Signal generator

Transmit transducer

Receive transducer

Ref. input is where timing capacitor connection would normally go: Pin 6.

VCO

Receive transducer

Transmit transducer

ULTRA-MINIATURE
Lock-in Amplifier
for wearable computing + H.I.

NE567 or
LM567 "tone decoder"

Buffer and gain stages (e.g. TL974)

Pin 3 should bias itself to 2.039 volts DC

RL=9212 ohms pulls pin 1 down to 2.5 volts.

20k ≤ R ≤ 2k

53.4% R

46.6% R

Signal generator

RL=9212 ohms pulls pin 1 down to 2.5 volts.

Pin 3 should bias itself to 2.039 volts DC