

SL 952

UHF PRESCALER AMPLIFIER

The SL952 amplifier has been designed to drive the prescaler (SP4020, CT1110 etc) in a frequency synthesis system directly from the tuner's local oscillator.

It features a differential output to reduce local oscillator radiation, and a differential input, which may be used to couple the outputs from a VHF and a UHF tuner (see Fig. 3).

The device operates from a single 5V supply with a minimal number of external components and is encapsulated in a 14 lead DIL package.

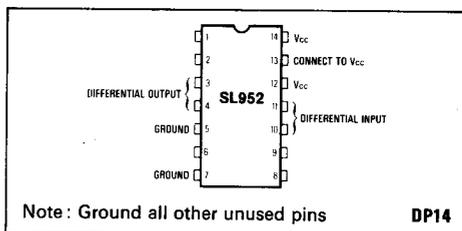


Fig. 1 Pin connections

FEATURES

- Low Cost
- High Gain
- Minimal External Component Count
- Good Limiting Characteristics
- 1GHz Response
- 5V Supply

ABSOLUTE MAXIMUM RATINGS

V_{cc} +10V
Ambient temperature 0°C to +65°C
Storage temperature -55°C to +125°C

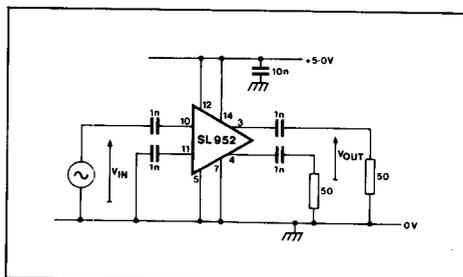


Fig. 2 Test circuit

ELECTRICAL CHARACTERISTICS

Test conditions (unless otherwise stated):
V_{cc} = 5.0V
T_{AMB} = +25°C

Characteristic	Value			Units	Conditions
	Min.	Typ.	Max.		
Supply voltage	4.75	5.00	5.50	V	950MHz 100MHz 500MHz 950MHz
Supply current		70	90	mA	
DC output level		3.2		V	
Output offset		100	600	mV	
Maximum differential output swing	600			mV _{p-p}	
Differential voltage gain	30	35		dB	
Differential voltage gain	30	35		dB	
Differential voltage gain	15	26		dB	

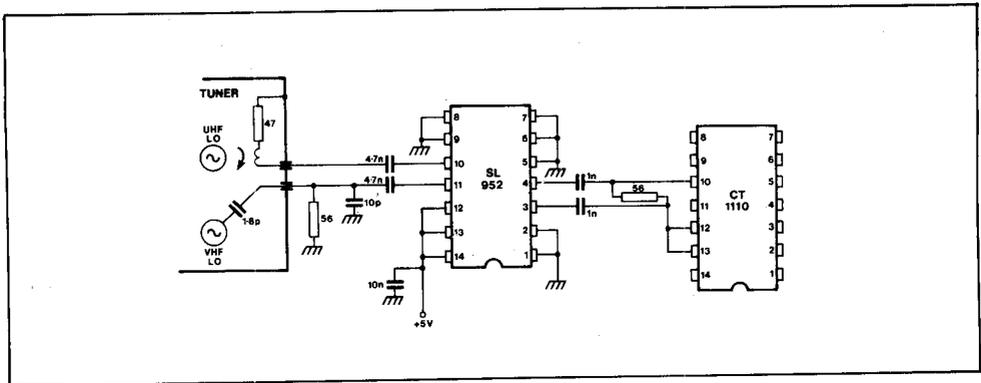


Fig. 3 Typical application for TV frequency synthesis