

RF/Microwave Delay Line

(Turn-Key solution for test applications)

Product Description

The programable RFDL module is a turn-key solution delivering unmatched performance in delay range, resolution, and reconfiguration speed. It converts an incoming RF signal into an optical signal and transmits through N fiber segments selectively, and re-coverts back into an output RF signal with variable Using optical switches, the time delay is variable and time delay. programmable with high resolution of 2^{N} delay selections. The RFDL system allows for a long delay up to ms in a compact package with the superior temperature stability of fiber. Delay length and link performance requirements can be tailored over a range of performance levels to meet specific requirements. Agiltron offers several choices of non-mechanical switching; ultra-fast nano-second switching; and low loss MEMS switching. Integrated optical amplification compensates optical losses with delay-matching performance.

The RFDL has a wide frequency range 40GHz. from 0.05GHz The to programmable delay module can be controlled directly with TTL, or interfaces with a computer with userfriendly GUI through RS232, RS485, USB, GPIB, or Ethernet RJ45.



Performance Specifications

Microwave Delay Line Module	Min	Typical	Max	Unit
Frequency Range	0.05		40	GHz
Delay Time Range	n		m	S
Delay Accuracy		0.1	0.5	%
RF Input Level		0		dBm
Phase Stability	2			degree
Gain (0 dBM input)	50	55		dB
Noise Figure	-20			dB
RF Connector		3.5		mm
Storage Temperature	-40		85	°C
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Note:

· Large Time Delay Range

High Reliability

High Resolution

High Speed

- Low Insertion Loss
- Low Noise

Features

Applications

- Phase-Array Antennas
- Instrumentation



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