

Eastern OptX

Propagation Path Simulators

Bring the Test Range to Your Test Bench



Product Summary

Introduction

The EOX Series 1000, 3000, and 6000 Delay Line Systems offer outstanding accuracy, reliability, and flexibility. EOX provides easily configurable systems that can be tailored to specific applications. This is the EOX difference. Starting with one of the standard EOX systems we can implement the many standard options to solve your specific test problems quickly, and economically. Software provided for remote operation is user friendly and configurable.

Standard EOX Systems

- Series 1000 Single Delay Line
- Series 3000 Multiple Delay Lines
- Series 6000 Altimeter Test Set

Standard System Options (Varies with Series Type)

- Number of Delays (8 max in a single unit)
- Delay Size (up to 250 us, longer delays possible)
- Delay Configurations: Discrete, Progressive, or Combined Discrete and Progressive.
- Amplitude Control — Optical and/or RF
- Remote Control Interface
- RF Connector Type
- Front Panel Control Type — Rotary Switch, LCD Touch Screen, Keypad, Toggle
- Switching Speed
- Power Meter
- Signal Delay Bypass
- External Delay
- Frequency Counter
- Travel Case

Eastern OptX, Inc.

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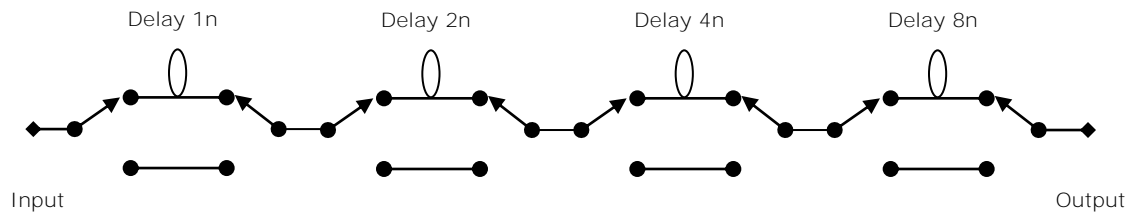
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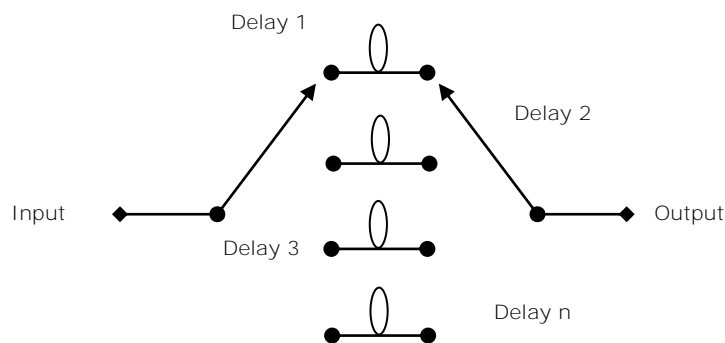
Product Details

| Parameter | Specification | Notes |
|------------------------|--------------------------|--------------------------------------|
| Frequency Range | 0.1 — 18 GHz | Narrower ranges standard |
| Accuracy | 1 % | Optional 0.1% |
| Repeatability | 0.01% | At constant temperature |
| System RF Gain | 6 dB | Typical, 50 us delay @ 5 GHz |
| VSWR | 2 : 1 | Maximum |
| Spurious Free Dynamic | 100 dB/Hz ^{2/3} | Minimum |
| 1 dB Input Compression | -15 dBm | Minimum |
| Noise Figure | 25 dB | Maximum (Lower NF optional) |
| Input/Output Impedance | 50 Ω | Nominal |
| Dimensions | 19" Rack Per EIA-310-D | 2U—5U, 18" - 22" depending on design |

Delay Configuration Options:



Progressive Delay Configuration



Discrete Delay Configuration

Progressive:

- Best solution for equally spaced delay step sizes
- Numerous possible delay combinations (Binary: 1, 2, 4, 8 etc.)
- More delays in a smaller package
- 1% to 3.5% overall accuracy.

Discrete:

- Best solution for few delays or unequal delay steps sizes.
- One to eight delays typical
- Better than 0.1% accuracy possible.

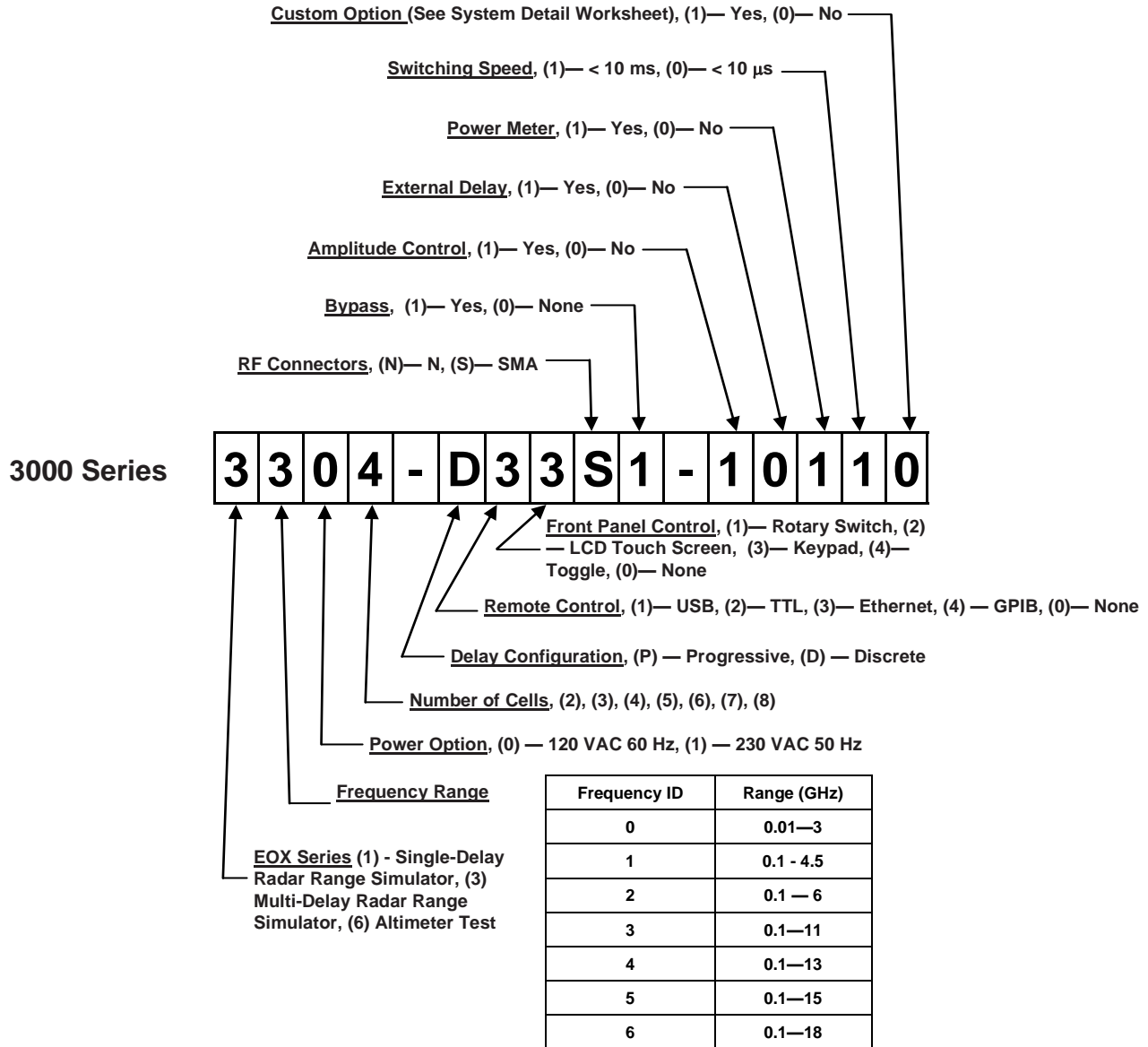
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Ordering Information 3000 Series



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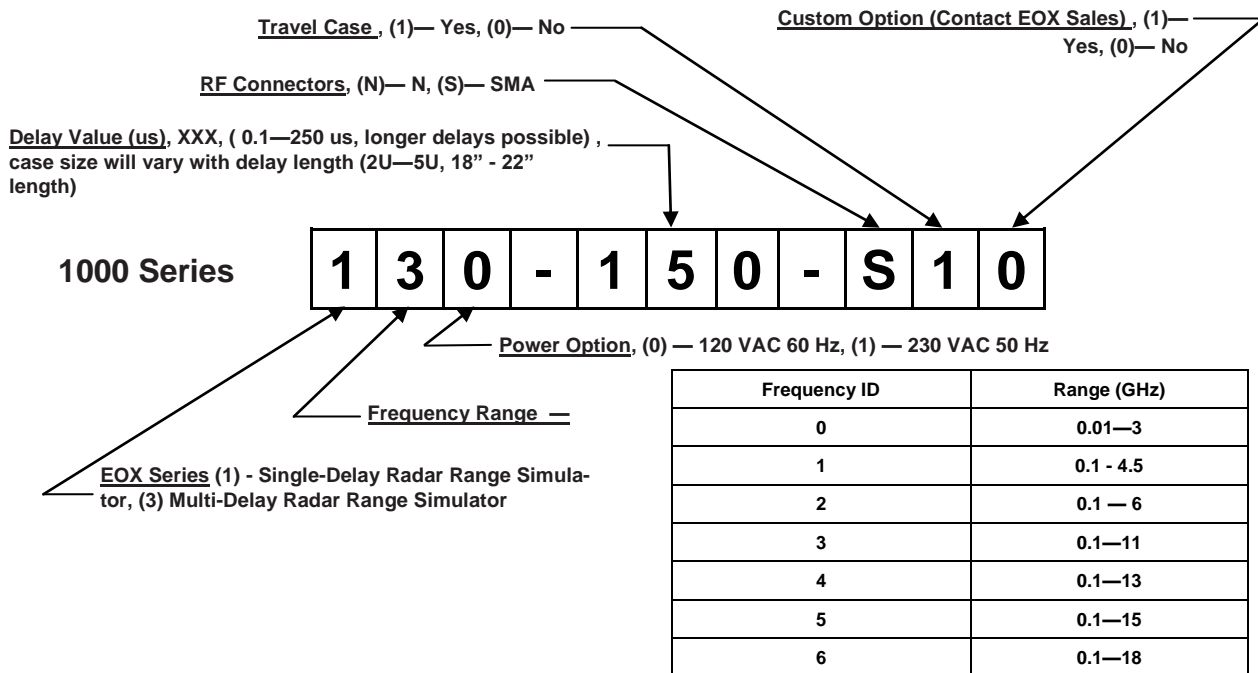
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Ordering Information 1000 and 6000 Series



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