

# HCMOS OSCILLATOR F5C

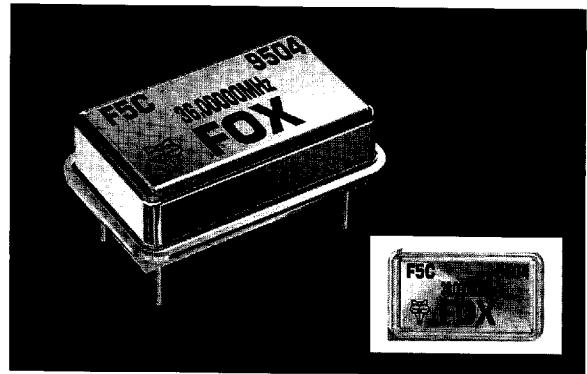
The F5C is a hybrid clock oscillator capable of driving HCMOS circuitry and up to 10 LS-TTL loads. The low current drain makes the part well suited for low power HCMOS applications. The package is all metal with pin 7 as case ground which provides shielding to help minimize EMI radiation.

## FEATURES

- 15pF HCMOS Load
- 10 LSTTL Fanout
- Low Power Consumption
- Rugged Resistance Weld

### • PART NUMBER SELECTION

| Frequency Stability | Part Number |
|---------------------|-------------|
| ±100PPM             | F5C         |
| ±50PPM              | F6C         |
| ±25PPM              | F7C         |



Actual Size

OSCILLATORS

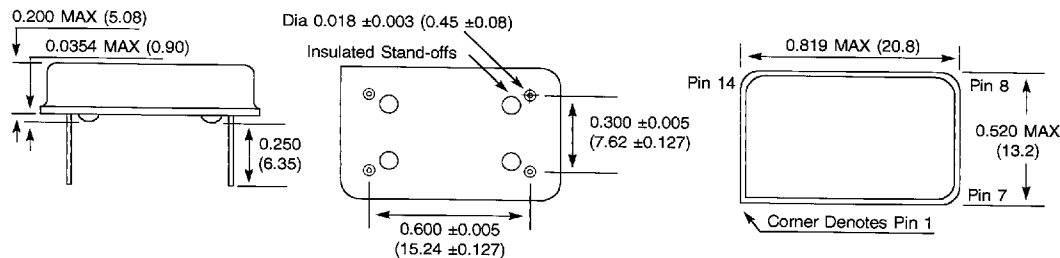
## • ELECTRICAL CHARACTERISTICS (Ta = 25°C, VDD = 5.0V, CL = 15pF)

| PARAMETERS           | FREQUENCY RANGE  | CONDITIONS       | MIN   | MAX    | UNITS |
|----------------------|------------------|------------------|-------|--------|-------|
| Frequency Range (Fo) |                  |                  | 4.000 | 50.000 | MHz   |
| Frequency Stability  | 4.000 ~ 50.000   | All Conditions * | -100  | +100   | PPM   |
| Temperature          | 4.000 ~ 50.000   |                  |       |        |       |
| Operating (TOPR)     |                  |                  | -10   | +70    | °C    |
| Storage (TSTG)       |                  |                  | -55   | +125   |       |
| Supply Voltage (VDD) | 4.000 ~ 50.000   |                  | +4.5  | +5.5   | V     |
| Input Current (IDD)  | 4.000 ~ 25.000   |                  |       | 13     | mA    |
|                      | 25.000+ ~ 50.000 |                  |       | 30     |       |
| Output Symmetry      |                  | 2.5V             | 45    | 55     | %     |
| Rise Time (TR)       | 4.000 ~ 50.000   | 0.5V ~ 4.5V      |       | 6      | nS    |
| Fall Time (TF)       | 4.000 ~ 50.000   | 4.5V ~ 0.5V      |       | 6      |       |
| Output Voltage (VOL) | 4.000 ~ 50.000   | IOL = 4 mA       |       | 0.5    | V     |
| (VOH)                |                  | IOH = -4 mA      | 4.5   |        |       |
| Output Current (IOL) | 4.000 ~ 50.000   | VOL = 0.5 V      |       | 4      | mA    |
| (IOH)                |                  | VOH = 4.5 V      |       | -4     |       |
| Output Load          | 4.000 ~ 50.000   | TTL              |       | 10     | LSTTL |
|                      |                  | HCMOS            |       | 15     | pF    |
| Start-up Time (Ts)   | 4.000 ~ 50.000   |                  |       | 10     | mS    |

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

See page 33 for environmental/mechanical specifications, test circuits, and output waveform.

All specifications subject to change without notice. Rev. 10/1/96



**Pin Connections**  
#1 N.C. #8 Output  
#7 GND (Case) #14 +5VDC

Inch dimensions shall govern.  
All dimensions are in inches & parenthetically in millimeters.

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