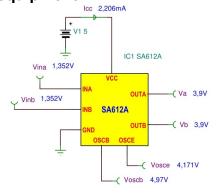
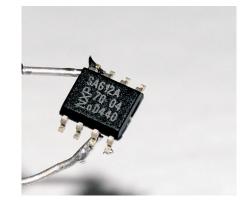
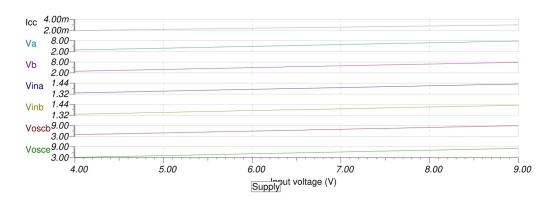
SA612A Double-balanced mixer and oscillator Macro Model

The low power consumption makes the SA612A excellent for battery-operated

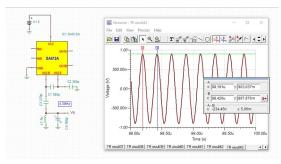
equipment.

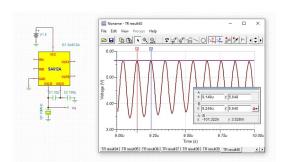






Oscillator circuits





18m v 58ns

The values of those capacitors should be approximately:

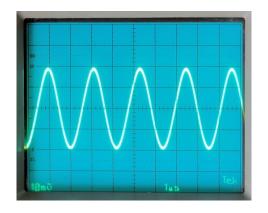
Basic Colpitts 10MHz crystal oscillator. The feedback network consists of a ca-

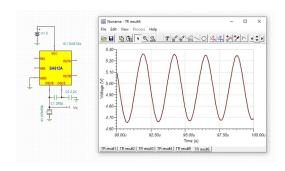
pacitor voltage divider (C1/C2).

$$C1 = \frac{100}{\sqrt{f}(MHz)}$$
 $C2 = \frac{1000}{f(MHz)}$ [pF]

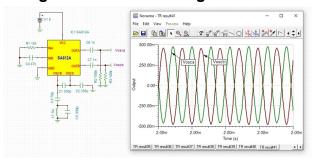
1 Zabb Csaba

Ceramic resonator oscillator (455kHz):



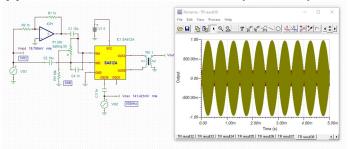


Using the SA612A as a Signal Generator:



Place a 10kohm resistor between pin 1 and ground, while bypassing pin 2 to ground. The output signal is taken from either pin 4 or 5 through another capacitor.

Double-sideband suppressed-carrier transmission (DSB-SC):



Amplitude modulation (AM):

