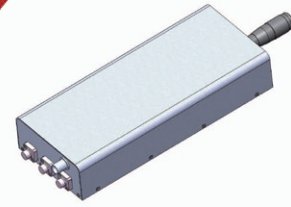
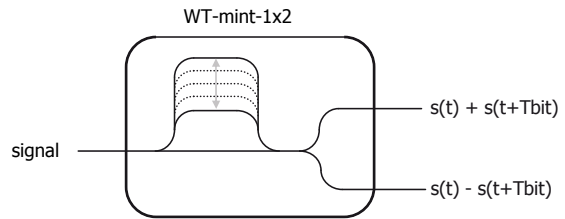
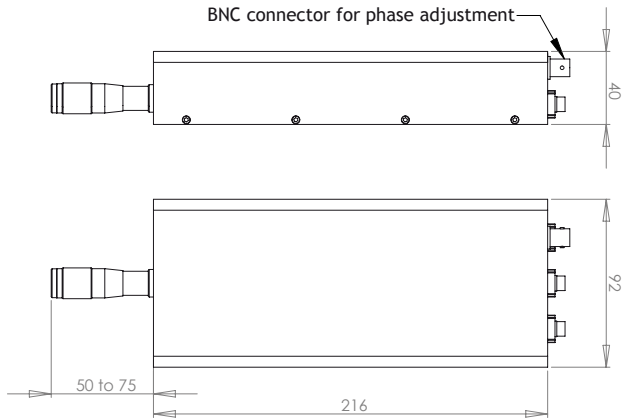


KyLia THE FIBER OPTIC INTERFEROMETERS

WT-mint-1x2 widely tunable DPSK demodulator



WT-mint is a delay line interferometer, where the length of one arm can be tuned:
 The delay between both arms is adjustable from 0 to 150 ps with a micrometer or a USB motorized actuator.
 For DPSK application, the phase tuning can be performed with two options:
 - Low-voltage phase tuning using a heater
 - Ultra-fast phase tuning using a piezo actuator



FSR tuning control	unit	M: manual micrometer		P: piloted motorized actuator	
		low voltage	ultra-fast	low voltage	ultra-fast
Phase tuning control					
Frequency range	THz	191 to 197			
Insertion Loss	dB	< 2.5			
PDL	dB	< 0.5			
Extinction Ratio	dB	> 18			
Optical Return Loss	dB	> 35			
PDFS	%FSR	< 3			
IL uniformity	dB	< 0.5			
Skew (delay between balanced outputs)	ps	< 1			
Phase tuning range	FSR	> 1.5			
Tuning time constant (0 to 50%)	s	< 1	-	< 1	-
Tuning time constant (0 to 100%)	μs	-	< 20	-	< 20
Tuning voltage	V	0 to 4	0 to 100	0 to 4	0 to 100
FSR tuning range	GHz	10 to infinite		10 to infinite	
Delay tuning range	ps	0 to 150		0 to 125	
Delay tuning resolution	fs	70		15	
Delay tuning precision	fs	± 20			
Power consumption (phase tuning)	W	< 0.5	0.001	< 0.5	0.001
Power consumption (FSR tuning)	W	NA		< 40	
Electrical connectors (phase tuning)		BNC			
Electrical interface (FSR tuning)		NA		USB	
Max. Input Optical Power	mW	300			
Operating Temperature Range	°C	+15 to +40			
Storage Temperature Range	°C	-40 to +85			
Package dimensions	mm	216 x 92 x 40		19" RACK 1U (482.6x292x44.5)	

ordering information

WT-mint-1x2 -

