Ordering number: EN 5006

Thick Film Hybrid IC

SANYO

No. 5006

STK390-120

1-Channel + Supply Switching Convergence Correction Circuit (I_C max = 4A)

Overview

The STK390-120 is a high-accuracy convergence correction circuit hybrid IC designed to complement the advances in modern high-resolution video projectors and CRT displays. It incorporates a convergence circuit that operates at high frequency with a corresponding high slew rate, without the increase in power dissipation and mounting space that discrete devices would entail. It also features a built-in supply switching circuit for high efficiency.

Applications

- Video projectors
- Ultrahigh definition CRT displays

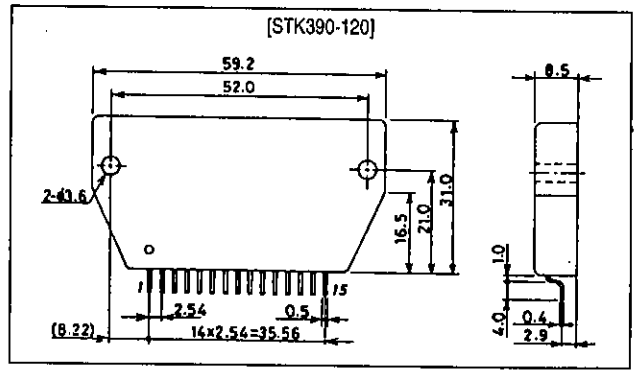
Features

- High absolute maximum supply voltage (V_{CC} max = ±44V)
- Low thermal resistance (θj-c = 2.7°C/W)
- High temperature stability (strengthened idling current temperature compensation)
- Reduced correction coil inductance to improve stability (over the range $f_H \leq 85$kHz)
- Supply switching circuit built-in to enable large-scale decreases in power dissipation
- Improved convergence characteristics for CRT displays

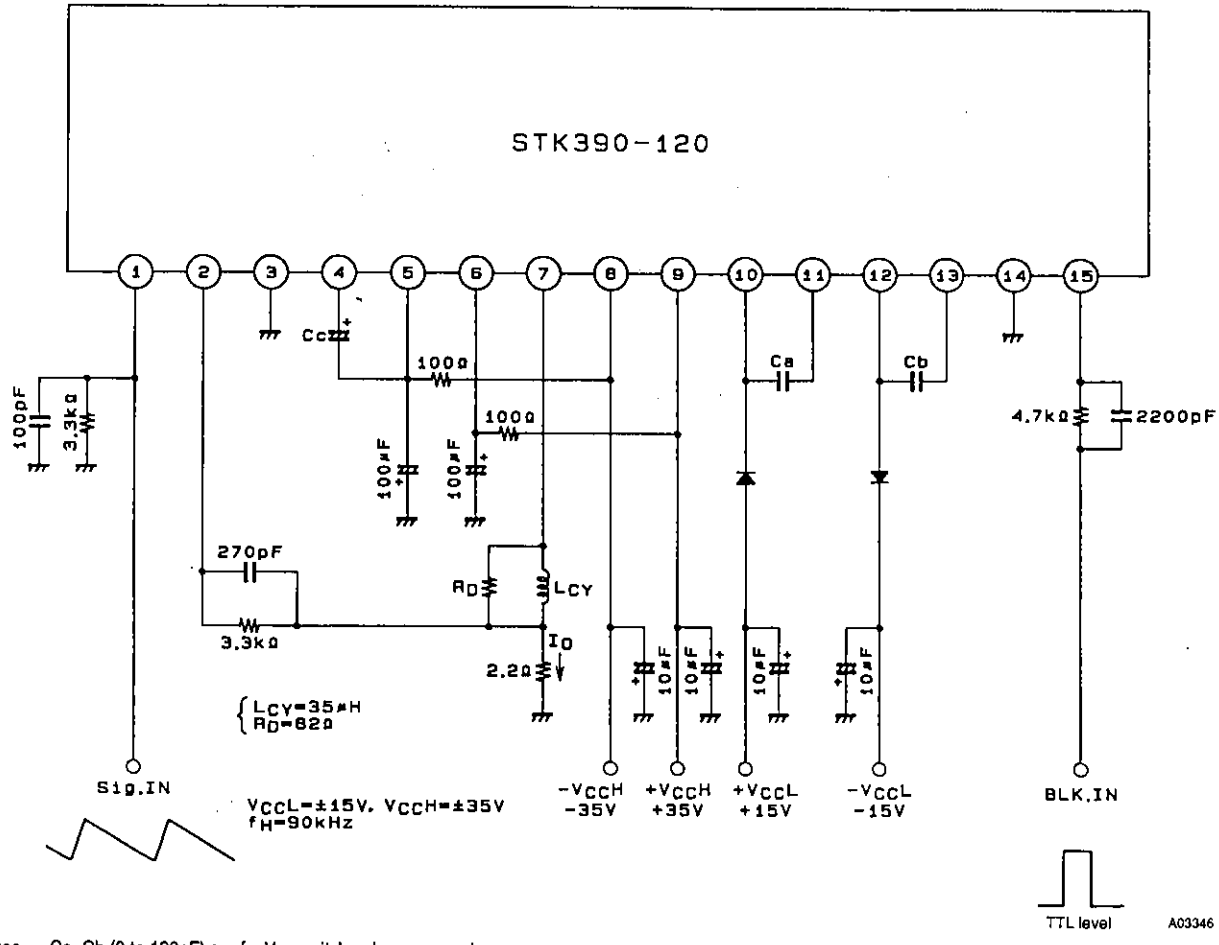
Package Dimensions

unit: mm

4151



Sample Application Circuit



Notes. Ca, Cb (0 to 120pF) are for V_{CC} switch noise suppression.
Cc (47 to 220μF) is for supply switch ON shock noise suppression.