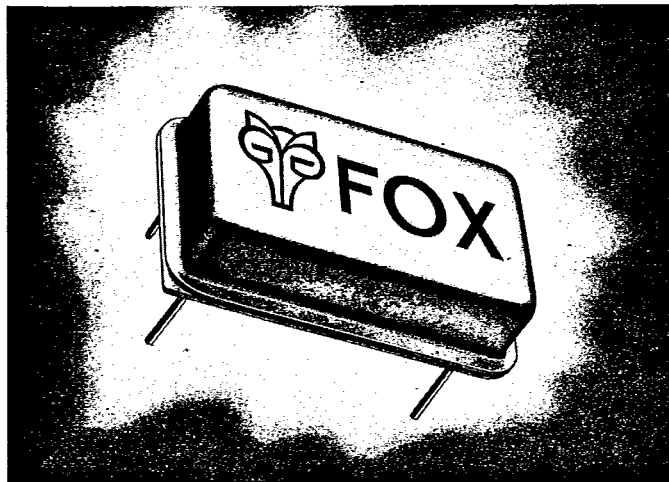


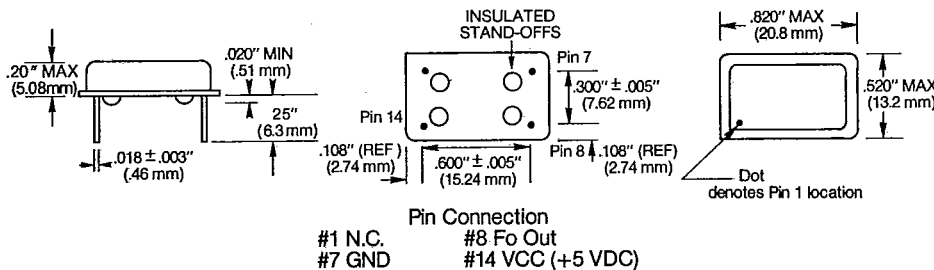


F5C / HIGH SPEED CMOS OSCILLATOR



The FOX F5C is a hybrid clock oscillator capable of driving High Speed CMOS circuitry and up to 10 LS TTL loads. The F5C can drive capacitive loads as high as 50 pF. The low current drain, with 20 mA maximum input current at 25 MHz, makes them well suited for low power CMOS applications.

The FOX F5C 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 de-fluxing, and the F5C can also be plugged into a DIP socket. The F5C lets you use standard logic boards with no loss of spacing. The F5C is also compatible with Motorola's RASCO Series Oscillators.



FEATURES

- Rugged Resistance Weld Package
- Low Profile
- Low Power Consumption
- Superior Quality
- Thick Film Technology
- Motorola Rasco Compatible
- Stainless Steel Cover
- Surface Mount Option

SPECIFICATIONS

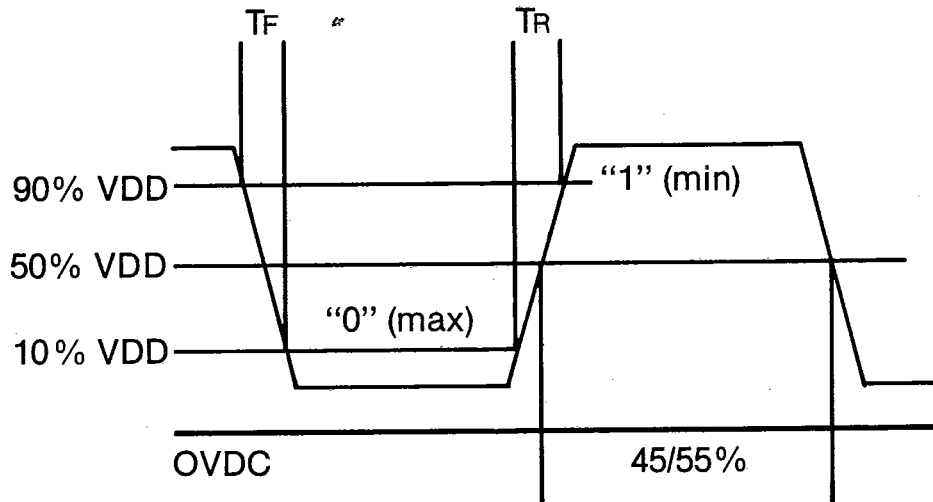
Frequency Range	4.000 MHz to 50.000 MHz
Frequency Stability*	± 100 PPM (MAX) ± 0.01%, ± 0.005%
Operating Temperature Range	- 10°C to + 70°C
Storage Temperature Range	- 55°C to + 125°C
Input Voltage	+ 5.0 VDC ± 0.5 V
Input Current	6 mA (TYP), 12 mA (MAX) — 4.000 MHz - 20.999 MHz 8 mA (TYP), 20 mA (MAX) — 21.000 MHz - 25.000 MHz
Symmetry	45/55% (MAX)
Rise & Fall Time (0.5 V - 4.5 VDC)	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 CL	15 pF (TYP)
Shock	1000 G's, 0.35 millise, 1/2 Sine Wave, 3 Shocks each plane
Vibration	10-55 Hz, 0.060" D.A., 55-2000 Hz, 35 G's, Duration time 12 Hours
Humidity	85% Relative Humidity, 85°C, 250 Hours
Hermetic Seal	Leak Rate Less than 2 × 10 E-8 atmos. CC/sec of Helium

*Inclusive of calibration tolerance @ 25°C, operating temperature range, input voltage change, load change, aging, shock, and vibration.

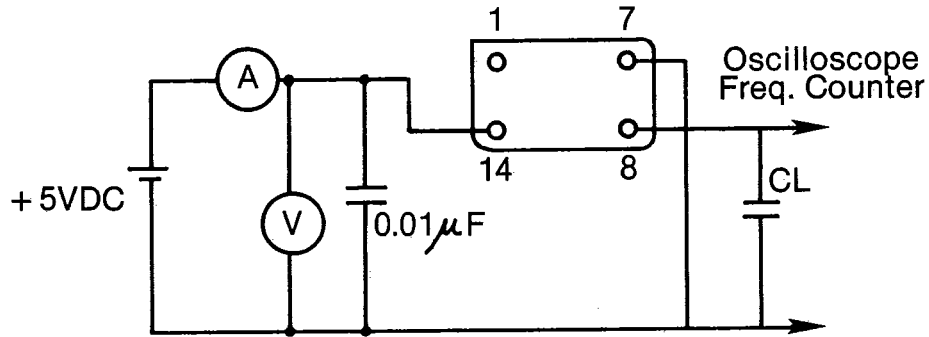
All specifications subject to change without notice.



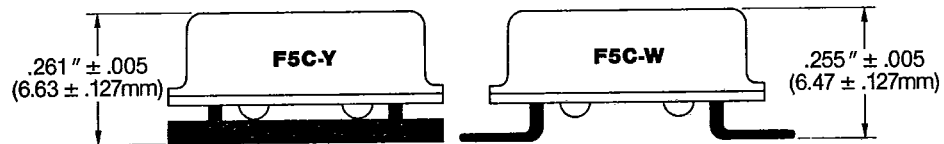
OSCILLATOR WAVE SHAPE



CLOCK OSCILLATOR TEST CIRCUIT



SURFACE MOUNT CAPABILITY



NOTE: This product employs C-MOS Circuitry. Keep away from static electricity.
All specifications subject to change without notice.