

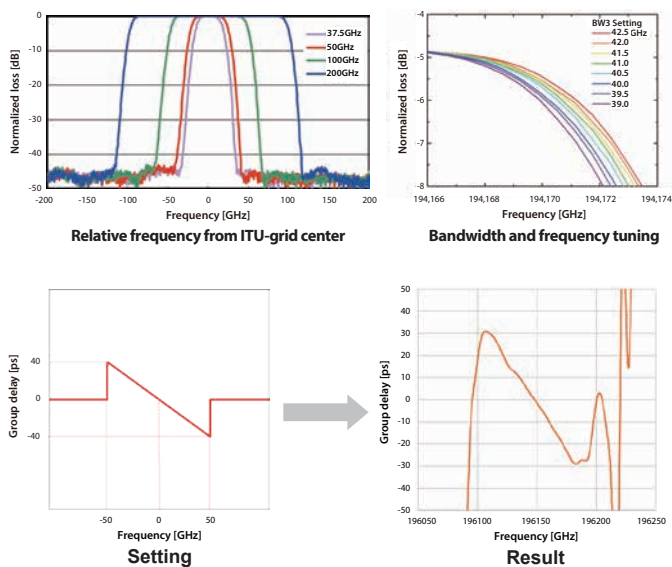
NEW

可编程光波处理器 WSS-2000

WSS-2000是一款基于Santec专利的硅基液晶(LCOS)技术的可编程光波处理器。具有高度的灵活性，用户能够对各种光学滤波、衰减和开关方案进行编程。此外，该设备还具备相位调制功能。WSS-2000在很多方面有着广泛的应用，可通过使用滤波器作为高速信号的光平衡器应用于下一代光纤网络，还可以作为自适应多通道滤波器用于先进的光纤传输系统(DWDM, OFDM)，作为灵活的测试测量系统或是WSS仿真器。



测量数据



The following items can be set as parameters for the phase control function

- Phase Setting
- Group delay Setting
- Chromatic dispersion Setting

特征

- ▶ 生成可任意编辑的波形及脉冲整形
- ▶ 基于 LCOS 的高分辨率波长和频带可控。
波长·频带设定分辨率: 0.78 GHz
- ▶ 出色的光学滤波, 边缘更为陡峭
400 dB/nm(典型值)
- ▶ 光开关构成(1×1, 1×2, 1×4)
- ▶ 可选相位控制功能

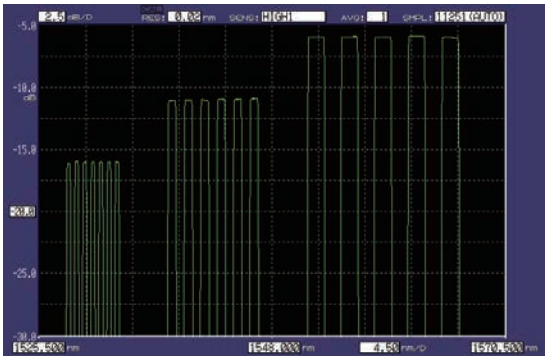
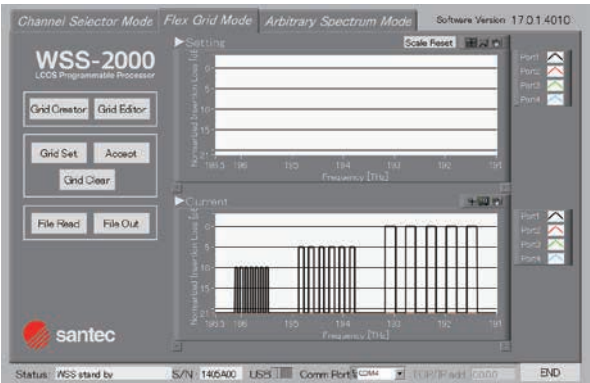
应用

- ▶ 基于高速信号用光均衡器的光放大器的评价及实验
- ▶ 波分复用器 (WDM) 100 Gb/s、400 Gb/s 等高速传输测试
- ▶ 可调和自适应DWDM, OFDM信道滤波
- ▶ 灵活的测试与测量
- ▶ 下一代光束波长OXC
- ▶ 脉冲整形
- ▶ 光通信发生
- ▶ 波长选择开关 (WSS) 模拟器

性能指标

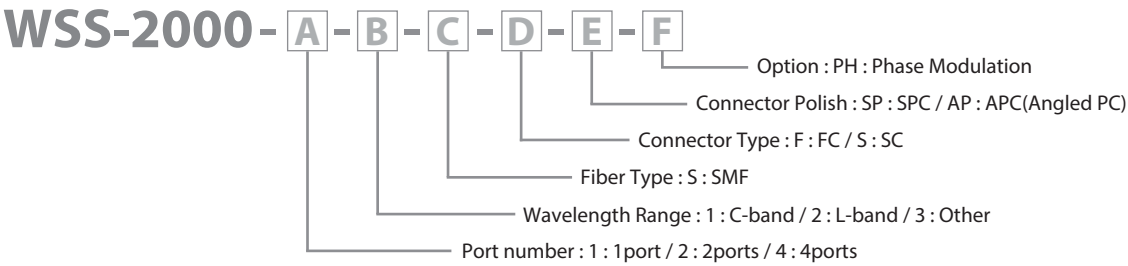
Category	Parameter	Unit	Min.	typ.	Max.	Notes
Filter Control	Operating frequency range	THz	191.250		196.150	
	Operating wavelength range	nm	1528.383		1567.543	
	Frequency setting accuracy	GHz	-2.5		2.5	
	Frequency setting resolution	GHz	0.78			
	Operating bandwidth range	GHz	10		4900	
		nm	0.08		39	
	Bandwidth setting accuracy	GHz	-5		5	
	Bandwidth setting resolution	GHz	1.56			
	Attenuation control range	dB	0		20	
	Attenuation setting resolution	dB	0.01			
	Attenuation setting accuracy 1	dB	-0.2		0.2	Attenuation 1.0-2.0 dB
	Attenuation setting accuracy 2	dB	-0.5		0.5	Attenuation 2.1-5.0 dB
	Attenuation setting accuracy 3	dB	-1		1	Attenuation 5.1-15.0 dB
	Filter edge slope	dB/nm		400		
	Group Delay Control Range	ps	-25		25	Option
Switching	Number of input ports		1			
	Number of output ports		1, 2 or 4			
	Setting time	msec		500		Depending on setting spectrum
Loss and Dispersion	Insertion loss	dB		5.5	6.5	Bandwidth@-3 dB > 25 GHz
	Insertion loss uniformity	dB		1.1	2.5	
	Polarization dependent loss (PDL)	dB			0.8	Attenuation 0-10.0 dB
	Return loss	dB	30	35		
	Extinction ratio	dB	35	40		
	Differential Group Delay (DGD)	ps		0.2	0.5	
Optical power	Maximum total input power	dBm			27	
	Maximum per-channel optical power	dBm			13	
Environmental	Operating temperature	degC	15		35	
Electrical	Power supply	V	Input AC 100-240 V 50-60 Hz			
	Power consumption	VA			15	
	Communication interface		Ethernet			
Mechanical	Dimensions (W) x (D) x (H)	mm	210 x 350 x 88			
	Weight	kg	4			

GUI of Control Software



Optical Spectrum Analyzer

Ordering Code



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