

VOA230 Series • Electric Mode Manual  
variable optical attenuator

Technical index

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## **1.0 PRODUCT DESCRIPTION**

VOA230 voltage-controlled manually variable optical attenuator, use adaptor type optical connector, is featured as portable, succinct, and low cost. Compared with mechanical manually variable optical attenuator, VOA230 is characterized by high reliability, avoiding mechanical damage. The attenuation value can be changed and set by turning the regulation resistance, dynamic range 20~30dB. It can be applied flexibly to system which requires adjustable optical power and lab test

## **2.0 PRODUCT FEATURE**

- Continuously adjustable, 30dB dynamic range
- High resolution
- Compared with mechanical attenuator, VOA230 is difficult to be damaged
- Compact, cost-efficient
- Thermal stability
- Portable, easy to use

## **3.0 MAIN APPLICATION**

- Receiver input power adjustable
- EDFA output power adjustable
- Optical power equalization
- System testing
- Laboratory application

## 4.0 TECHNICAL INDEX

Performance		Index			Supplement
		Min	Typ	Max	
Operating wavelength range	(nm)	1520		1600	
Optimum operating wavelength		1525		1575	
Dynamic range	(dB)	20		30	1525~1565
Insertion loss	(dB)		1.5	2.5	
Resolution	(dB)		0.02	0.1	
Polarization dependence loss	(dB)			0.15	0 to 15dB
				0.3	15 to 30dB
Wavelength dependence loss	(dB)		0.2	0.8	0 to 20dB
Polarization mode dispersion	(ps)			0.05	0 to 20dB
Power handling	(mW)			500	
Optical return loss	(dB)	45			
Optical connector		SC/APC			Option FC, LC
Operating voltage	(V)	90		265	
Power consume	(W)			3	
Operating temp.	(°C)	-5		75	
Storage temp.	(°C)	-40		+85	
Weight	(kg)		0.25		
Size	(mm)	2.3×3.9×0.9 59×98×23			(W×D×H)

## 5.0 Model explanation

VOA 2 30 - S A

Product series	Product type		Range of attenuation		Connector	
	Manual Variable Attenuator	1	Mechanical type	30	30dB	SA
2		Electric mode			SP	SC/UPC
					FA	FC/APC
					FP	FC/UPC
					LA	LC/APC
					LP	LC/UPC