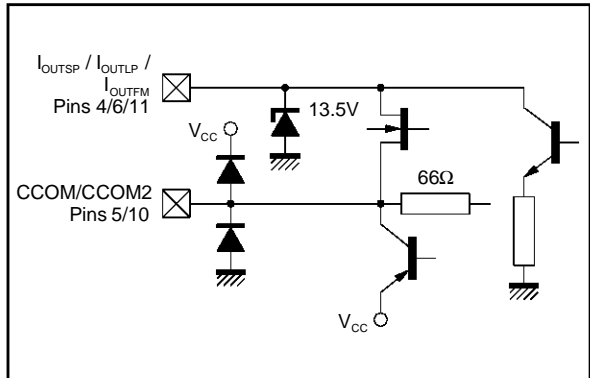


Figure 3

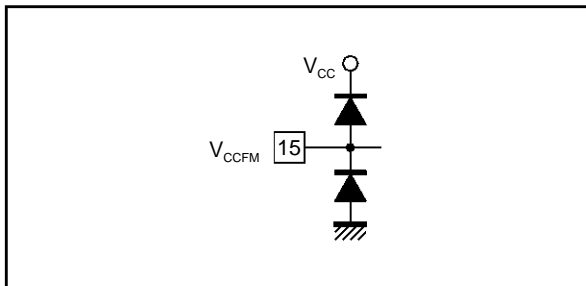


Figure 4

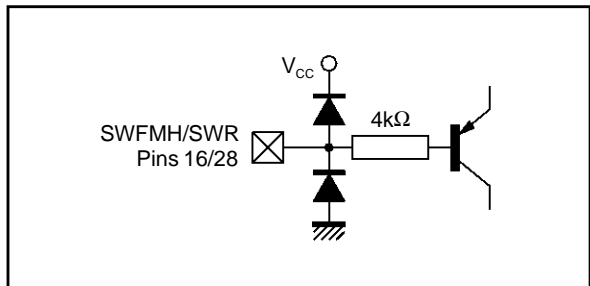


Figure 5

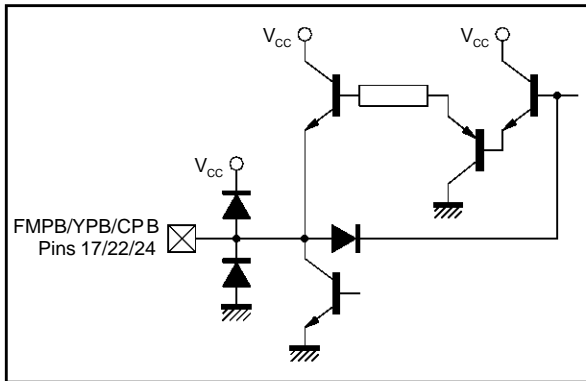
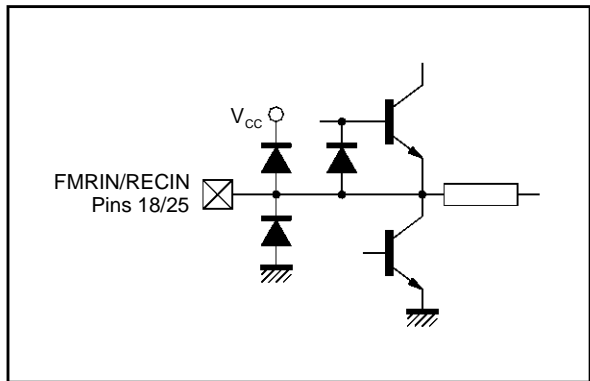
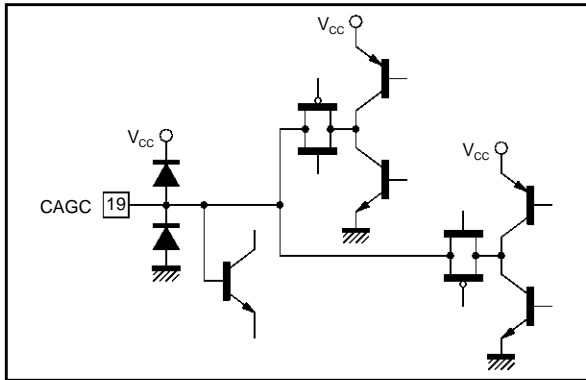


Figure 6



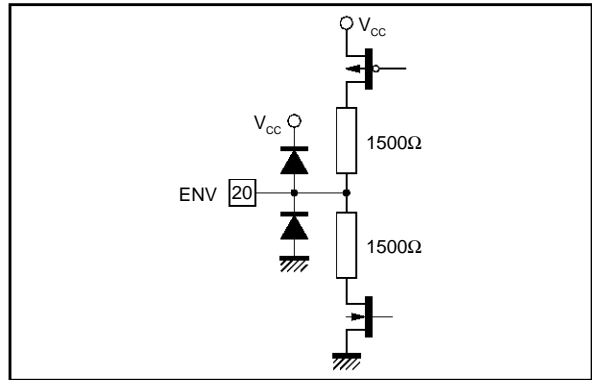
INPUTS/OUTPUTS EQUIVALENT INTERNAL DIAGRAMS (continued)

Figure 7



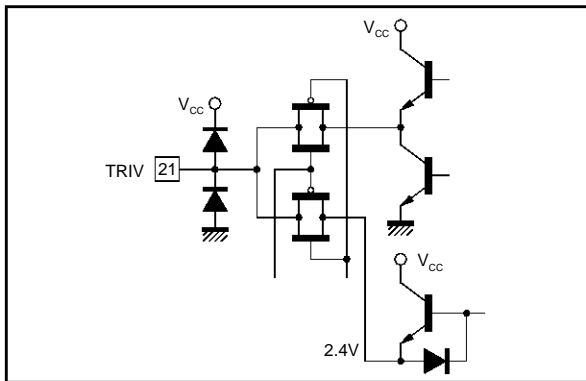
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Figure 8



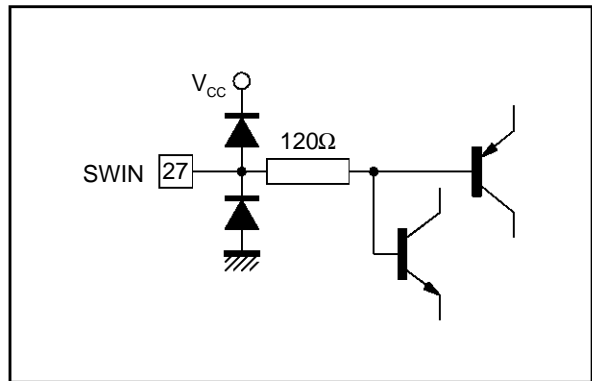
5728-12.EPS

Figure 9



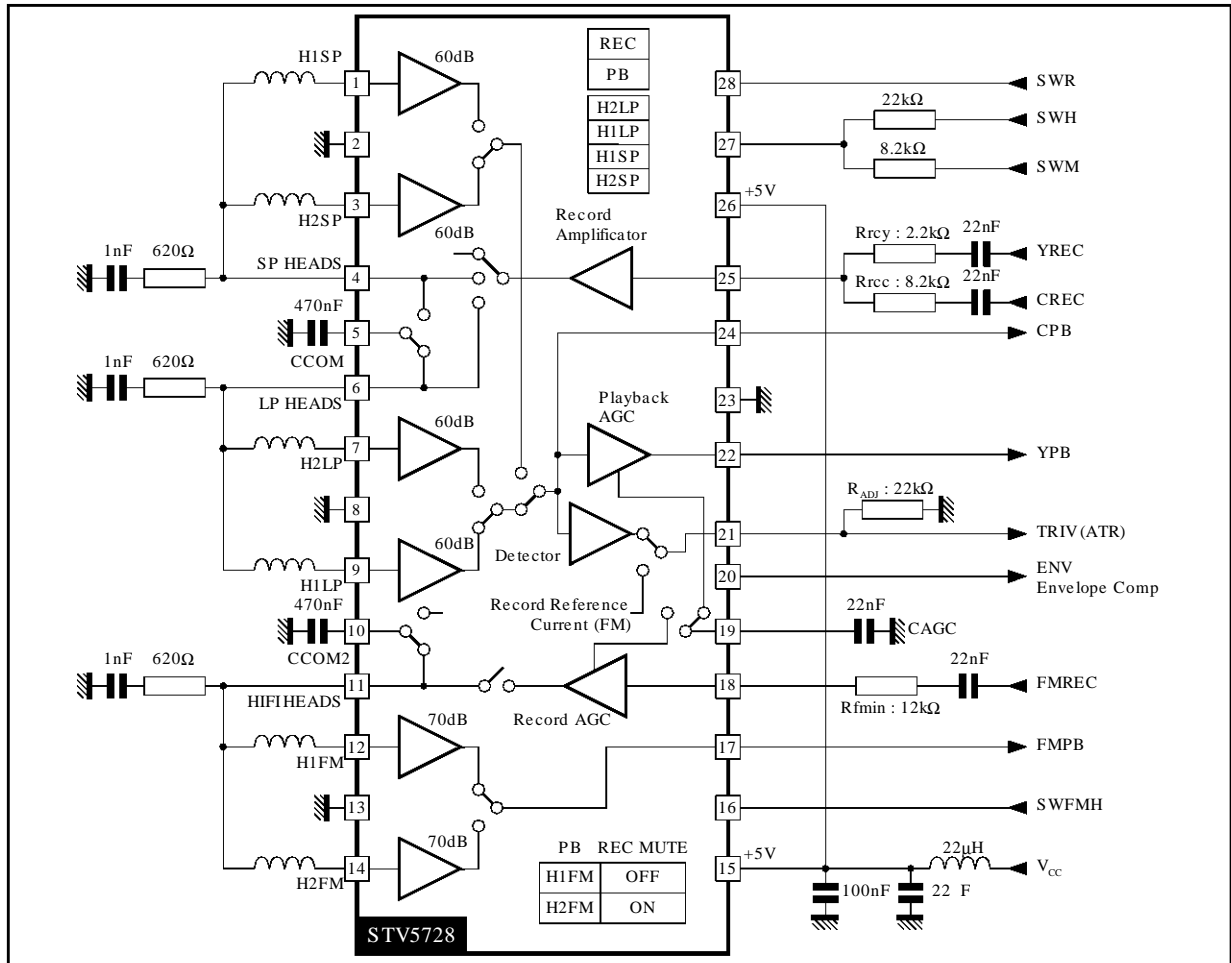
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Figure 10



5728-14.EPS

TYPICAL APPLICATION



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SWITCH TABLE (Video)

| SWR | SWM | SWH | Channel | ENVC |
|---------|-----|-----|---------|-----------------|
| L (PB) | L | L | H2SP | HIGH if LP < SP |
| | | H | H1SP | |
| | H | L | H1LP | LOW if LP > SP |
| | | H | H2LP | |
| H (REC) | L | L | SP | |
| | | H | | |
| | H | L | | |
| | | H | | |

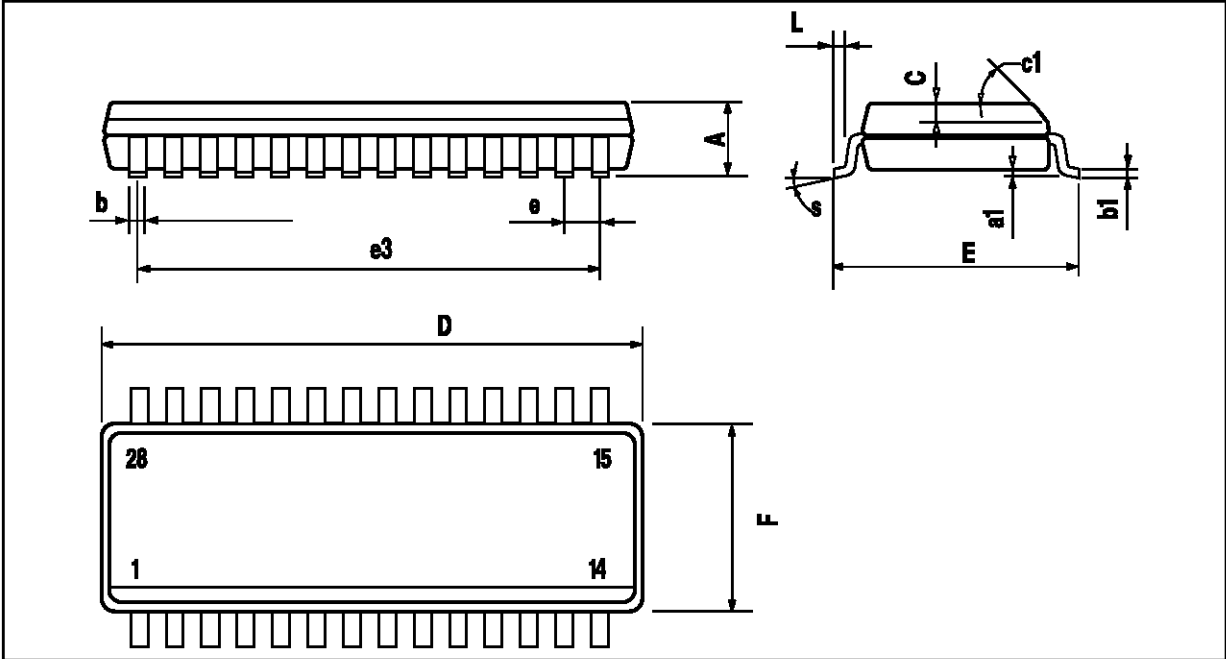
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SWITCH TABLE (FM/HIFI)

| SWR | SWFMH | Channel | Record Mute |
|-----|-------|---------|-------------|
| L | L | H2FM | |
| | H | H1FM | |
| H | L | | ON |
| | H | | OFF |

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PACKAGE MECHANICAL DATA
 28 PINS - PLASTIC MICROPACKAGE (SO)



| Dimensions | Millimeters | | | Inches | | |
|------------|-------------|-------|-------|--------|-------|--------|
| | Min. | Typ. | Max. | Min. | Typ. | Max. |
| A | | | 2.65 | | | 0.104 |
| a1 | 0.1 | | 0.2 | 0.004 | | 0.0078 |
| b | 0.35 | | 0.49 | 0.014 | | 0.019 |
| b1 | 0.23 | | 0.32 | 0.009 | | 0.013 |
| C | | 0.5 | | | 0.020 | |
| c1 | 45° (Typ.) | | | | | |
| D | 17.7 | | 18.1 | 0.697 | | 0.713 |
| E | 10 | | 10.65 | 0.394 | | 0.419 |
| e | | 1.27 | | | 0.050 | |
| e3 | | 16.51 | | | 0.65 | |
| F | 7.4 | | 7.6 | 0.291 | | 0.299 |
| L | 0.4 | | 1.27 | 0.016 | | 0.050 |
| S | 8° (Max.) | | | | | |

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