

NEW

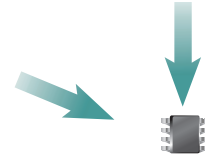
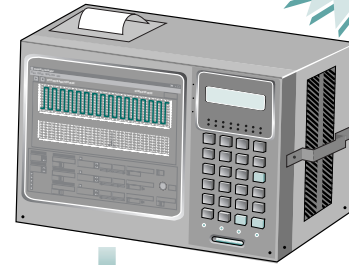
WORLD'S FIRST ALL-SILICON FREQUENCY SYNTHESIZER

Lowest Cost, Smallest Solution—Requires No External Components or Crystal

The DS1085 EconOillator™ is the first EconoSynthesizer™ IC with both a programmable master-frequency synthesizer and a divider chain. The DS1085 in a small 8-pin SO package provides a low-cost alternative to crystal-based clock synthesizers. Both 3V and 5V versions are available.

- ◆ 66MHz to 133MHz Full-Scale Digital Master Oscillator (5V) or 33MHz to 66MHz Master (3V)
- ◆ 2-Wire Interface for Easy Integration
- ◆ Dual Configurable Control Pins for Power-Down and Glitchless Output Gating
- ◆ Dual Synchronous Squarewave Outputs from 4.8kHz to 133MHz
- ◆ Programmable Prescalers (Divide by 1, 2, 4, or 8)
- ◆ Programmable Divider (Divide by 1 to 1025)
- ◆ Power-Down Mode
- ◆ 1% Frequency Accuracy

**MORE THAN
10 MILLION OUTPUT
FREQUENCY
COMBINATIONS**



TINY SO PACKAGE!

Available in a tiny 8-SO, the DS1085 provides the same functionality as this standard frequency synthesizer.

Complete Frequency Synthesizer in a Single Integrated Circuit

PART	MASTER RESOLUTION (kHz)	FREQUENCY RANGE MAIN OUTPUT	VOLTAGE (V)	PIN-PACKAGE	PRICE† (\$)
DS1085Z-10	10	8.1kHz to 133MHz	4.75 to 5.25	8-SO	3.00
DS1085Z-25	25	8.1kHz to 133MHz	4.75 to 5.25	8-SO	3.00
DS1085Z-50	50	8.1kHz to 133MHz	4.75 to 5.25	8-SO	3.00
DS1085LZ-5	5	4.8kHz to 66MHz	2.7 to 3.6	8-SO	3.00
DS1085LZ-12	12.5	4.8kHz to 66MHz	2.7 to 3.6	8-SO	3.00
DS1085LZ-25	25	4.8kHz to 66MHz	2.7 to 3.6	8-SO	3.00

EconOillator™ and EconoSynthesizer™ are trademarks of Dallas Semiconductor.

†1000-up recommended resale, FOB USA. Prices provided are for design guidance and are for the lowest grade, commercial temperature parts. International prices will differ due to local duties, taxes, and exchange rates. Prices are subject to change. Not all packages are offered in 1k increments, and some may require minimum order quantities.



FREE System Timing & Control Design Guide—Sent Within 24 Hours!
Includes: Reply Cards for Free Samples and Data Sheets

CALL TOLL-FREE 1-800-998-8800 for a Design Guide or Free Sample
6:00 a.m. – 6:00 p.m. Pacific Time

2002 EDITION!
FREE FULL-LINE DATA CATALOG
ON CD-ROM



www.maxim-ic.com



ARROW ELECTRONICS, INC.
1-800-777-2776



Dallas Semiconductor, 4401 South Beltwood Parkway, Dallas, Texas 75244-3292 Phone: 972-371-4000 FAX: 972-371-4470

Distributed by Maxim/Dallas Direct!, Arrow, Avnet Electronics Marketing, Digi-Key, and Newark.
Distributed in Canada by Arrow and Avnet Electronics Marketing.

MAXIM is a registered trademark of Maxim Integrated Products, Inc. © 2002 Maxim Integrated Products.