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VOA500

Standard type multi-way voltage-controlled optical attenuator

PRODUCT DESCRIPTION

VOA500 series assemble multi high-resolution electricity controlled optical attenuators into 1RU or 3D housing, mainly applied to optical adjustment and automatic equilibrium in DWDM system's and multi-channel network and optical amplify network.

VOA500 is a standard type product. Each attenuator with an attenuation value of monitoring. RS232 and RJ45 provide serial communication and SNMP network interface. LCD on the front panel provides every work parameter and fault alarm of the whole unit. All the optical port can install on the front panel or back panel. (W)×(D)×(H)



PRODUCT FEATURE

- ▶ High efficiency space, 1RU casing can contain16ways optical attenuator.
- ► High resolution, ≤0.1dB
- High-accuracy optical input and output power monitor and display.
- Attenuation range 20dB, 30dB, 35dB, 40dB, 45dB optional.
- Equipment power has three attenuation states to choose from.
- Low insertion loss.
- ► Low wavelength dependence loss.
- ► Low polarization dependence loss.
- Front panel LCD displays working status and parameters.
- ► Completed RS232 and SNMP.
- Excellent P/P ratio in this area.

MAIN APPLICATION

- DWDM system, power adjustment and automatic equalization in multi-channel.
- ▶ Power control into narrowband wavelength division multiplexers (WDMs) and configurable networks.

▶ In Lab.



TECHNIQUE INDEX

Performance		Index				
		Min.	Тур.	Max.	Supplement	
Optical feature	Operating wavelength range	(nm)	1200		1620	
	Optimum operating wavelength range	(nm)	1525		1575	
	Resolution	(dB)			0.1	
	Minimum attenuation	(dB)		0.7	1.2	
	Attenuation range	(dB)	20			VOA520
			30			VOA530
			35			VOA535
			40			VOA540
			45			VOA545
	Attenuation setting accuracy	(dB)	-0.2		+0.2	
	Attenuation monitor accuracy	(dB)	-0.2		+0.2	
	Tuning speeed	(ms)		20		
	Polarization mode dispersion	(ps)			0.1	
	Polarization dependence gain	(dB)			0.2	
	Polarization dependence loss	(dB)			0.3	
	Wavelength dependence ripple	(dB)			0.2	
	Temperature-related attenuation	(dB)			0.15	
	Power handling	(mW)			500	
	Return loss	(dB)	-50			PC
	Power attenuation state (with unit powered off)		Keep ATT/Keep			K grade
			Open ATT/Min			O grade
			Closed ATT≥40dB			C grade



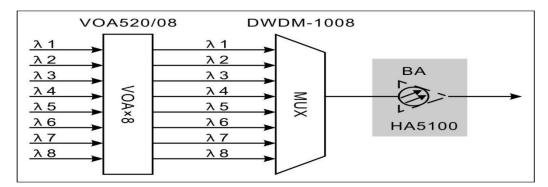
W GT LASERS WW						www. gtlasers. com
General feature	SNMP network management interface		RJ45			
	Series interface		RS232			
	Power supply	(V)	90		265	220VAC
			30		72	-48VDC
	Power consume	(W)			50	
	Operating temp.	(°C)	0		65	
	Storage temp.	(°C)	-40		80	
	Relative humidity	(%)	5		95	
	Size (W)×(D)×(H)	(")	19×14.5×1.75			1RU (19")
			19×14.5×1.75			
			12.4×15.4×5.25			3D (12.4", desk-type)



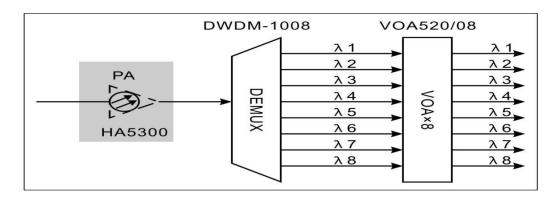
APPLICATION LEGEND

The application of VOA500 used in DWDM system:

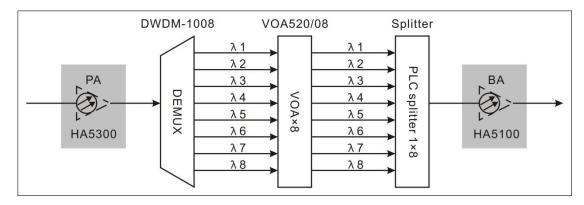
1. Multiplexing:



2. Demultiplexing:



3. Line:





PRODUCT SERIES

Mode	Attenuate range	Attenuator value	Power down attenuate status	Peak working wavelength	Electronic interface
VOA520/01-KC		1 way			
VOA520/04-KC	20dB	4 way	Keep original set	C-Band	RS232, RJ45,
VOA520/08-KC		8 way	attenuate status	1525~1575nm	SNMP
VOA520/16-KC		16 way	-		
VOA535/01-KC		1 way	Keep original set attenuate status	C-Band 1525~1575nm	RS232, RJ45, SNMP
VOA535/04-KC	- 35dB	4 way			
VOA535/08-KC		8 way			
VOA535/16-KC	-	16 way			
VOA540/01-KC	40dB	1 way	Keep original set attenuate status	C-Band 1525~1575nm	RS232, RJ45, SNMP
VOA540/04-KC		4 way			
VOA540/08-KC		8 way			
VOA540/16-KC		16 way			
VOA530/01-CC		1 way	Closed, turn off,		
VOA530/04-CC		4 way		C-Band	RS232, RJ45,
VOA530/08-CC	- 30dB	8 way	Maximum attenuate	1525~1575nm	SNMP
VOA530/16-CC		16 way			
VOA540/01-CC		1 way			
VOA540/04-CC	10.15	4 way	Closed, turn off, Maximum attenuate	C-Band	RS232, RJ45,
VOA540/08-CC	40dB	8 way		1525~1575nm	SNMP
VOA540/16-CC		16 way			
VOA530/01-OC	-	1 way	Closed, turn off,	C-Band	RS232, RJ45,
VOA530/04-OC		4 way			
VOA530/08-OC	- 30dB	8 way	Maximum attenuate	1525~1575nm	SNMP
VOA530/16-OC	1	16 way			



MODEL EXPLANATION

