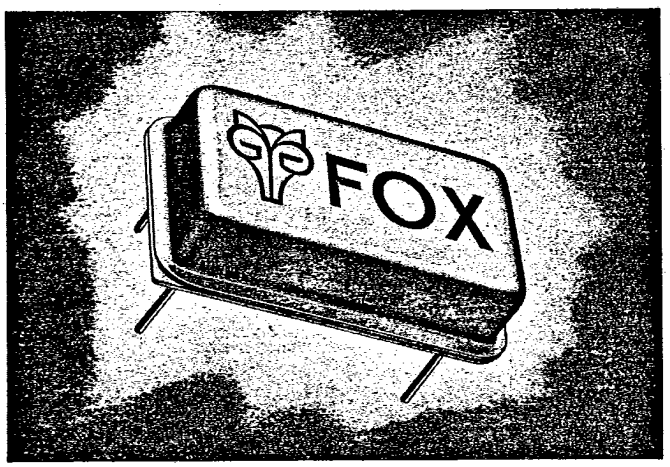
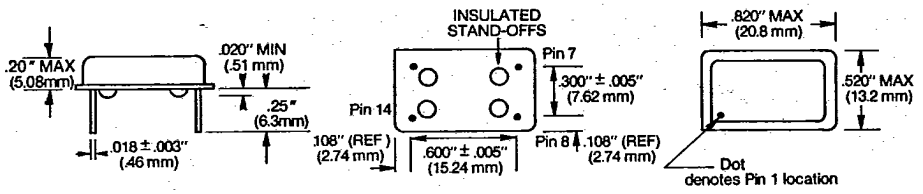
F5C-S4 / DUAL PHASE HIGH SPEED CMOS OSCILLATOR



The F5C-S4 Oscillator features two outputs, one approximately 180° out of phase of the other. This device is perfect for driving microprocessors which require a two phase clock source.

The FOX F5C-S4 Dual Phase Oscillators are compatible with high speed CMOS logic. The low current drain of these oscillators makes them well suited for low power CMOS applications.

The FOX F5C-S4 offers a full resistance welded hermetic seal to provide excellent resistance to extremes of heat/humidity. With pin 7 case ground, the all metal package also offers improved shielding to minimize RF radiation, helping to meet FCC EMI specifications. The oscillator can be soldered in standard wave-line operations without damage. Insulated stand-offs permit proper defluxing, and the F5C-S4 can also be plugged into a DIP socket.



Pin Connection
#1 ø 2 Out #8 ø 1 Out
#7 GND #14 VCC (+5 VDC)

FEATURES

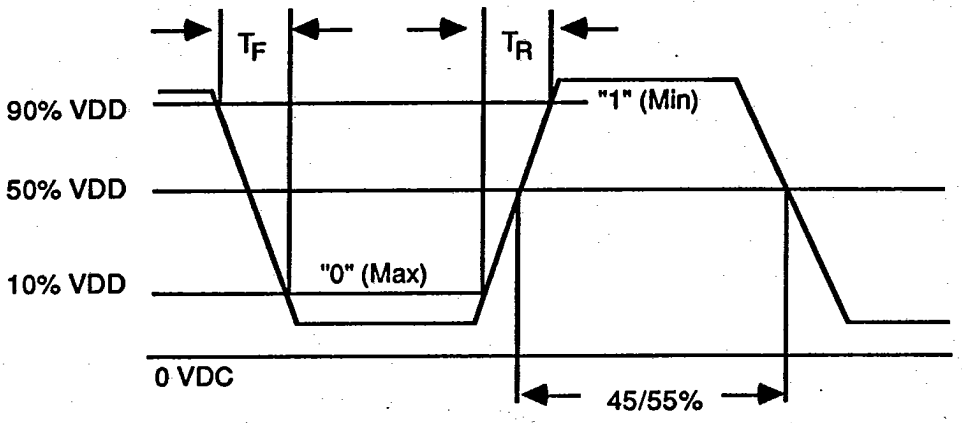
- Rugged Resistance Weld
- Low Profile
- Low Power Consumption
- Superior Quality
- Surface Mount Option
- Stainless Steel Cover

SPECIFICATIONS

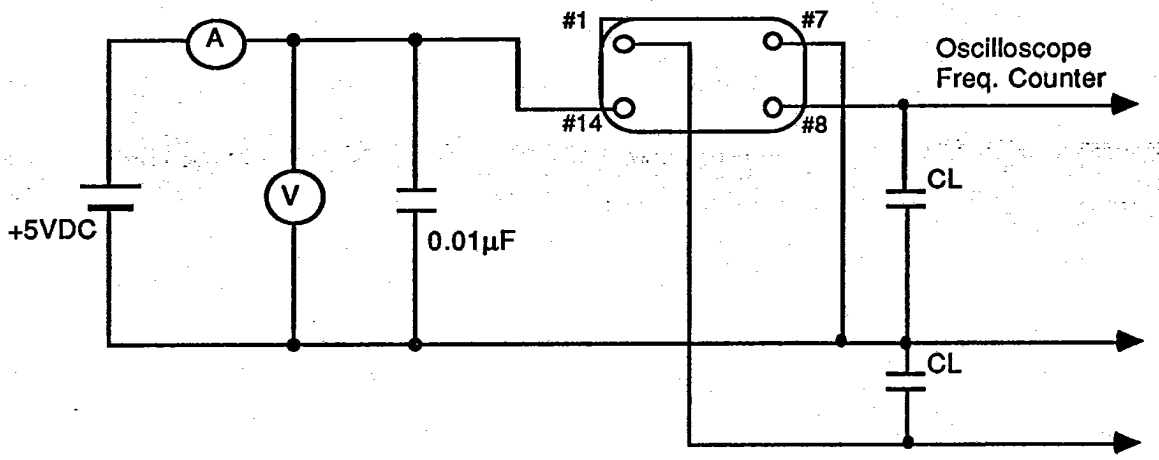
Frequency Range	4 MHz -25 MHz
Frequency Stability *	±0.01%
Operating Temperature Range	-10°C to +70°C
Storage Temperature Range	-55°C to +125°C
Input Voltage	5 VDC ±10%
Input Current	6 mA (TYP), 12 mA (MAX) - 4.000 MHz - 20.999 MHz 8 mA (TYP), 20 mA (MAX) - 21.000 MHz - 25.000 MHz
Symmetry	45/55% (MAX)
Rise/Fall Time (0.5 V to 4.5 VDC)	5 nS (TYP), 10 nS (MAX)
Delay Time (TD) @ 50% Ø1 to Ø2	5 nS (TYP), 10 nS (MAX)
Start-up Time	5 mS (MAX)
Logic '0' Level	0.5 V (MAX)
Logic '1' Level	4.5 V (MIN)
Output Load	15 pF (TYP)
Shock	1000 G's, 0.35 mS, 1/2 Sine Wave, 3 Shocks each plane
Vibration	10-55Hz, 0.060" D.A., 55-2000Hz, 35 G's, Duration Time 12 Hrs
Humidity	85% Relative Humidity, 85°C, 250 Hrs
Hermetic Seal	Leak Rate less than 2 x 10^{-8} Atmos. CC/sec of Helium

* Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration.
All specifications subject to change without notice.

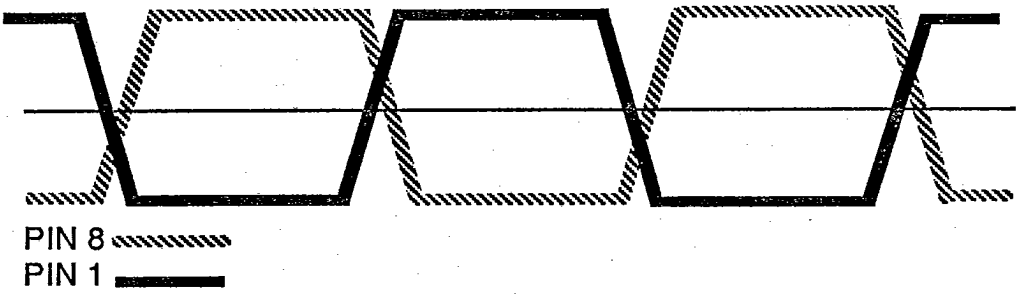
OSCILLATOR WAVE SHAPE



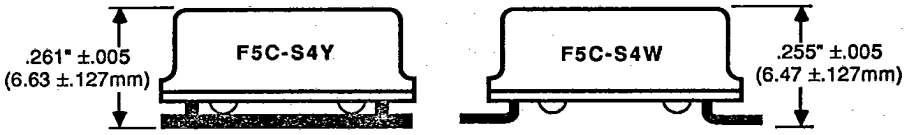
CLOCK OSCILLATOR TEST CIRCUIT



PHASE RELATIONSHIP BETWEEN PIN 8 AND PIN 1



SURFACE MOUNT CAPABILITY



Note: This product employs C-MOS circuitry. Keep away from static electricity.
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