

Model E3001

Model E3001 Microwave Delay Line is an all in one turnkey solution for radar and communications market. 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 up to 6 GHz.

System Features

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

Configure Now



Model E3001 Microwave Delay Line

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.

Features

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

Product Applications

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

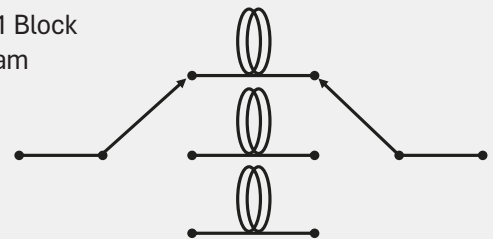
Product Applications

- Radar target simulation
- Signal processing
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Reliability

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

E3001 Block Diagram

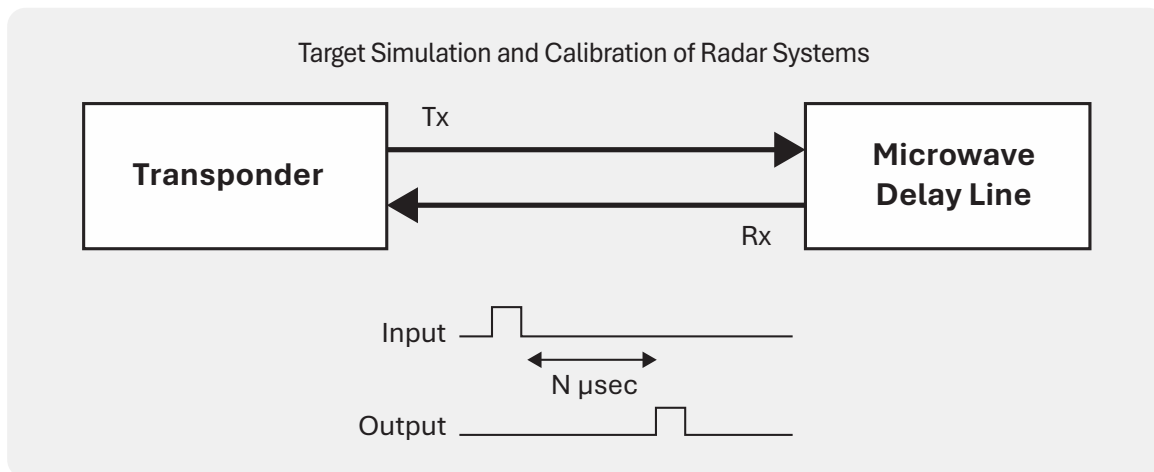




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Model E3001 Part Number: **E3001-XXX-XXX-XXX** (Delay in μs for each section)



Model E3001 Specifications

Parameter	Specifications	Notes
Frequency Range	0.1 to 6 GHz	see Series 1000 for higher frequencies
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 μsec	
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 μsec	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	