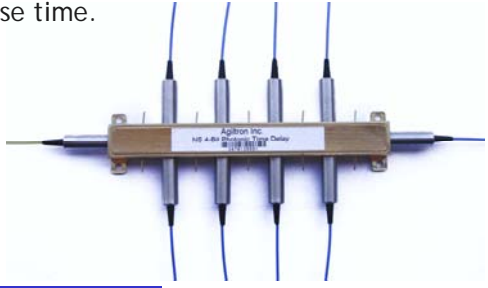


Nano Speed™ PM Variable Photonic Time Delay

Product Description

The NSTD Series photonic time delay generates variable time delay by selectively routes optic signal through 4 fiber segments whose lengths increase successively by a power of 2 to form a 4 bit digital delay line. The NSTD allows customer to splice each fiber loops, creating an increments of ΔT , up to the maximum value T (the total fiber length). The switching between each loop is achieved using a patented non-mechanical configuration. All solid-state configuration eliminates the need for mechanical movement and organic materials. The device is designed to meet the most demanding switching requirement of ultra-high reliability and fast response time.



Features

- 4-bit resolution
- High speed
- Non-mechanical
- high reliability
- Low insertion loss
- low power consumption

Performance Specifications

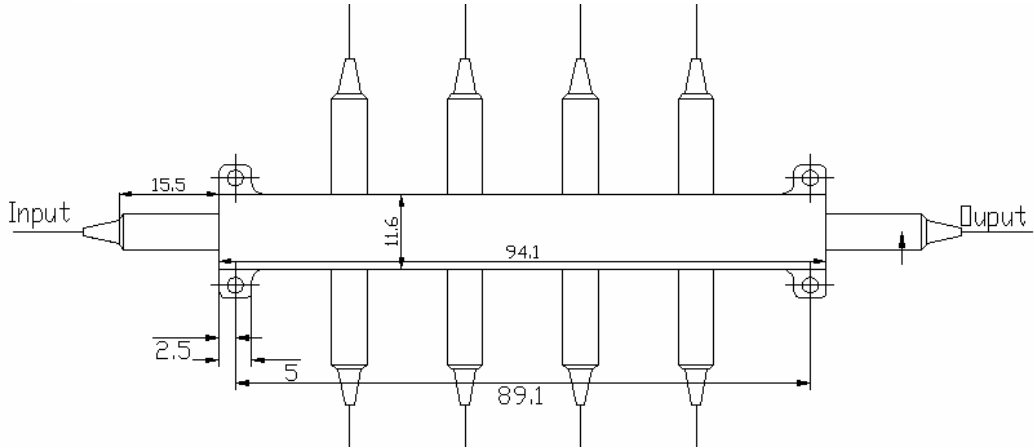
NSTD Series Photonic Delay Line	Min	Typical	Max	Unit
Wavelength band	1530	1550	1570	nm
Insertion Loss	3.0	3.5	4.2	dB
Cross Talk	20	25	30	dB
Switching Time(fall, rise)		300	400	Ns
Repetition Rate			5	KHz
Delay Time Range	n		m	s
Extinction Ratio	18	25	30	dB
Return Loss	50	55	60	dB
Operating Temperature	0		60	°C
Optical Power Handling		400		mW
Storage Temperature	-40		85	°C
Package Dimension	(L)125.1x(W)42.6X(H)8.6			mm

Applications

- phase-array antennas
- Instrumentation

Nano Speed™ PM Variable Photonic Time Delay

Mechanical Dimensions (mm)



Ordering Information

NSTD-	4 2	<input type="checkbox"/>	1	1		<input type="checkbox"/>	0	<input type="checkbox"/>
	Type	Wavelength	Configuration	Package	Fiber Type		Delay Range	Connector
	4 Bits = 42 Special=00	1550 = 5 Special = 0	Fiber on 2 side = 1		Panda 400=4 Panda 250=5 Special=0	Bare fiber = 1 900um loose tube=3 Special=0	Custom	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC = 7 Special = 0