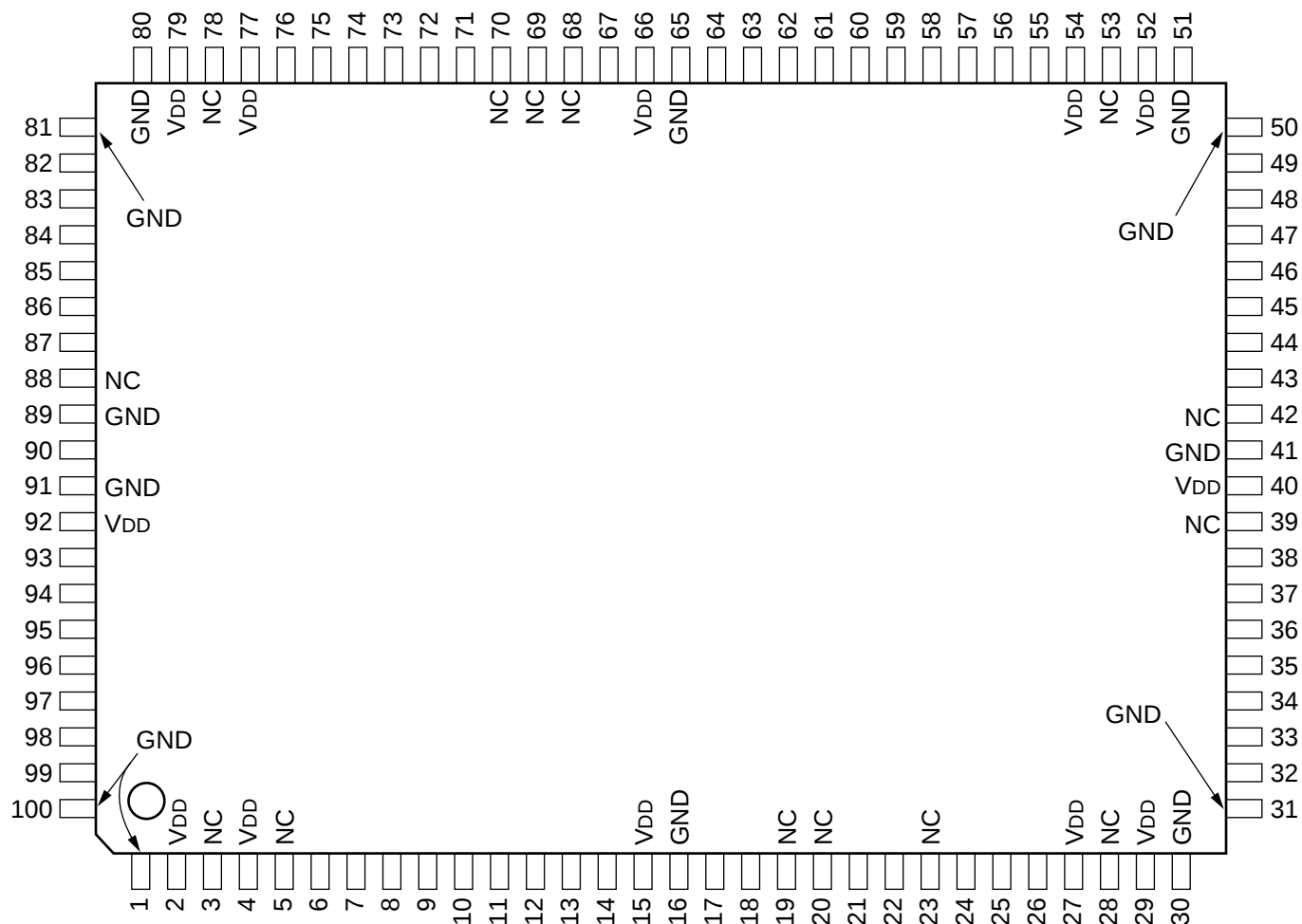


## C-MOS AUDIO TIMING GENERATOR

—TOP VIEW—



| PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL |
|---------|-----|--------|---------|-----|--------|---------|-----|--------|---------|-----|--------|
| 1       | —   | GND    | 26      | I   | T1     | 51      | —   | GND    | 76      | O   | DCK2   |
| 2       | —   | VDD    | 27      | —   | VDD    | 52      | —   | VDD    | 77      | —   | VDD    |
| 3       | —   | NC     | 28      | —   | NC     | 53      | —   | NC     | 78      | —   | NC     |
| 4       | —   | VDD    | 29      | —   | VDD    | 54      | —   | VDD    | 79      | —   | VDD    |
| 5       | —   | NC     | 30      | —   | GND    | 55      | I   | CRN    | 80      | —   | GND    |
| 6       | O   | FA2    | 31      | —   | GND    | 56      | I   | CFPI   | 81      | —   | GND    |
| 7       | O   | FA1    | 32      | O   | DE0    | 57      | I   | SA0    | 82      | O   | HD2    |
| 8       | O   | FA0    | 33      | O   | DE7    | 58      | I   | SA1    | 83      | O   | VD2    |
| 9       | O   | PC2    | 34      | O   | DE8    | 59      | I   | SA2    | 84      | O   | CF2    |
| 10      | O   | PC1    | 35      | O   | FP0    | 60      | I   | SA3    | 85      | O   | HD3    |
| 11      | O   | PC0    | 36      | O   | FP5    | 61      | I   | SCK    | 86      | O   | VD3    |
| 12      | O   | LOCK   | 37      | O   | FP6    | 62      | I   | STB    | 87      | O   | CF3    |
| 13      | O   | FREF   | 38      | O   | FP7    | 63      | I   | SI     | 88      | —   | NC     |
| 14      | O   | FCOMP  | 39      | —   | NC     | 64      | O   | SO     | 89      | —   | GND    |
| 15      | —   | VDD    | 40      | —   | VDD    | 65      | —   | GND    | 90      | I   | CLK    |
| 16      | —   | GND    | 41      | —   | GND    | 66      | —   | VDD    | 91      | —   | GND    |
| 17      | I   | FSCCK  | 42      | —   | NC     | 67      | O   | TO     | 92      | —   | VDD    |
| 18      | I   | FPCK   | 43      | O   | FP8    | 68      | —   | NC     | 93      | O   | DCK4   |
| 19      | —   | NC     | 44      | O   | FS0    | 69      | —   | NC     | 94      | O   | HD4    |
| 20      | —   | NC     | 45      | O   | FS5    | 70      | —   | NC     | 95      | O   | VD4    |
| 21      | I   | ACS    | 46      | O   | FS6    | 71      | O   | HD0    | 96      | O   | CF4    |
| 22      | I   | INCF   | 47      | O   | FS7    | 72      | O   | VD0    | 97      | O   | HD5    |
| 23      | —   | NC     | 48      | O   | FS8    | 73      | O   | FOE1   | 98      | O   | VD5    |
| 24      | I   | T3     | 49      | O   | FS9    | 74      | O   | HD1    | 99      | O   | CF5    |
| 25      | I   | T2     | 50      | —   | GND    | 75      | O   | VD1    | 100     | —   | GND    |

|    |      |       |    |
|----|------|-------|----|
|    |      | HD1   | 74 |
|    |      | VD1   | 75 |
|    |      | FOE1  | 73 |
|    |      | DCK2  | 76 |
|    |      | HD2   | 82 |
|    |      | VD2   | 83 |
| 62 | STB  | CF2   | 84 |
| 61 | SCK  |       |    |
| 63 | SI   | HD3   | 85 |
| 64 | SO   | VD3   | 86 |
|    |      | CF3   | 87 |
| 57 | SA0  |       |    |
| 58 | SA1  | DCK4  | 93 |
| 59 | SA2  | HD4   | 94 |
| 60 | SA3  | VD4   | 95 |
|    |      | CF4   | 96 |
| 55 | CRN  |       |    |
|    |      | HD5   | 97 |
|    |      | VD5   | 98 |
| 90 | CLK  | CF5   | 99 |
| 56 | CFPI | HD0   | 71 |
| 22 | INCF | VD0   | 72 |
|    |      | FA2   | 6  |
| 21 | ACS  | FA1   | 7  |
| 18 | FPCK | FA0   | 8  |
|    |      | DE0   | 32 |
|    |      | DE7   | 33 |
| 26 | T1   | DE8   | 34 |
| 25 | T2   | FP0   | 35 |
| 24 | T3   | FP5   | 36 |
|    |      | FP6   | 37 |
| 9  | PC2  | FP7   | 38 |
| 10 | PC1  | FP8   | 43 |
| 11 | PC0  | FS0   | 44 |
| 67 | TO   | FS5   | 45 |
|    |      | FS6   | 46 |
|    |      | FS7   | 47 |
|    |      | FS8   | 48 |
|    |      | FS9   | 49 |
|    |      | FCOMP | 14 |
| 17 | FSCK | FREF  | 13 |
|    |      | LOCK  | 12 |

**INPUT**

ACS : H: 48 kHz AUDIO L: 44.1 kHz AUDIO  
 CFPI : INPUT CF PULSE  
 CLK : CLOCK  
 CRN : POWER ON RESET  
 FPCK : AUDIO CLOCK (256FS) FOR PROGRAM PLAY  
 FSCK : AUDIO CLOCK (512FS)  
 INCF : CF SIGNAL FOR VD2 REFORMING  
 SA0 – 3 : SERIAL PRESET ADDRESS  
 SCK : SERIAL CLOCK  
 SI : SERIAL INPUT DATA  
 STB : SERIAL START PULSE  
 T1 – T3 : TEST PIN FOR IC

**OUTPUT**

CF2 : CF INFORMATION PULSE OF THE #2 GROUP (PROGRAMABLE)  
 CF3 : CF INFORMATION PULSE OF THE #3 GROUP (PROGRAMABLE)  
 CF4 : CF INFORMATION PULSE OF THE #4 GROUP (PROGRAMABLE)  
 CF5 : CF INFORMATION PULSE OF THE #5 GROUP (PROGRAMABLE)  
 DCK2 : 13.5 MHz CLOCK OF THE #2 GROUP (PROGRAMABLE)  
 DCK4 : 13.5 MHz CLOCK OF THE #4 GROUP (PROGRAMABLE)  
 DE0 – 8 : AUDIO CLOCK FOR PITCH CONTROL  
 FA0 – 2 : AUDIO 5-FIELD SEQ. ID  
 FCOMP : AUDIO CLOCK FOR PLL  
 FOE1 : ODD/EVEN SIGNAL OF THE #1 GROUP (PROGRAMABLE)  
 FP0 – 8 : AUDIO CLOCK FOR PROGRAM PLAY  
 FREF : REFERENCE CLOCK FOR AUDIO PLL  
 FS0 – 9 : AUDIO CLOCK (FS9 : 512FS)  
 HD0 : HD PULSE (UNPROGRAMABLE)  
 HD1 : HD PULSE OF THE #1 GROUP (PROGRAMABLE)  
 HD2 : HD PULSE OF THE #2 GROUP (PROGRAMABLE)  
 HD3 : HD PULSE OF THE #3 GROUP (PROGRAMABLE)  
 HD4 : HD PULSE OF THE #4 GROUP (PROGRAMABLE)  
 HD5 : HD PULSE OF THE #5 GROUP (PROGRAMABLE)  
 LOCK : AUDIO PLL LOCK DET  
 PC0 – 2 : TEST PIN FOR IC  
 SO : SERIAL OUTPUT DATA  
 TO : TEST PIN FOR IC  
 VD0 : VD PULSE (UNPROGRAMABLE)  
 VD1 : VD PULSE OF THE #1 GROUP (PROGRAMABLE)  
 VD2 : VD PULSE OF THE #2 GROUP (PROGRAMABLE)  
 VD3 : VD PULSE OF THE #3 GROUP (PROGRAMABLE)  
 VD4 : VD PULSE OF THE #4 GROUP (PROGRAMABLE)  
 VD5 : VD PULSE OF THE #5 GROUP (PROGRAMABLE)

