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C-MOS 4 : 2 : 2 COMPONENT DIGITAL VIDEO  
PARALLEL INTERFACE ENCODER  
-BOTTOM VIEW-

|    |    |     |       |     |     |     |     |     |     |     |     |    |    |
|----|----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| ○  | ○  | ○   | ○     | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○  | ○  |
| 1  | 2  | 3   | 4     | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13 | 14 |
| ○  | ○  | ○   | ○     | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○  | ○  |
| 52 | 53 | 54  | 55    | 56  | 57  | 58  | 59  | 60  | 61  | 62  | 63  | 64 | 15 |
| ○  | ○  | ○   | ○     | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○  | ○  |
| 51 | 96 | 97  | 98    | 99  | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 65 | 16 |
| ○  | ○  | ○   | ○     | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○  | ○  |
| 50 | 95 | 132 | INDEX |     |     |     |     |     |     |     | 107 | 66 | 17 |
| ○  | ○  | ○   |       |     |     |     |     |     |     |     | ○   | ○  | ○  |
| 49 | 94 | 131 |       |     |     |     |     |     |     |     | 108 | 67 | 18 |
| ○  | ○  | ○   |       |     |     |     |     |     |     |     | ○   | ○  | ○  |
| 48 | 93 | 130 |       |     |     |     |     |     |     |     | 109 | 68 | 19 |
| ○  | ○  | ○   |       |     |     |     |     |     |     |     | ○   | ○  | ○  |
| 47 | 92 | 129 |       |     |     |     |     |     |     |     | 110 | 69 | 20 |
| ○  | ○  | ○   |       |     |     |     |     |     |     |     | ○   | ○  | ○  |
| 46 | 91 | 128 |       |     |     |     |     |     |     |     | 111 | 70 | 21 |
| ○  | ○  | ○   |       |     |     |     |     |     |     |     | ○   | ○  | ○  |
| 45 | 90 | 127 |       |     |     |     |     |     |     |     | 112 | 71 | 22 |
| ○  | ○  | ○   |       |     |     |     |     |     |     |     | ○   | ○  | ○  |
| 44 | 89 | 126 |       |     |     |     |     |     |     |     | 113 | 72 | 23 |
| ○  | ○  | ○   |       |     |     |     |     |     |     |     | ○   | ○  | ○  |
| 43 | 88 | 125 |       |     |     |     |     |     |     |     | 114 | 73 | 24 |
| ○  | ○  | ○   | ○     | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○  | ○  |
| 42 | 87 | 124 | 123   | 122 | 121 | 120 | 119 | 118 | 117 | 116 | 115 | 74 | 25 |
| ○  | ○  | ○   | ○     | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○  | ○  |
| 41 | 86 | 85  | 84    | 83  | 82  | 81  | 80  | 79  | 78  | 77  | 76  | 75 | 26 |
| ○  | ○  | ○   | ○     | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○  | ○  |
| 40 | 39 | 38  | 37    | 36  | 35  | 34  | 33  | 32  | 31  | 30  | 29  | 28 | 27 |

V<sub>DD</sub> = +5V

| PIN NO. | I/O | SIGNAL | PIN NO. | I/O | SIGNAL          | PIN NO. | I/O | SIGNAL          | PIN NO. | I/O | SIGNAL          |
|---------|-----|--------|---------|-----|-----------------|---------|-----|-----------------|---------|-----|-----------------|
| 1       | –   | NC     | 34      | I   | TUC1            | 67      | I   | ANB4            | 100     | O   | ANEH            |
| 2       | I   | MA1    | 35      | I   | TUC2            | 68      | I   | ANB2            | 101     | –   | GND             |
| 3       | I   | CR8    | 36      | I   | INCH            | 69      | I   | ANB0            | 102     | –   | GND             |
| 4       | I   | CR6    | 37      | I   | SLNP            | 70      | I   | VC20            | 103     | O   | MUD0            |
| 5       | I   | CR4    | 38      | I   | SLET            | 71      | I   | VC22            | 104     | O   | MUD1            |
| 6       | I   | CR2    | 39      | I   | VDCS            | 72      | O   | MUD7            | 105     | –   | GND             |
| 7       | I   | CR0    | 40      | I   | COEN            | 73      | O   | MUD8            | 106     | –   | GND             |
| 8       | I   | ANA8   | 41      | I   | LIOF            | 74      | O   | MUD9            | 107     | O   | MUD2            |
| 9       | I   | ANA6   | 42      | I   | Y8              | 75      | –   | GND             | 108     | O   | MUD3            |
| 10      | I   | ANA4   | 43      | I   | Y6              | 76      | I   | TSLF            | 109     | O   | MUD4            |
| 11      | I   | ANA2   | 44      | I   | Y4              | 77      | I   | TSST            | 110     | –   | GND             |
| 12      | I   | ANA0   | 45      | I   | Y2              | 78      | I   | TSRT            | 111     | –   | GND             |
| 13      | I   | ANSL   | 46      | I   | Y0              | 79      | I   | EXTH            | 112     | O   | MUD5            |
| 14      | –   | NC     | 47      | I   | CB8             | 80      | I   | EXTF            | 113     | O   | MUD6            |
| 15      | I   | ANIS   | 48      | I   | CB6             | 81      | I   | INEH            | 114     | –   | V <sub>DD</sub> |
| 16      | I   | ANB9   | 49      | I   | CB4             | 82      | I/O | CM7             | 115     | –   | GND             |
| 17      | I   | ANB7   | 50      | I   | CB2             | 83      | I/O | CM5             | 116     | O   | OC27            |
| 18      | I   | ANB5   | 51      | I   | CB0             | 84      | I/O | CM3             | 117     | I/O | CM9             |
| 19      | I   | ANB3   | 52      | I   | MA2             | 85      | I   | CK27            | 118     | I/O | CM8             |
| 20      | I   | ANB1   | 53      | –   | GND             | 86      | –   | V <sub>DD</sub> | 119     | –   | GND             |
| 21      | I   | VC21   | 54      | I   | CR9             | 87      | I   | Y9              | 120     | –   | GND             |
| 22      | I   | VC23   | 55      | I   | CR7             | 88      | I   | Y7              | 121     | I/O | CM6             |
| 23      | I   | VC10   | 56      | I   | CR5             | 89      | I   | Y5              | 122     | I/O | CM4             |
| 24      | I   | VC11   | 57      | I   | CR3             | 90      | I   | Y3              | 123     | –   | GND             |
| 25      | I   | VC12   | 58      | I   | CR1             | 91      | I   | Y1              | 124     | –   | GND             |
| 26      | I   | VC13   | 59      | I   | ANA9            | 92      | I   | CB9             | 125     | I/O | CM2             |
| 27      | –   | NC     | 60      | I   | ANA7            | 93      | I   | CB7             | 126     | I/O | CM1             |
| 28      | I   | LDAT   | 61      | I   | ANA5            | 94      | I   | CB5             | 127     | I/O | CM0             |
| 29      | I   | TSCK   | 62      | I   | ANA3            | 95      | I   | CB3             | 128     | –   | GND             |
| 30      | I   | TSLD   | 63      | I   | ANA1            | 96      | I   | CB1             | 129     | –   | GND             |
| 31      | I   | TUB1   | 64      | –   | V <sub>DD</sub> | 97      | –   | GND             | 130     | O   | MFP             |
| 32      | I   | TUB2   | 65      | I   | ANB8            | 98      | O   | OC6             | 131     | O   | OC13            |
| 33      | I   | TUS    | 66      | I   | ANB6            | 99      | O   | ANEV            | 132     | –   | V <sub>DD</sub> |

ANA0-ANA9  
 ANB0-ANB9  
 ANIS  
 ANSL  
 CB0-CB9  
 CK27  
 COEN  
 CR0-CR9  
 EXTF  
 EXTH  
 INEH  
 INCH  
 TUB1,YUB2  
 TUS,TUC1,T  
 LDA,T,TSCK,  
 LIOF  
 MA1,MA2  
 SLET  
 SLNP  
 TSFL,TSST,  
 VC10-VC13  
 VC20-VC23  
 VDSC  
 Y0-Y9

|                |                                                        |
|----------------|--------------------------------------------------------|
| ANA0-ANA9      | ; ANCILLARY SIGNAL (13.5MHz 20 BITS OR 27MHz 10 BITS)  |
| ANB0-ANB9      | ; ANCILLARY SIGNAL (13.5MHz 20 BITS)                   |
| ANIS           | ; ANC SIGNAL INSERT SELECTOR                           |
| ANSL           | ; ANC 10 BITS/20 BITS SIGNAL SELECTOR                  |
| CB0-CB9        | ; Cb OR Cb • Cr MPX SIGNAL                             |
| CK27           | ; 27MHz CLOCK                                          |
| COEN           | ; CONNECT WITH "+5V"                                   |
| CR0-CR9        | ; Cr OR Cb • Cr MPX SIGNAL (INPUT CHECK)               |
| EXTF           | ; REFERENCE F                                          |
| EXTH           | ; REFERENCE H                                          |
| INEH           | ; CONNECT WITH "+5V"                                   |
| INCH           | ; CONNECT WITH "+5V"                                   |
| TUB1,YUB2      | ; CONNECT WITH "GND"                                   |
| TUS,TUC1,TUC2  | ; CONNECT WITH "GND"                                   |
| LDAT,TSCK,TSLD | ; FOR TEST                                             |
| LIOF           | ; DATA LIMIT SELECTOR (ON/OFF)                         |
| MA1,MA2        | ; ROUND MODE SELECTOR (ROUND, RAISE, CUT OFF, THROUGH) |
| SLET           | ; DATA SELECTOR (8 BITS OR 10 BITS)                    |
| SLNP           | ; 525 LINE/625 LINE SELECTOR                           |
| TSLF,TSST,TSRT | ; FOR TEST                                             |
| VC10-VC13      | ; 525/60 (FIELD1) V BLANKING CONTROL                   |
| VC20-VC23      | ; 525/60 (FIELD2) V BLANKING CONTROL                   |
| VDCS           | ; CHROMA SIGNAL SELECTOR (Cb • Cr MPX/Cb, Cr)          |
| Y0-Y9          | ; Y SIGNAL                                             |

ANEH  
ANEV  
  
CM0-CM9  
MFP  
MUD0-MUD9  
OC6  
OC13  
OC27

|           |   |                                                                          |
|-----------|---|--------------------------------------------------------------------------|
| ANEH      | : | DATA INTERVAL SIGNAL ("HIGH" AT BETWEEN EAV AND SAV)                     |
| ANEV      | : | DATA VALID SIGNAL<br>("HIGH" AT THE DATA VALID PERIOD IN V BLK INTERVAL) |
| CM0-CM9   | : | F, H COUNTER                                                             |
| MFP       | : | POSITION OF F COUNTER VALUE (MULTIPLEX SIGNAL)                           |
| MUD0-MUD9 | : | MULTIPLEX DATA                                                           |
| OC6       | : | 6.75MHz CLOCK                                                            |
| OC13      | : | 13.5MHz CLOCK                                                            |
| OC27      | : | 27MHz CLOCK                                                              |

