

TOSHIBA BIPOLAR LINEAR INTEGRATED CIRCUIT SILICON MONOLITHIC

TA8725AN

1CHIP COR NTSC CTV

The TA8725AN combines all the functions required for an NTSC CTV system in a 56-lead, dual-in-line shrink-type plastic package.

This IC includes PLL type PIF/SIF circuits, video/chroma/deflection circuits and OSD interfaces.

FEATURES

PIF stage

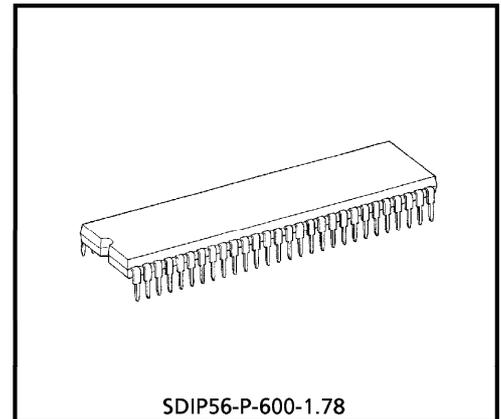
- Split carrier PLL type PIF
- High speed 3-stage variable gain PIF amplifier with dual time constants (Peak AGC)
- Single-end AFT output with defeat function
- RF AGC output (Reverse AGC)
- Sync. negative detected video output
- Internal black/white noise inverter with EIA decoder SW (for IS-15)

SIF stage

- Split carrier SIF
- 20dB SIF AGC
- Quadrature FM detector circuit with sound mute function

Video stage

- Black expander
- Variable DC restoration ratio
- Built-in video delay-line with 3.58MHz trap
- Picture sharpness with internal delay-line (160ns)
- Contrast control with uni-color function
- Brightness control



Weight : 5.55g (Typ.)

Chroma stage

- Built-in take off or 3.58MHz Band-pass filters can be selected.
- Built-in ACC and killer filters
- Color control
- Tint control
- Color differential outputs
- Filter automatic tuning

Detection stage

- Adjustment-free horizontal and vertical count down system
- Built-in vertical integral and V. sepa. circuit
- Vertical drive pulse output for TA8445K
- X-ray protect circuit

OSD interface stage

- R, G and B OSD input
- Fast-blanking SW input
- OSC brightness control

BLOCK DIAGRAM

