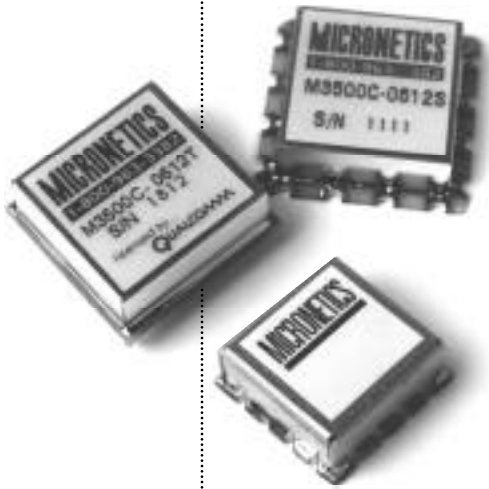


INTRODUCTION: VCOs FOR THE REAL WORLD



▶ When your system design calls for a Voltage Controlled Oscillator that performs predictably and consistently without tuning, you should look at the Micronetics M3500 VCO Series.

CONSISTENT PERFORMANCE FROM 100 MHz TO 3.5 GHz.

The M3500 Series features 13 different standard VCOs covering a broad spectrum of the frequency range — from 100 MHz to 3.5 GHz.

With their rugged design and reliable performance characteristics, these VCOs are ideal for use in everything from synthesizers and digital modems to direct

broadcast, spread spectrum and wireless communication systems.

And there's another advantage as well: M3500 VCOs offer you this high quality and dependability without the high cost. Until now, VCOs have either been very inexpensive (\$5 - \$10) with limited performance, or quite costly. In fact, VCOs for specialized, high performance applications can be priced at several hundred dollars a piece.

The M3500 Series is the answer to the industry's need for a "work horse" VCO — one that can do the job required, and do it at a reasonable price. M3500 VCOs were designed to deliver optimum performance, even in the real world.

WHY THE M3500 SERIES IS SO PREDICTABLE.

Each M3500 VCO is electrically identical to the next — and that's a tremendous plus when it comes to system design. It means you can be sure that an M3500 VCO will perform exactly as you expect it to — time and

time again.

Even though other VCOs on the marketplace may seem to offer slightly better performance, or lower phase noise, there tends to be a lot of variability from unit to unit.

As a result, systems incorporating these other VCOs often have to be manually tuned or tested to take advantage of the low phase noise or higher performance — all because the VCO characteristics are never quite the same.

When you think about designing a large system — one that may be in production for years to come and require more than a million VCOs — you just can't underestimate the value of a consistently-performing VCO.

DESIGNED AND DEVELOPED AT QUALCOMM.

The M3500 Series was designed, developed and tested at QUALCOMM, Inc. — an engineering company widely known for its advanced communications systems

and products based on digital wireless technologies.

QUALCOMM engineers designed these VCOs with an eye on the overall system, focusing on a wide range of parameters that have a large, although indirect, impact on system noise performance.

In 1994, Micronetics acquired the sole rights to manufacture and distribute the QUALCOMM VCOs. The M3500 Series joins Micronetics existing family of customized VCOs for wireless applications.

**NOW AVAILABLE IN
.50" SURFACE MOUNT
PACKAGING.**

All 13 VCOs in the M3500 Series are available in both pin type (.81" square) and surface mount (.91" square) packaging, ready for quick, off-the-shelf delivery. We've also designed our six most popular models in new .50" surface mount packaging. Although smaller in size, these new VCOs offer the same reliable performance characteristics as the

larger VCOs in the M3500 product family. Check our product selection guide on page 8 for details.

APPLICATIONS

- n Wireless Local Loop
- n Personal Communications
- n CDMA, GSM Systems
- n VSAT Terminals
- n Direct Broadcast Systems (DBS)
- n Global Positioning Systems (GPS)
- n Digital Radios and Modems
- n Cellular Communications
- n Synthesizers
- n Test Equipment
- n Digital Modems
- n Up/Down Converters

