30th Anniversary Issue

FOX ELECTRONICS

# Frequency Control Solutions

## SHORTFORM CATALOG

NEW... XPRESSO Low Jitter Oscillators!

- CRYSTALS
- OSCILLATORS
- XPRESSO
- VCXOs
- TCXOs
- OCXOs
- FILTERS

FOX Rocks!

...for more than 30 years!

# Fox Electronics...*your global resource for frequency control solutions.*

In addition to offering the industry's broadest range of frequency control solutions off-the-shelf, Fox also offers the most comprehensive range of custom crystals, oscillators, VCXOs, TCXOs and OCXOs.

This shortform catalog provides a brief overview of some of Fox's most popular products and services. For the most complete and current engineering data available, visit us on line at **www.foxonline.com.**

## CRYSTALS

| FX216C | FX252BS | FQ3225B | FX325BS | FQ5032 SERIES | FX532 SERIES |
|---|---|---|---|---|---|
| | | Low Cost | | Low Cost | |
| 24.000 ~ 54.000 MHz | 16.000 ~ 54.000 MHz | 16.000 ~ 50.000 MHz | 16.000 ~ 50.000 MHz | 12.000 ~ 40.000 MHz | 10.000 ~ 67.000 MHz |
| ±50 PPM ~ ±10 PPM* | ±50 PPM ~ ±10 PPM* | ±30 PPM ~ ±20 PPM* | ±50 PPM ~ ±10 PPM* | ±30 PPM ~ ±20 PPM* | ±50 PPM ~ ±10 PPM* |
| ±50 PPM ~ ±10 PPM** | ±50 PPM ~ ±10 PPM** | ±30 PPM ~ ±20 PPM** | ±50 PPM ~ ±10 PPM** | ±30 PPM ~ ±20 PPM** | ±50 PPM ~ ±10 PPM** |
| -10°C ~ +60°C to -40°C ~ +85°C | 0°C ~ +70°C to -40°C ~ +85°C | -10°C ~ +70°C to -40°C ~ +85°C | -10°C ~ +60°C to -40°C ~ +85°C | 0°C ~ +70°C to -40°C ~ +85°C | -10°C ~ +60°C to -40°C ~ +85°C |
| • 2 x 1.6 mm<br>• 0.4 mm Height Max<br>• Fundamental up to 54 MHz<br>• 4 Pad Design<br>• RoHS Compliant | • 2.5 x 2 mm<br>• 0.6 mm Height Max<br>• Fundamental up to 54 MHz<br>• 4 Pad Design<br>• RoHS Compliant | • 3.2 x 2.5 mm<br>• 1.0 mm Height Max<br>• Fundamental up to 50 MHz<br>• 4 Pad Design<br>• RoHS Compliant | • 3.2 x 2.5 mm<br>• 0.8 mm Height Max<br>• Fundamental up to 50 MHz<br>• 4 Pad Design<br>• RoHS Compliant | • 5 x 3.2 mm<br>• 1.2 mm Height Max<br>• All Quartz Packaging<br>• 2 or 4 Pad Design<br>• RoHS Compliant | • 5 x 3.2 mm<br>• 1.0 mm Height Max<br>• Fundamental up to 67 MHz<br>• 2 or 4 Pad Design<br>• RoHS Compliant |

* Tolerance ** Stability

## CRYSTALS

| FQ6035 SERIES | FMB | FD | FEG | HC49SDLF | FXA SERIES (Auto Grade) |
|---|---|---|---|---|---|
| Low Cost | | | | Stocking Std. | |
| 11.000 ~ 40.000 MHz | 9.000 ~ 90.064583 MHz | 8.000 ~ 200.000 MHz | 9.600 ~ 48.000 MHz | 3.200 ~ 70.000 MHz | 6.000 ~ 150.000 MHz |
| ±30 PPM ~ ±20 PPM* | ±50 PPM ~ ±5 PPM* | ±50 PPM ~ ±5 PPM* | ±50 PPM ~ ±20 PPM* | ±50 PPM ~ ±10 PPM* | ±100 PPM ~ ±50 PPM* |
| ±30 PPM ~ ±20 PPM** | ±50 PPM ~ ±3 PPM** | ±50 PPM ~ ±3 PPM** | ±50 PPM ~ ±20 PPM** | ±50 PPM ~ ±5 PPM** | ±100 PPM ~ ±50 PPM** |
| 0°C ~ +70°C to -40°C ~ +85°C | -10°C ~ +60°C to -40°C ~ +85°C | -10°C ~ +60°C to -40°C ~ +85°C | -10°C ~ +60°C to -40°C ~ +85°C | -20°C ~ +70°C to -40°C ~ +105°C | -40°C ~ +85°C to -40°C ~ +125°C |
| • 6 x 3.5 mm<br>• 1.3 mm Height Max<br>• All Quartz Packaging<br>• 2 or 4 Pad Design<br>• RoHS Compliant | • 6 x 3.5 mm<br>• 1.1 mm Height Max<br>• Fundamental up to 50 MHz<br>• 4 Pad Design<br>• RoHS Compliant | • 7.5 x 5 mm<br>• 1.1 mm Height Max<br>• Fundamental up to 200 MHz<br>• 4 Pad Design<br>• RoHS Compliant | • 8 x 4.5 mm<br>• 1.6 mm Height Max<br>• Fundamental up to 48 MHz<br>• 4 Pad Design<br>• RoHS Compliant | • Least Expensive<br>• Fundamental up to 50 MHz<br>• RoHS Compliant | • Meets AEC-Q200<br>• 4 Package Sizes: 2.5 x 2 mm, 3.2 x 2.5 mm, 5 x 3.2 mm, 7 x 5 mm<br>• RoHS Compliant |

* Tolerance ** Stability

## WATCH CRYSTALS

| FX135 | FX145 | FX255 | FSXLF | FSRLF | FSMLF |
|---|---|---|---|---|---|
| | | | | | |
| 32.768 kHz | 32.768 kHz | 32.768 kHz | 32.768 kHz | 32.768 kHz | 32.768 kHz |
| ±20 PPM* | ±20 PPM* | ±20 PPM* | ±20 PPM* | ±20 PPM* | ±20 PPM* |
| -0.04 PPM / $\Delta(^{\circ}C)^2$** | -0.04 PPM / $\Delta(^{\circ}C)^2$** | -0.04 PPM / $\Delta(^{\circ}C)^2$** | -0.04 PPM / $\Delta(^{\circ}C)^2$** | -0.04 PPM / $\Delta(^{\circ}C)^2$** | -0.04 PPM / $\Delta(^{\circ}C)^2$** |
| -40°C ~ +85°C | -40°C ~ +85°C | -40°C ~ +85°C | -40°C ~ +85°C | -40°C ~ +85°C | -40°C ~ +85°C |
| • 3.2 x 1.5 mm<br>• 0.9 mm Height Max<br>• 12.5 pF or 9 pF<br>• RoHS Compliant | • 4.1 x 1.5 mm<br>• 0.9 mm Height Max<br>• 12.5 pF<br>• RoHS Compliant | • 4.9 x 1.8 mm<br>• 1.0 mm Height Max<br>• 12.5 pF<br>• RoHS Compliant | • 7 x 1.5 mm<br>• 1.4 mm Height Max<br>• 12.5 pF or 7 pF<br>• RoHS Compliant | • 8.7 x 3.7 mm<br>• 2.5 mm Height Max<br>• 12.5 pF or 6 pF<br>• RoHS Compliant | • 10.41 x 4.06 mm<br>• 3.56 mm Height Max<br>• 12.5 pF or 6 pF<br>• RoHS Compliant |

* Tolerance ** Stability

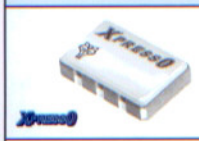
# SELECTION

*Partial listing, visit **foxonline.com** fo*

## OSCILLATORS

| F200 | F210 SERIES | F240 SERIES | F230 SERIES | F300 SERIES | F500 SERIES |
|---|---|---|---|---|---|
| | | | | | |
| 1.800 ~ 50.000 MHz | 750 kHz ~ 50.000 MHz | 750 kHz ~ 50.000 MHz | 750 kHz ~ 50.000 MHz | 1.800 ~ 50.000 MHz | 1.544 ~ 155.520 MHz |
| ±100, ±50, ±25 PPM | ±100, ±50, ±25 PPM | ±100, ±50, ±25 PPM | ±100, ±50, ±25 PPM | ±100, ±50, ±25, ±20 PPM | ±100, ±50, ±25, ±20 PPM |
| -10°C ~ +70°C<br>-40°C ~ +85°C (Option) | -10°C ~ +70°C<br>-40°C ~ +85°C (Option) | -10°C ~ +70°C<br>-40°C ~ +85°C (Option) | -10°C ~ +70°C<br>-40°C ~ +85°C (Option) | -10°C ~ +70°C<br>-40°C ~ +85°C (Option) | -10°C ~ +70°C<br>-40°C ~ +85°C (Option) |
| • 2.5 x 2.0 mm<br>• 1.0 V Operation<br>• HCMOS Output<br>• RoHS Compliant | • 2.5 x 2.0 mm<br>• 1.8 V Operation<br>• HCMOS Output<br>• RoHS Compliant | • 2.5 x 2.0 mm<br>• 2.5 V Operation<br>• HCMOS Output<br>• RoHS Compliant | • 2.5 x 2.0 mm<br>• 3.3 V Operation<br>• HCMOS Output<br>• RoHS Compliant | • 3.2 x 2.5 mm<br>• 1.0 V, 1.8 V, 2.5 V or 3.3 V Operation<br>• HCMOS Output<br>• RoHS Compliant | • 5 x 3.2 mm<br>• 1.8 V, 2.5 V or 3.3 V Operation<br>• HCMOS Output<br>• RoHS Compliant |

## OSCILLATORS

| FXO-HC3 SERIES | FXO-HC5 SERIES | FXO-PC5 SERIES | FXO-LC5 SERIES | F4500 SERIES | FXO-HC7 SERIES |
|---|---|---|---|---|---|
|  10 Day Leadtime | 10 Day Leadtime | 10 Day Leadtime | 10 Day Leadtime | | 10 Day Leadtime |
| 750 kHz ~ 250.000 MHz | 750 kHz ~ 250.000 MHz | 750 kHz ~ 1.35 GHz | 750 kHz ~ 1.35 GHz | 1.800 ~ 125.000 MHz | 750 kHz ~ 250.000 MHz |
| ±100, ±50 PPM | ±100, ±50, ±25, ±20 PPM | ±100, ±50, ±25, ±20 PPM | ±100, ±50, ±25, ±20 PPM | ±100, ±50, ±25, ±20 PPM | ±100, ±50, ±25, ±20 PPM |
| -20°C ~ +70°C<br>-40°C ~ +85°C (Option) | -20°C ~ +70°C<br>-40°C ~ +85°C (Option) | -20°C ~ +70°C<br>-40°C ~ +85°C (Option) | -20°C ~ +70°C<br>-40°C ~ +85°C (Option) | -10°C ~ +70°C<br>-40°C ~ +85°C (Option) | -20°C ~ +70°C<br>-40°C ~ +85°C (Option) |
| • 3.2 x 2.5 mm<br>• 2.5 V or 3.3 V Operation<br>• HCMOS Output<br>• RoHS Compliant<br>• < 1 pS Phase Jitter | • 5 x 3.2 mm<br>• 2.5 V or 3.3 V Operation<br>• HCMOS Output<br>• RoHS Compliant<br>• < 1 pS Phase Jitter | • 5 x 3.2 mm<br>• 2.5 V or 3.3 V Operation<br>• LVPECL Output<br>• RoHS Compliant<br>• < 1 pS Phase Jitter | • 5 x 3.2 mm<br>• 2.5 V or 3.3 V Operation<br>• LVDS Output<br>• RoHS Compliant<br>• < 1 pS Phase Jitter | • 7.5 x 5 mm<br>• 1.8 V Operation<br>• HCMOS Output<br>• RoHS Compliant | • 7.5 x 5 mm<br>• 2.5 V or 3.3 V Operation<br>• HCMOS Output<br>• RoHS Compliant<br>• < 1 pS Phase Jitter |

## OSCILLATORS

| F4100 SERIES | F3345 SERIES | FXO-PC72 SERIES | FXO-PC73 SERIES | FXO-LC72 SERIES | FXO-LC73 SERIES |
|---|---|---|---|---|---|
| | | 10 Day Leadtime | 10 Day Leadtime | 10 Day Leadtime | 10 Day Leadtime |
| 12 kHz ~ 170.000 MHz | 1.000 ~ 80.000 MHz | 750 kHz ~ 1.00 GHz | 750 kHz ~ 1.35 GHz | 750 kHz ~ 1.00 GHz | 750 kHz ~ 1.35 GHz |
| ±100, ±50, ±25, ±20 PPM | ±100, ±50, ±25, ±20 PPM | ±100, ±50, ±25, ±20 PPM | ±100, ±50, ±25, ±20 PPM | ±100, ±50, ±25, ±20 PPM | ±100, ±50, ±25, ±20 PPM |
| -10°C ~ +70°C<br>-40°C ~ +85°C (Option) | -10°C ~ +70°C<br>-40°C ~ +85°C (Option) | -10°C ~ +70°C<br>-40°C ~ +85°C (Option) | -10°C ~ +70°C<br>-40°C ~ +85°C (Option) | -20°C ~ +70°C<br>-40°C ~ +85°C (Option) | -20°C ~ +70°C<br>-40°C ~ +85°C (Option) |
| • 7.5 x 5 mm<br>• 3.3 V Operation<br>• HCMOS Output<br>• 2.5 V and 2.85 V Option<br>• RoHS Compliant | • 7.5 x 5 mm<br>• 5 V Operation<br>• HCMOS Output<br>• RoHS Compliant | • 7.5 x 5 mm<br>• 2.5 V Operation<br>• LVPECL Output<br>• RoHS Compliant<br>• < 1 pS Phase Jitter | • 7.5 x 5 mm<br>• 3.3 V Operation<br>• LVPECL Output<br>• RoHS Compliant<br>• < 1 pS Phase Jitter | • 7.5 x 5 mm<br>• 2.5 V Operation<br>• LVDS Output<br>• RoHS Compliant<br>• < 1 pS Phase Jitter | • 7.5 x 5 mm<br>• 3.3 V Operation<br>• LVDS Output<br>• RoHS Compliant<br>• < 1 pS Phase Jitter |

# GUIDE

*r complete updated details.*

ISO 9001: 2000

## VCXOs

| FVXO-HC5 SERIES | FVXO-PC5 SERIES | FVXO-LC5 SERIES | FVXO-HC7 SERIES | FVXO-PC7 SERIES | FVXO-LC7 SERIES |
|---|---|---|---|---|---|
| 10 Day Leadtime | 10 Day Leadtime | 10 Day Leadtime | 10 Day Leadtime | 10 Day Leadtime | 10 Day Leadtime |
| 750 kHz ~ 250.000 MHz | 750 kHz ~ 1.35 GHz | 750 kHz ~ 1.35 GHz | 750 kHz ~ 250.000 MHz | 750 kHz ~ 1.35 GHz | 750 kHz ~ 1.35 GHz |
| ±50 PPM APR | ±50 PPM APR | ±50 PPM APR | ±50 PPM APR | ±50 PPM APR | ±50 PPM APR |
| -20°C ~ +70°C<br>-40°C ~ +85°C (Option) | -20°C ~ +70°C<br>-40°C ~ +85°C (Option) | -20°C ~ +70°C<br>-40°C ~ +85°C (Option) | -20°C ~ +70°C<br>-40°C ~ +85°C (Option) | -20°C ~ +70°C<br>-40°C ~ +85°C (Option) | -20°C ~ +70°C<br>-40°C ~ +85°C (Option) |
| • 5 x 3.2 mm<br>• 2.5 V or 3.3 V Operation<br>• HCMOS Output<br>• Enable/Disable Function<br>• RoHS Compliant<br>• < 1 pS Phase Jitter | • 5 x 3.2 mm<br>• 2.5 V or 3.3 V Operation<br>• LVPECL Output<br>• Enable/Disable Function<br>• RoHS Compliant<br>• < 1 pS Phase Jitter | • 5 x 3.2 mm<br>• 2.5 V or 3.3 V Operation<br>• LVDS Output<br>• Enable/Disable Function<br>• RoHS Compliant<br>• < 1 pS Phase Jitter | • 5 x 3.2 mm<br>• 2.5 V or 3.3 V Operation<br>• HCMOS Output<br>• Enable/Disable Function<br>• RoHS Compliant<br>• < 1 pS Phase Jitter | • 7.5 x 5 mm<br>• 2.5 V or 3.3 V Operation<br>• LVPECL Output<br>• Enable/Disable Function<br>• RoHS Compliant<br>• < 1 pS Phase Jitter | • 7.5 x 5 mm<br>• 2.5 V or 3.3 V Operation<br>• LVDS Output<br>• Enable/Disable Function<br>• RoHS Compliant<br>• < 1 pS Phase Jitter |

## TCXOs

| FOX923 SERIES | FOX923-GP SERIES | FOX914 SERIES | FOX924 SERIES | FOX331 SERIES | FOX801LF SERIES |
|---|---|---|---|---|---|
| | | | | | |
| 8.000 ~ 52.000 MHz | 16.000 ~ 27.456 MHz | 12.288 ~ 35.000 MHz | 10.000 ~ 30.000 MHz | 10.000 ~ 26.000 MHz | 9.600 ~ 56.000 MHz |
| ±2.5 PPM | ±0.5 PPM | ±2.5 PPM | ±2.5 PPM | ±0.28 PPM | ±2.5 PPM |
| -20°C ~ +75°C | -30°C ~ +85°C | -20°C ~ +75°C | -30°C ~ +85°C | -20°C ~ +70°C<br>-40°C ~ +85°C (Option) | -30°C ~ +75°C |
| • 3.2 x 2.5 mm<br>• 1.8 ~ 3.3 V Operation<br>• Clipped Sine or HCMOS Output<br>• TCXO or VCTCXO<br>• RoHS Compliant | • 3.2 x 2.5 mm<br>• 1.8 ~ 3.3 V Operation<br>• Clipped Sine Output<br>• TCXO or VCTCXO<br>• RoHS Compliant<br>• **For GPS Applications** | • 5 x 3.2 mm<br>• 3 V Operation<br>• Clipped Sine Output<br>• TCXO or VCTCXO<br>• RoHS Compliant | • 5 x 3.2 mm<br>• 3.3 V Operation<br>• HCMOS Output<br>• TCXO or VCTCXO<br>• RoHS Compliant | • 7 x 5 mm<br>• 3.3 V Operation<br>• HCMOS Output<br>• TCXO or VCTCXO<br>• RoHS Compliant<br>• **Meets Stratum III** | • 11.4 x 9.6 mm<br>• 3 V, 3.3 V or 5 V Operation<br>• Clipped Sine or HCMOS Output<br>• TCXO or VCTCXO<br>• RoHS Compliant |

## OCXOs

| FHS301/501 SERIES | FTS310 SERIES | FTS301/501 SERIES | FTC SERIES | FTE SERIES |
|---|---|---|---|---|
| | | | | |
| 5.000 ~ 80.000 MHz | 2.430 ~ 60.000 MHz | 2.430 ~ 60.000 MHz | 1.000 ~ 100.000 MHz | 5.000 ~ 50.000 MHz |
| ±250 PPB | ±250 PPB | ±250 PPB | ±10, ±20, ±50 PPB | ±7, ±10, ±15 PPB |
| -30°C ~ +75°C | -40°C ~ +65°C<br>-40°C ~ +85°C (Option) | 0°C ~ +70°C<br>-20°C ~ +70°C (Option) | -20°C ~ +70°C | 0°C ~ +70°C<br>-40°C ~ +75°C (Option) |
| • 8 Pin Half DIP/Low Profile<br>• 3.3 V or 5 V Operation<br>• Clipped Sine Wave or HCMOS Output<br>• Low Power, 0.25 W, 25°C | • 14 Pin DIP<br>• 3.3 V Operation<br>• HCMOS/TTL Output<br>• **Meets IEEE802.16-2004** | • 14 Pin DIP<br>• 3.3 V or 5 V Operation<br>• HCMOS/TTL Output<br>• **Meets Stratum III** | • 1" x 1" Package<br>• 3.3 V or 5 V Operation<br>• Sine Wave or HCMOS Output | • Euro Package<br>• 5 V Operation<br>• Clipped Sine Wave or HCMOS Output<br>• SC Cut Resonator Design |

**Tell us your OCXO specs and we'll recommend the optimum device for your application. Here's what we need to know:**

**(Required Information)**

Frequency (ie. kHz, MHz)
Stability (ie. PPM, PPB)
Operating Temp. (ex. 0-70°C)
Aging (ex. PPB Per Day/Year)
Output (ex. Sine Wave)
Frequency Adjust (ex. ±1 PPM)
Output Level (ex. 0 dBM, 1 VPP)
Load (ex. 50 Ohm)

# Who says you can't have it all?

For a long time, the process of specifying and selecting oscillators for your equipment designs has involved balancing technical demands and practical considerations – in terms of physical performance, purchase cost and delivery time. *Not any longer!*

The revolutionary new XpressO® crystal oscillator family from Fox provides a wider range of options, with fewer compensating factors, shorter lead times and reduced pricing. Instead of being faced with crucial tradeoffs in cost, performance or delivery times, you can have virtually the best of all worlds in one package.

XPRESSO®

1 Picosecond Phase Jitter!

## Great for your designs.

If an oscillator can't deliver the performance you need in your design, it doesn't matter how much it costs. But Fox XpressO oscillators with patented new technologies *(including proprietary ASICs with noise reduction silicon architectures and proven production techniques)* deliver accurate performance over an extremely wide range of parameters – all at a lower cost than conventional oscillators! Call today to compare XpressO's low pricing for the following performance options:

- **The exact frequency you need,** from 0.750 MHz to 1.350 GHz
- **Stabilities** as tight as ±20 ppm
- **Low jitter and phase noise** characteristics to meet your toughest needs*
- **Choice** of HCMOS, LVDS, and LVPECL versions for both XO and VCXO product families
- **Choice** of 2.5 V or 3.3 V supply voltages
- **Choice** of 7 x 5 mm and 5 x 3.2 mm and 3.2 x 2.5 mm package sizes

## Great for your business, too!

Specifying the optimum oscillator for your design is only half the battle. Getting it delivered in time to meet the most pressing customer deadlines for engineering prototypes or full production models – without technical compromise and without paying a premium – can be the difference between a profitable contract and a lost opportunity. This is where XpressO really lives up to its name, with:

- **Next day shipment** of samples for prototyping
- **Mere days** for lead times on production quantities
- **A new pricing structure** that, unlike conventional oscillators, won't penalize you for requesting quick turnaround on unique frequencies

ISO9001: 2000 Approved

## XpressO Jitter Characteristics

Unlike programmable oscillators, the jitter and noise characteristics of XpressO configurable oscillators are comparable to or better than those of fixed frequency oscillators in virtually all applications. You can choose the XpressO oscillator that's ideal for your specific application.

| | MHz | Phase pS (RMS) | TIE pS (RMS) | Rj pS (RMS) | Dj pS (Mean) | Tj (Dj+14 Rj) |
|---|---|---|---|---|---|---|
| HCMOS | 62.50 | 0.93 | 3.7 | 0.9 | 7.4 | 20.4 |
| | 106.25 | 0.85 | 3.6 | 1.0 | 7.7 | 21.7 |
| | 125.00 | 0.73 | 2.8 | 0.8 | 7.5 | 19.1 |
| | 156.25 | 0.89 | 3.3 | 0.9 | 7.6 | 20.4 |
| LVDS | 106.25 | 0.83 | 3.5 | 0.7 | 7.1 | 17.2 |
| | 156.25 | 0.85 | 3.6 | 1.3 | 5.8 | 23.6 |
| | 212.50 | 0.89 | 3.9 | 0.9 | 6.7 | 18.7 |
| | 622.08 | 0.99 | 3.2 | 1.1 | 5.3 | 20.7 |
| LVPECL | 62.50 | 0.77 | 3.0 | 1.3 | 7.0 | 24.9 |
| | 155.52 | 0.92 | 3.5 | 1.3 | 9.9 | 28.7 |
| | 156.25 | 0.96 | 3.4 | 1.4 | 9.1 | 28.7 |
| | 212.50 | 0.99 | 3.8 | 1.2 | 9.3 | 26.3 |
| | 312.50 | 0.98 | 3.8 | 1.3 | 8.3 | 26.4 |
| | 622.08 | 0.96 | 3.1 | 1.2 | 8.5 | 25.1 |

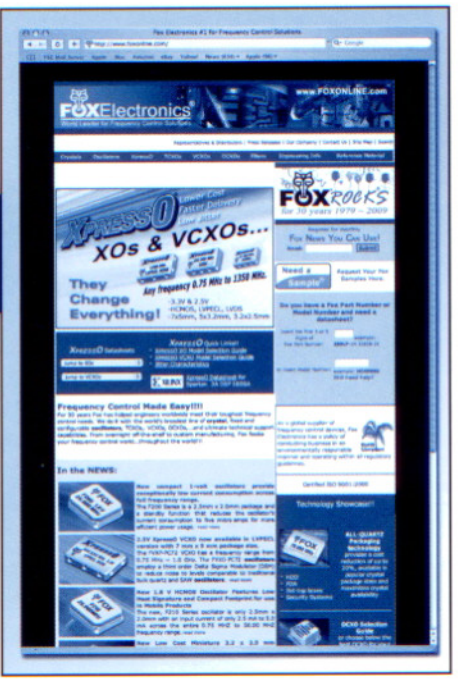
* If you have specific jitter or phase noise requirements please contact Fox Technical Support for availability.

# Fox Custom Products Center

## Meeting your custom frequency control solutions needs.

## Including:

- *Application-Specific Crystals, Oscillators, VCXOs, TCXOs and OCXOs*
- *Cost-Effective Development with Rapid Turnaround*
- *Engineered Solutions from Minor Modifications to Full Custom*
- *Dedicated Engineering Support Team for Your Application*
- *Advanced Frequency Control Expertise from the World Leader*




## Learn More About The New Fox XpressO Family of Oscillators...

To learn more about the performance and business advantages of Fox XpressO oscillators, call us today at 888-GET-2-FOX (888-438-2369). Or visit us on line at **www.foxonline.com** for complete specifications and the industry's most comprehensive range of frequency control solutions.

Fox Electronics has a staff of application specialists ready to help you. Contact our technical support staff– **www.foxonline.com/email.htm.**

**FOX** Electronics

We're On Your Frequency.

RoHS Compliant Pb

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