

LINEAR INTEGRATED CIRCUITS

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| <p>NTE843 16-Lead DIP, See Diag. 249 TV Video IF PLL Sync Det, $V_{CC} = 15V$</p> <table border="0"> <tr><td>Limiter Tuning</td><td>1</td><td>16</td><td>AFT Tuning</td></tr> <tr><td>Limiter Tuning</td><td>2</td><td>15</td><td>AFT Tuning</td></tr> <tr><td>GND (V)</td><td>3</td><td>14</td><td>AFT Defeat</td></tr> <tr><td>Video IF Input</td><td>4</td><td>13</td><td>GND (V)</td></tr> <tr><td>APC Filter</td><td>5</td><td>12</td><td>AFT Output</td></tr> <tr><td>VCO Tuning</td><td>6</td><td>11</td><td>Zero-Carrier Bias Adjust</td></tr> <tr><td>VCO Tuning</td><td>7</td><td>10</td><td>Video Output (Negative Going Sync)</td></tr> <tr><td>V (+)</td><td>8</td><td>9</td><td>Sound Take-Off Output</td></tr> </table> | Limiter Tuning | 1 | 16 | AFT Tuning | Limiter Tuning | 2 | 15 | AFT Tuning | GND (V) | 3 | 14 | AFT Defeat | Video IF Input | 4 | 13 | GND (V) | APC Filter | 5 | 12 | AFT Output | VCO Tuning | 6 | 11 | Zero-Carrier Bias Adjust | VCO Tuning | 7 | 10 | Video Output (Negative Going Sync) | V (+) | 8 | 9 | Sound Take-Off Output | <p>NTE844 28-Lead DIP, See Diag. 253 Single Chip TV Chroma/Luminance Processor, $V_{CC} = 14V$</p> <table border="0"> <tr><td>Chroma Output</td><td>1</td><td>28</td><td>Beam Limiter</td></tr> <tr><td>Chroma Control</td><td>2</td><td>27</td><td>Luminance</td></tr> <tr><td>Chroma Input</td><td>3</td><td>26</td><td>Picture Control</td></tr> <tr><td>Overload Filter</td><td>4</td><td>25</td><td>Low Pass Filter</td></tr> <tr><td>ACC, Killer Filter</td><td>5</td><td>24</td><td>Bright Control</td></tr> <tr><td>ACC, Killer Filter</td><td>6</td><td>23</td><td>Vcc</td></tr> <tr><td>Sandcastle Pulse</td><td>7</td><td>22</td><td>Blue</td></tr> <tr><td>GND</td><td>8</td><td>21</td><td>Red</td></tr> <tr><td>APC Filter</td><td>9</td><td>20</td><td>Green</td></tr> <tr><td>APC Filter</td><td>10</td><td>19</td><td>Q Carrier Input</td></tr> <tr><td>OSC Input 90°</td><td>11</td><td>18</td><td>I Carrier Input</td></tr> <tr><td>OSC Input 180°</td><td>12</td><td>17</td><td>Demod Chroma Input</td></tr> <tr><td>OSC Output</td><td>13</td><td>16</td><td>Overload, Flesh Disable</td></tr> <tr><td>Tint Control</td><td>14</td><td>15</td><td>Carrier Output</td></tr> </table> | Chroma Output | 1 | 28 | Beam Limiter | Chroma Control | 2 | 27 | Luminance | Chroma Input | 3 | 26 | Picture Control | Overload Filter | 4 | 25 | Low Pass Filter | ACC, Killer Filter | 5 | 24 | Bright Control | ACC, Killer Filter | 6 | 23 | Vcc | Sandcastle Pulse | 7 | 22 | Blue | GND | 8 | 21 | Red | APC Filter | 9 | 20 | Green | APC Filter | 10 | 19 | Q Carrier Input | OSC Input 90° | 11 | 18 | I Carrier Input | OSC Input 180° | 12 | 17 | Demod Chroma Input | OSC Output | 13 | 16 | Overload, Flesh Disable | Tint Control | 14 | 15 | Carrier Output | <p>NTE845 24-Lead DIP, See Diag. 252 TV Chroma Processor/Demod</p> <table border="0"> <tr><td>OSC Output</td><td>1</td><td>24</td><td>Vcc</td></tr> <tr><td>APC Filter</td><td>2</td><td>23</td><td>Tint Control</td></tr> <tr><td>OSC Input</td><td>3</td><td>22</td><td>Subcarrier Ref Output</td></tr> <tr><td>OSC Input</td><td>4</td><td>21</td><td>Burst Gate Input</td></tr> <tr><td>GND</td><td>5</td><td>20</td><td>Demod Luminance Input</td></tr> <tr><td>ACC Filter</td><td>6</td><td>19</td><td>G Output</td></tr> <tr><td>Chroma Amp Input (1)</td><td>7</td><td>18</td><td>G - Y Subcarrier Input 225°</td></tr> <tr><td>Color Killer</td><td>8</td><td>17</td><td>R Output</td></tr> <tr><td>Chroma Amp Output (1)</td><td>9</td><td>16</td><td>B - Y Subcarrier Input 180°</td></tr> <tr><td>Chroma Amp Input (2)</td><td>10</td><td>15</td><td>B Output</td></tr> <tr><td>Color Level Control</td><td>11</td><td>14</td><td>Demod Chroma Input</td></tr> <tr><td>Chroma Amp Output (2)</td><td>12</td><td>13</td><td>Auto Switch</td></tr> </table> | OSC Output | 1 | 24 | Vcc | APC Filter | 2 | 23 | Tint Control | OSC Input | 3 | 22 | Subcarrier Ref Output | OSC Input | 4 | 21 | Burst Gate Input | GND | 5 | 20 | Demod Luminance Input | ACC Filter | 6 | 19 | G Output | Chroma Amp Input (1) | 7 | 18 | G - Y Subcarrier Input 225° | Color Killer | 8 | 17 | R Output | Chroma Amp Output (1) | 9 | 16 | B - Y Subcarrier Input 180° | Chroma Amp Input (2) | 10 | 15 | B Output | Color Level Control | 11 | 14 | Demod Chroma Input | Chroma Amp Output (2) | 12 | 13 | Auto Switch |
| Limiter Tuning | 1 | 16 | AFT Tuning | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limiter Tuning | 2 | 15 | AFT Tuning | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GND (V) | 3 | 14 | AFT Defeat | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Video IF Input | 4 | 13 | GND (V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APC Filter | 5 | 12 | AFT Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VCO Tuning | 6 | 11 | Zero-Carrier Bias Adjust | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VCO Tuning | 7 | 10 | Video Output (Negative Going Sync) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V (+) | 8 | 9 | Sound Take-Off Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chroma Output | 1 | 28 | Beam Limiter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chroma Control | 2 | 27 | Luminance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chroma Input | 3 | 26 | Picture Control | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Overload Filter | 4 | 25 | Low Pass Filter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ACC, Killer Filter | 5 | 24 | Bright Control | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ACC, Killer Filter | 6 | 23 | Vcc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sandcastle Pulse | 7 | 22 | Blue | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GND | 8 | 21 | Red | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APC Filter | 9 | 20 | Green | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APC Filter | 10 | 19 | Q Carrier Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OSC Input 90° | 11 | 18 | I Carrier Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OSC Input 180° | 12 | 17 | Demod Chroma Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OSC Output | 13 | 16 | Overload, Flesh Disable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tint Control | 14 | 15 | Carrier Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OSC Output | 1 | 24 | Vcc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APC Filter | 2 | 23 | Tint Control | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OSC Input | 3 | 22 | Subcarrier Ref Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OSC Input | 4 | 21 | Burst Gate Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GND | 5 | 20 | Demod Luminance Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ACC Filter | 6 | 19 | G Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chroma Amp Input (1) | 7 | 18 | G - Y Subcarrier Input 225° | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Color Killer | 8 | 17 | R Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chroma Amp Output (1) | 9 | 16 | B - Y Subcarrier Input 180° | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chroma Amp Input (2) | 10 | 15 | B Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Color Level Control | 11 | 14 | Demod Chroma Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chroma Amp Output (2) | 12 | 13 | Auto Switch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>NTE846 18-Lead DIP, See Diag. 287 TV Video Modulator, $V_{CC} = 19V$</p> <table border="0"> <tr><td>Chroma Lead</td><td>1</td><td>18</td><td>Chroma Lag</td></tr> <tr><td>R - Y Input</td><td>2</td><td>17</td><td>Chroma OSC Output</td></tr> <tr><td>Chroma Bias</td><td>3</td><td>16</td><td>Chroma Supply</td></tr> <tr><td>B - Y Input</td><td>4</td><td>15</td><td>Sound Tank</td></tr> <tr><td>GND</td><td>5</td><td>14</td><td>RF Supply</td></tr> <tr><td>Ch B Tank</td><td>6</td><td>13</td><td>Chroma Subcarrier</td></tr> <tr><td>Ch B Tank</td><td>7</td><td>12</td><td>Video Input</td></tr> <tr><td>Ch A Tank</td><td>8</td><td>11</td><td>Ch A Output</td></tr> <tr><td>Ch A Tank</td><td>9</td><td>10</td><td>Ch B Output</td></tr> </table> | Chroma Lead | 1 | 18 | Chroma Lag | R - Y Input | 2 | 17 | Chroma OSC Output | Chroma Bias | 3 | 16 | Chroma Supply | B - Y Input | 4 | 15 | Sound Tank | GND | 5 | 14 | RF Supply | Ch B Tank | 6 | 13 | Chroma Subcarrier | Ch B Tank | 7 | 12 | Video Input | Ch A Tank | 8 | 11 | Ch A Output | Ch A Tank | 9 | 10 | Ch B Output | <p>NTE849 14-Lead DIP, See Diag. 247 TV Horiz/Vert Countdown Digital Sync System, $V_{CC} = 12V$</p> <table border="0"> <tr><td>Vcc</td><td>1</td><td>14</td><td>GND</td></tr> <tr><td>Vertical Height</td><td>2</td><td>13</td><td>Comp Sync Input</td></tr> <tr><td>Ramp Charge Cap</td><td>3</td><td>12</td><td>Vertical Sync Input</td></tr> <tr><td>External Bias Load</td><td>4</td><td>11</td><td>To Horizontal Deflection Circuit</td></tr> <tr><td>Yoke Feedback</td><td>5</td><td>10</td><td>Async Time Constant</td></tr> <tr><td>Vertical Driver</td><td>6</td><td>9</td><td>32 x Horizontal</td></tr> <tr><td>Vertical Blank Output</td><td>7</td><td>8</td><td>Mode Select</td></tr> </table> | Vcc | 1 | 14 | GND | Vertical Height | 2 | 13 | Comp Sync Input | Ramp Charge Cap | 3 | 12 | Vertical Sync Input | External Bias Load | 4 | 11 | To Horizontal Deflection Circuit | Yoke Feedback | 5 | 10 | Async Time Constant | Vertical Driver | 6 | 9 | 32 x Horizontal | Vertical Blank Output | 7 | 8 | Mode Select | <p>NTE850 14-Lead DIP, See Diag. 247 OP Amp/Bandswitch, $V_{CC} = 35V$</p> <table border="0"> <tr><td>OP Amp Output</td><td>1</td><td>14</td><td>Invert OP Amp Input</td></tr> <tr><td>Logic Input AFT Enable</td><td>2</td><td>13</td><td>Non-Invert OP Amp Input</td></tr> <tr><td>AFT Output</td><td>3</td><td>12</td><td>V+</td></tr> <tr><td>AFT Input</td><td>4</td><td>11</td><td>Logic "B" Bandswitch Input</td></tr> <tr><td>GND</td><td>5</td><td>10</td><td>Logic "A" Bandswitch Input</td></tr> <tr><td>Bandswitch Output VHF High Band</td><td>6</td><td>9</td><td>Bandswitch Input UHF</td></tr> <tr><td>Bandswitch Output VHF Low Band</td><td>7</td><td>8</td><td>Bandswitch Input</td></tr> </table> | OP Amp Output | 1 | 14 | Invert OP Amp Input | Logic Input AFT Enable | 2 | 13 | Non-Invert OP Amp Input | AFT Output | 3 | 12 | V+ | AFT Input | 4 | 11 | Logic "B" Bandswitch Input | GND | 5 | 10 | Logic "A" Bandswitch Input | Bandswitch Output VHF High Band | 6 | 9 | Bandswitch Input UHF | Bandswitch Output VHF Low Band | 7 | 8 | Bandswitch Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chroma Lead | 1 | 18 | Chroma Lag | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R - Y Input | 2 | 17 | Chroma OSC Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chroma Bias | 3 | 16 | Chroma Supply | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B - Y Input | 4 | 15 | Sound Tank | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GND | 5 | 14 | RF Supply | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ch B Tank | 6 | 13 | Chroma Subcarrier | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ch B Tank | 7 | 12 | Video Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ch A Tank | 8 | 11 | Ch A Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ch A Tank | 9 | 10 | Ch B Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vcc | 1 | 14 | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vertical Height | 2 | 13 | Comp Sync Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ramp Charge Cap | 3 | 12 | Vertical Sync Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| External Bias Load | 4 | 11 | To Horizontal Deflection Circuit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yoke Feedback | 5 | 10 | Async Time Constant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vertical Driver | 6 | 9 | 32 x Horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vertical Blank Output | 7 | 8 | Mode Select | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OP Amp Output | 1 | 14 | Invert OP Amp Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Logic Input AFT Enable | 2 | 13 | Non-Invert OP Amp Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AFT Output | 3 | 12 | V+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AFT Input | 4 | 11 | Logic "B" Bandswitch Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GND | 5 | 10 | Logic "A" Bandswitch Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bandswitch Output VHF High Band | 6 | 9 | Bandswitch Input UHF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bandswitch Output VHF Low Band | 7 | 8 | Bandswitch Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>NTE851 14-Lead DIP, See Diag. 247 VHF/UHF Prescaler, $V_{CC} = 5.5V$</p> <table border="0"> <tr><td>V (+) 1</td><td>1</td><td>14</td><td>VHF Input</td></tr> <tr><td>V (+) 2</td><td>2</td><td>13</td><td>VHF Input</td></tr> <tr><td>Bandswitch Input</td><td>3</td><td>12</td><td>N.C.</td></tr> <tr><td>Output</td><td>4</td><td>11</td><td>N.C.</td></tr> <tr><td>Output</td><td>5</td><td>10</td><td>UHF Input</td></tr> <tr><td>N.C.</td><td>6</td><td>9</td><td>UHF Input</td></tr> <tr><td>V (-) 1</td><td>7</td><td>8</td><td>V (-) 2</td></tr> </table> | V (+) 1 | 1 | 14 | VHF Input | V (+) 2 | 2 | 13 | VHF Input | Bandswitch Input | 3 | 12 | N.C. | Output | 4 | 11 | N.C. | Output | 5 | 10 | UHF Input | N.C. | 6 | 9 | UHF Input | V (-) 1 | 7 | 8 | V (-) 2 | <p>NTE852 14-Lead DIP, See Diag. 247 Vert/Horiz Processing System, Eliminates Hold Controls, $V_{CC} = 7.5V$</p> <table border="0"> <tr><td>Flyback Sawtooth</td><td>1</td><td>14</td><td>Horizontal Sync</td></tr> <tr><td>Loop Filter</td><td>2</td><td>13</td><td>Burst Gate Output</td></tr> <tr><td>DC Ref</td><td>3</td><td>12</td><td>Vertical Output</td></tr> <tr><td>VCO Output</td><td>4</td><td>11</td><td>Vertical Retrace Timing</td></tr> <tr><td>VCL L 45</td><td>5</td><td>10</td><td>Vertical Sync</td></tr> <tr><td>VCO Input</td><td>6</td><td>9</td><td>V+</td></tr> <tr><td>GND</td><td>7</td><td>8</td><td>Horizontal Output</td></tr> </table> | Flyback Sawtooth | 1 | 14 | Horizontal Sync | Loop Filter | 2 | 13 | Burst Gate Output | DC Ref | 3 | 12 | Vertical Output | VCO Output | 4 | 11 | Vertical Retrace Timing | VCL L 45 | 5 | 10 | Vertical Sync | VCO Input | 6 | 9 | V+ | GND | 7 | 8 | Horizontal Output | <p>NTE853 16-Lead DIP, See Diag. 248 Low Power, Narrow Band, FM IF System, $V_{CC} = 12V$</p> <table border="0"> <tr><td>Crystal OSC</td><td>1</td><td>16</td><td>RF Input</td></tr> <tr><td>Crystal OSC</td><td>2</td><td>15</td><td>GND</td></tr> <tr><td>Mixer Output</td><td>3</td><td>14</td><td>Audio Mute</td></tr> <tr><td>Vcc</td><td>4</td><td>13</td><td>Scan Control</td></tr> <tr><td>Limiter Input</td><td>5</td><td>12</td><td>Squelch Input</td></tr> <tr><td>Decoupling</td><td>6</td><td>11</td><td>Filter Input</td></tr> <tr><td>Limiter Output</td><td>7</td><td>10</td><td>Filter Input</td></tr> <tr><td>Quad Input</td><td>8</td><td>9</td><td>Demodulator Output</td></tr> </table> | Crystal OSC | 1 | 16 | RF Input | Crystal OSC | 2 | 15 | GND | Mixer Output | 3 | 14 | Audio Mute | Vcc | 4 | 13 | Scan Control | Limiter Input | 5 | 12 | Squelch Input | Decoupling | 6 | 11 | Filter Input | Limiter Output | 7 | 10 | Filter Input | Quad Input | 8 | 9 | Demodulator Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V (+) 1 | 1 | 14 | VHF Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V (+) 2 | 2 | 13 | VHF Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bandswitch Input | 3 | 12 | N.C. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Output | 4 | 11 | N.C. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Output | 5 | 10 | UHF Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N.C. | 6 | 9 | UHF Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V (-) 1 | 7 | 8 | V (-) 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flyback Sawtooth | 1 | 14 | Horizontal Sync | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Loop Filter | 2 | 13 | Burst Gate Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC Ref | 3 | 12 | Vertical Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VCO Output | 4 | 11 | Vertical Retrace Timing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VCL L 45 | 5 | 10 | Vertical Sync | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VCO Input | 6 | 9 | V+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GND | 7 | 8 | Horizontal Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crystal OSC | 1 | 16 | RF Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crystal OSC | 2 | 15 | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixer Output | 3 | 14 | Audio Mute | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vcc | 4 | 13 | Scan Control | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limiter Input | 5 | 12 | Squelch Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Decoupling | 6 | 11 | Filter Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limiter Output | 7 | 10 | Filter Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quad Input | 8 | 9 | Demodulator Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>NTE855 14-Lead DIP, See Diag. 247 Color TV Video Monitor, $V_{CC} = 8V$</p> <table border="0"> <tr><td>Clock Output</td><td>1</td><td>14</td><td>RF Tank</td></tr> <tr><td>OSC Input</td><td>2</td><td>13</td><td>RF Tank</td></tr> <tr><td>Duty Cycle (Adjust)</td><td>3</td><td>12</td><td>RF Modulator Output</td></tr> <tr><td>GND</td><td>4</td><td>11</td><td>Vcc</td></tr> <tr><td>Color B Input</td><td>5</td><td>10</td><td>Chrominance Input</td></tr> <tr><td>Color Ref Input</td><td>6</td><td>9</td><td>Luminance Input</td></tr> <tr><td>Color A Input</td><td>7</td><td>8</td><td>Chroma Modulator Output</td></tr> </table> | Clock Output | 1 | 14 | RF Tank | OSC Input | 2 | 13 | RF Tank | Duty Cycle (Adjust) | 3 | 12 | RF Modulator Output | GND | 4 | 11 | Vcc | Color B Input | 5 | 10 | Chrominance Input | Color Ref Input | 6 | 9 | Luminance Input | Color A Input | 7 | 8 | Chroma Modulator Output | <p>NTE856 8-Lead DIP, See Diag. 246 TV Video Modulator, $V_{CC} = 5V$</p> <table border="0"> <tr><td>RF Tank</td><td>1</td><td>8</td><td>N.C.</td></tr> <tr><td>RF Tank</td><td>2</td><td>7</td><td>RF Output</td></tr> <tr><td>GND</td><td>3</td><td>6</td><td>Vcc</td></tr> <tr><td>Video Input</td><td>4</td><td>5</td><td>Sound/Chroma Input</td></tr> </table> | RF Tank | 1 | 8 | N.C. | RF Tank | 2 | 7 | RF Output | GND | 3 | 6 | Vcc | Video Input | 4 | 5 | Sound/Chroma Input | <p>NTE857M 8-Lead DIP, See Diag. 245 NTE857SM (Surface Mount) SOIC-8, See Diag. 550 Low Noise, JFET Input OP Amp, $V_{CC} = \pm 18V$</p> <table border="0"> <tr><td>Offset Null 1</td><td>1</td><td>8</td><td>N.C.</td></tr> <tr><td>Invert Input</td><td>2</td><td>7</td><td>Vcc (+)</td></tr> <tr><td>Non-Invert Input</td><td>3</td><td>6</td><td>Output</td></tr> <tr><td>Vcc (-)</td><td>4</td><td>5</td><td>Offset Null 2</td></tr> </table> | Offset Null 1 | 1 | 8 | N.C. | Invert Input | 2 | 7 | Vcc (+) | Non-Invert Input | 3 | 6 | Output | Vcc (-) | 4 | 5 | Offset Null 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clock Output | 1 | 14 | RF Tank | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OSC Input | 2 | 13 | RF Tank | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duty Cycle (Adjust) | 3 | 12 | RF Modulator Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GND | 4 | 11 | Vcc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Color B Input | 5 | 10 | Chrominance Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Color Ref Input | 6 | 9 | Luminance Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Color A Input | 7 | 8 | Chroma Modulator Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RF Tank | 1 | 8 | N.C. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RF Tank | 2 | 7 | RF Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GND | 3 | 6 | Vcc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Video Input | 4 | 5 | Sound/Chroma Input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Offset Null 1 | 1 | 8 | N.C. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Invert Input | 2 | 7 | Vcc (+) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Non-Invert Input | 3 | 6 | Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vcc (-) | 4 | 5 | Offset Null 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See Diagrams, beginning on Page 1-227