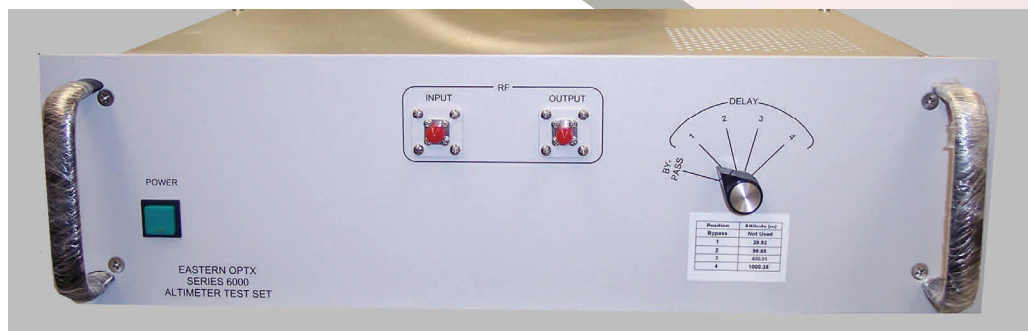


E3001

MICROWAVE DELAY LINE



- All In One Turnkey Solution
- Time Delays up to 100 μ s
- Frequency up to 6 GHz
- Low Loss
- Higher Frequencies (18 GHz) and Longer Delays

*We Bring the Test Range
to Your Test Bench*



A Veteran Owned Small Business

710 E. Main Street • Moorestown, NJ 08057

877-870-6789

sales@eastern-optx. • www.eastern-optx.com

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FEATURES

- ⇒ Easy, repeatable operation
- ⇒ Delays available to 100 μ sec
- ⇒ Optional delay-matched propagation loss

APPLICATIONS

- ⇒ Radar target simulation
- ⇒ Signal processing
- ⇒ Extension of radar range sites

RELIABILITY

- ⇒ > 140,000 hours of operation in field environments

PART NUMBER

E-3001-XXX-XXX-XXX

(Delay in μ s for each section)

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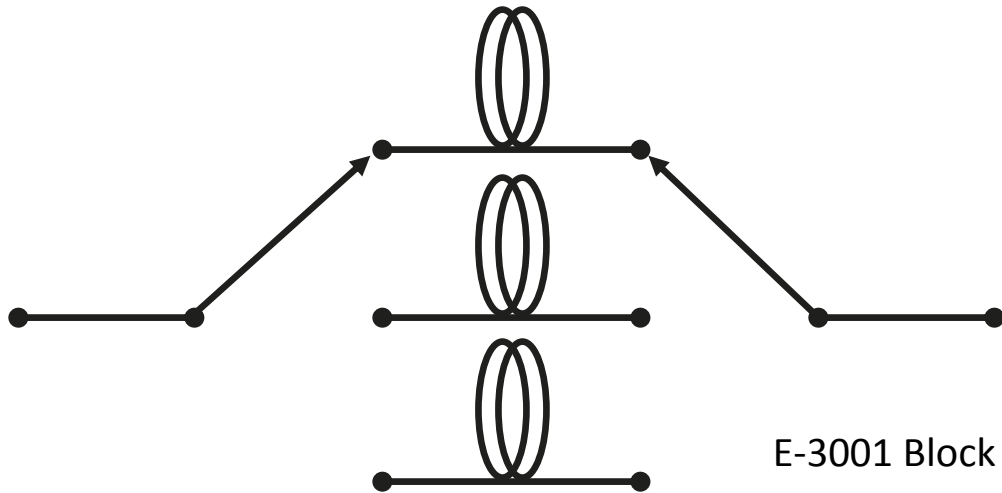


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PRODUCT SUMMARY

The *E3001 / Microwave Delay Line* is a high performance turnkey solution for radar and communications market. With three selectable delays the *E3001* allows for ultra wide bandwidth, low loss, high isolation and immunity from EMI and EMP with time delays up to 100 μ sec at frequencies from 0.1 to 6 GHz.



E-3001 Block Diagram



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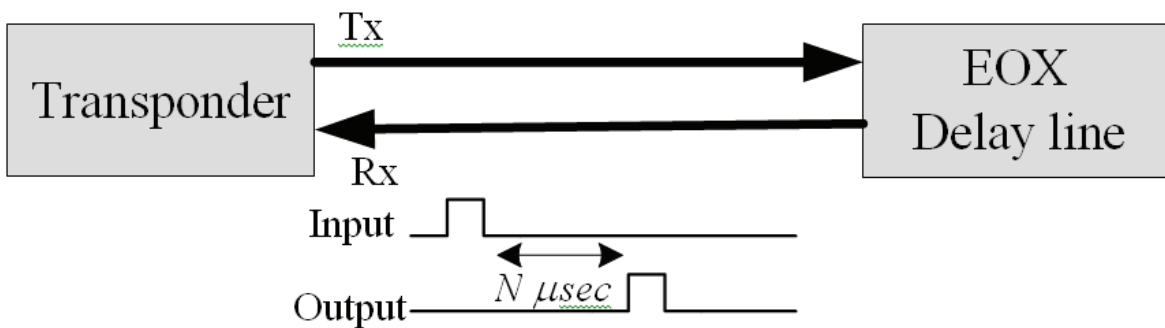
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E3001-XXX-XXX-XXX

Parameter	Specification	Notes
Frequency Range	.1—6 GHz	For higher frequencies, please see our Series 1000 data sheet
Delay Accuracy	1%	NIST traceable
Delay Repeatability	0.01%	At constant temperature
Delay Configuration	Three Discrete Delays	See Block Diagram
Delay Range (Each Delay)	Up to -100 μ sec	See part number on page 4
VSWR	2 : 1	Maximum
Spurious Free Dynamic Range	120 dB/Hz ^{2/3}	Typical
Maximum Input Power	10 dBm	CW or pulsed
External Delay	1 -100 μ sec	External delay spools optional
Input/Output Impedance	50 Ω	Nominal
Dimensions	19" Rack Per EIA-310-D	3U, 22" deep
Power	120/230 VAC	(Rechargeable Battery Available)
Input Output Connectors	Type N (Female)	Optional SMA
Delay Control	Front Panel Rotary Switch	

Target simulation and calibration of radar systems



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