

VOA700

High accuracy multi-way voltage-controlled optical attenuator

PRODUCT DESCRIPTION

VOA700 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.

VOA700 series is a high-end product series. Each attenuator has high-resolution input and output optical power monitoring and attenuator value monitoring, with automatic mode and manual mode. Client can set the automatic fixed attenuation mode and automatic fixed output mode in automatic mode. 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.

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.
- ▶ Detection and display of high-precision attenuation.
- ▶ Can be set to automatic fixed power output mode.
- ► 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

			Index						
	Performance		Min.	Тур.	Max.	Supplement			
	Operating wavelength range	(nm)	1200		1620				
	Optimum operating wavelength range	(nm)	1525		1575				
	Resolution	(dB)			0.1				
	Minimum attenuation	(dB)		0.7	1.2				
			20			VOA720			
			30			VOA730			
	Attenuation range	(dB)	35			VOA735			
			40			VOA740			
			45			VOA745			
	Attenuation setting accuracy	(dB)	-0.1		+0.1				
Opti	Attenuation monitor accuracy	(dB)	-0.2		+0.2				
Optical feature	Tuning speeed	(ms)		20					
ture	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			
			Keep	ATT	/Keep	K grade			
	Power attenuation state (with unit powered off)		Oper	n AT	Γ/Min	O grade			
	,		Closed	d ATT	≥40dB	C grade			
	Input optical power detection range	(dBm)	-50		+27				



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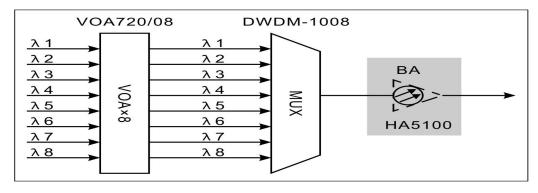
	Output optical power detection range	(dBm)	-50		+27		
	Detection accuracy	(dB)	-0.1		+0.1		
	Fixed output error	(dB)	-0.15		+0.15	Automatic mode	
	SNMP network management interface			RJ45			
	Series interface			RS232			
	Davies armalı.	0.0	90		265	220VAC	
	Power supply	(V)	30		72	-48VDC	
Gen	Power consume	(W)			50		
General feature	Operating temp.	(°C)	0		65		
ature	Storage temp.	(°C)	-40		80		
	Relative humidity	(%)	5		95		
		(")		19×11×1.75	4DH (40%)		
	Size (W)×(D)×(H)			19×14.5×1.75	1RU (19")		
				12.4×15.4×5.25	3D (12.4", desk-type)		



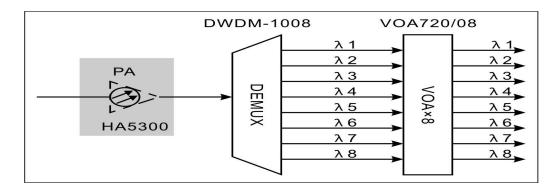
APPLICATION LEGEND

The application of VOA700 used in DWDM system:

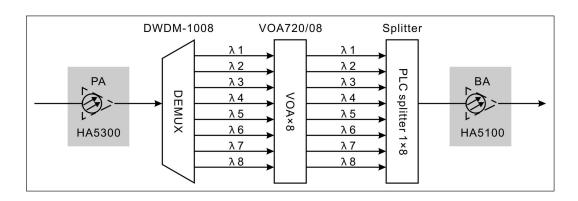
1. Multiplexing:



2. Demultiplexing:



3. Line:





PRODUCT SERIES

Mode	Attenuate range	Attenuator value	Power down attenuate status	Peak working wavelength	Electronic interface		
VOA720/01-KC		1 way					
VOA720/04-KC	00 10	4 way	Keep original set	C-Band	RS232, RJ45,		
VOA720/08-KC	20dB	8 way	attenuate status	1525~1575nm	SNMP		
VOA720/16-KC		16 way					
VOA735/01-KC		1 way					
VOA735/04-KC	<35dB	4 way	Keep original set	C-Band	RS232, RJ45,		
VOA735/08-KC		8 way	attenuate status	1525~1575nm	SNMP		
VOA735/16-KC		16 way					
VOA740/01-KC		1 way					
VOA740/04-KC		4 way	Keep original set	C-Band	RS232, RJ45, SNMP		
VOA740/08-KC	35~40dB	8 way	attenuate status	1525~1575nm			
VOA740/16-KC		16 way					
VOA730/01-CC		1 way					
VOA730/04-CC		4 way	Closed, turn off,	C-Band	RS232, RJ45,		
VOA730/08-CC	30dB	8 way	Maximum attenuate	1525~1575nm	SNMP		
VOA730/16-CC		16 way					
VOA740/01-CC		1 way					
VOA740/04-CC		4 way	Closed, turn off,	C-Band	RS232, RJ45,		
VOA740/08-CC	40dB	8 way	Maximum attenuate	1525~1575nm	SNMP		
VOA740/16-CC		16 way					
VOA730/01-OC		1 way					
VOA730/04-OC		4 way	Closed, turn off,	C-Band	RS232, RJ45,		
VOA730/08-OC	30dB	8 way	Maximum attenuate	1525~1575nm	SNMP		
VOA730/16-OC		16 way					



MODEL EXPLANATION

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Product series		Product type		nge of nuation		ımber of tenuator	Power-down attenuation state			Optimized working wavelength Exterior		Optical port position		Connector		Power supply		
Drive-by-wire adjustable		High degree of accuracy, top-class, with input & output power monitor, automatic control mode.	20	20dB	01	1 way	к	To keep the original settings attenuation Normally open, small amount of attenuation		C-Band	1U	19" 1RU	F	Front panel	FA	FC/APC	22	220VAC
attenuator	7		30	30dB	04	4 ways				L-Band	2U	19" 2RU	В	Back panel	FP	FC/UPC	11	110VAC
		RS232, SNMP	35	35dB	08	8 ways	_			O-Band	3D	Desk-type			SA	SC/APC	48	-48VDC
		Standard type, with	40	40dB	16	16 ways	0				ML	Modulator			SP	SC/UPC		
	5	decrement monitoring, RS232, SNMP	45	45dB				Normally closed, large				Appearance			LA	LC/APC		
	3	3 Utility-type, without monitor, RS232			' [С	of amount of attenuation			OEM	user customized			LP	LC/UPC		