

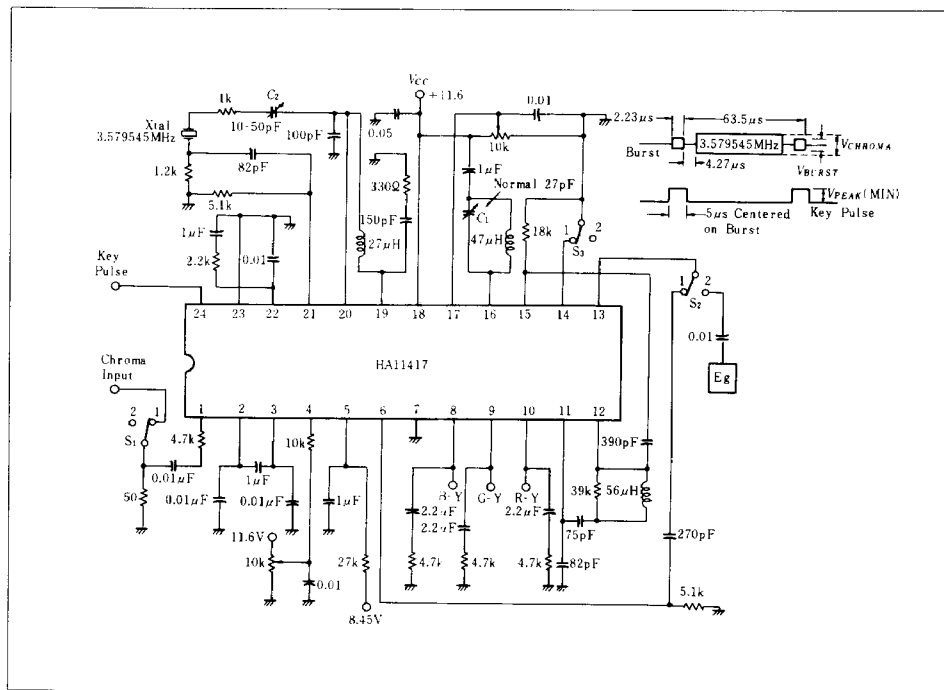


■ ELECTRICAL CHARACTERISTICS ( $V_{CC}=11.6V$ ,  $T_a=25^{\circ}C$ )

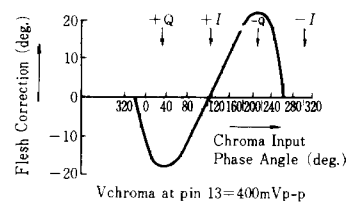
| Item                                       | Symbol             | Test Condition |                |                |                       |                      |                |                     | min.     | typ.     | max. | Unit |                   |
|--------------------------------------------|--------------------|----------------|----------------|----------------|-----------------------|----------------------|----------------|---------------------|----------|----------|------|------|-------------------|
|                                            |                    | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | Chroma                | Burst                | V <sub>4</sub> | V <sub>17</sub>     |          |          |      |      | Test Pin          |
| Supply Current                             | $I_T$              |                |                |                |                       |                      |                |                     | 18       | —        | 42   | —    | mA                |
| R-Y, G-Y, B-Y, Outputs                     | $V_k, V_9, V_{10}$ |                |                |                |                       |                      |                |                     | 8, 9, 10 | —        | 5.3  | —    | V <sub>oc</sub>   |
| Oscillator Reference Inputs                | $V_{11}, V_{12}$   |                |                |                |                       |                      |                |                     | 11, 12   | —        | 3.7  | —    |                   |
| Chroma Demodulator Input                   | $V_{13}$           |                |                |                |                       |                      |                |                     | 13       | —        | 2.9  | —    |                   |
| Chroma Processor Input                     | $V_1$              |                |                |                |                       |                      |                |                     | 1        | —        | 2.2  | —    |                   |
| Pull-In Range*                             | $V_{ix}$           | 2              | 1              | 1              |                       |                      |                |                     | 1        | —        | ±300 | —    |                   |
| Oscillator Level                           | $V_{osc}$          | 2              | 1              | 1              |                       |                      |                | 1.5V                | 12       | —        | 0.6  | —    | V <sub>p-p</sub>  |
| 100 Percent ACC                            | ACC(100%)          | 1              | 1              | 1              | 273mV <sub>p-p</sub>  |                      |                | 11.6V               | 13       | —        | 1    | —    | V <sub>p-p</sub>  |
| Minimum Gain Control                       | $V_{o\ min}$       | 1              | 1              | 1              |                       |                      |                | 6V                  | 13       | —        | 20   | —    | mV <sub>p-p</sub> |
| 50% Gain Control                           | $V_o(50\%)$        | 1              | 1              | 1              |                       |                      |                | 13                  | —        | 50       | —    | % of |                   |
| 200 Percent ACC                            | ACC(200%)          | 1              | 1              | 1              | 546mV <sub>p-p</sub>  |                      |                |                     | 13       | —        | 100  | —    | 100% ACC          |
| 20 Percent ACC                             | ACC(20%)           | 1              | 1              | 1              |                       |                      |                |                     | 13       | —        | 100  | —    | Value             |
| Maximum Kill Output                        | $K(1)$             | 1              | 1              | 1              | 54.6mV <sub>p-p</sub> | 4mV <sub>p-p</sub>   |                |                     | 13       | —        | 20   | —    | mV <sub>p-p</sub> |
| Minimum Unkill Output                      | $K(2)$             | 1              | 1              | 1              |                       |                      |                | 30mV <sub>p-p</sub> |          |          | 13   | —    | 400               |
| Overload Detector (OLD)                    | $O_v$              | 1              | 1              | 2              | 546mV <sub>p-p</sub>  |                      |                |                     | 13       | —        | 1    | —    | V <sub>p-p</sub>  |
| R-Y Sensitivity (Eg=282mV <sub>p-p</sub> ) | $V_{R-Y}$          | 1              | 2              | 1              | 0                     | 273mV <sub>p-p</sub> | 1.5V           | 7V                  | 10       | —        | 0.8  | —    | V <sub>p-p</sub>  |
| B-Y/R-Y**                                  | B-Y/R-Y            | 1              | 2              | 1              |                       |                      |                |                     | 8        | —        | 120  | —    | %                 |
| G-Y/R-Y**                                  | G-Y/R-Y            | 1              | 2              | 1              |                       |                      |                |                     | 9        | —        | 33   | —    | %                 |
| Max. R-Y Output                            | $R-Y_{max}$        | 1              | 2              | 1              |                       |                      |                |                     | 10       | —        | 3    | —    | V <sub>p-p</sub>  |
| Minimum Tint Control Range                 | $\theta_{TINT}$    | 1              | 1              | 1              |                       |                      |                |                     | 13       | 0V→11.6V | —    | 80   | —                 |

\* : Tune C<sub>2</sub> to 3,579,845Hz with S<sub>1</sub> in position 2. Put S<sub>1</sub> in position 1, and check for pull in. Repeat for frequency tuned to 3,579,245Hz. For other tests, frequency tuned to 3,579,545 ±10Hz.  
 \*\* : All input levels up to 2V<sub>p-p</sub>.

■ TEST CIRCUIT



“FLESH” CORRECTION OF OSCILLATOR PHASE ANGLE AS A FUNCTION OF CHROMA INPUT PHASE ANGLE



Note : Tint control adjusted so that with a+I signal into pin 1, the oscillator at pin 12 and the chroma at pin 13 are in phase.

