

DESCRIPTION

KOC MEMS Variable Optical Attenuator is based on a micro-electro-mechanical system featuring compact design, easy direct drive and excellent optical performance.

The MEMS VOAs are used for distributed power equalization within ROADMs, MUX/DEMUX, Band Equalizers, Channel Equalizers, Optical Cross-Connects, Line Cards and Transponders.

MEMS VOAs can be applied for all optical fields requiring input power adjustments of optical signals.



Features

- Compact Package
- High Repeatability,
- High Reliability
- Low IL, PDL, WDL and TDL
- Low Power Consumption
- Qualified to GR-1221

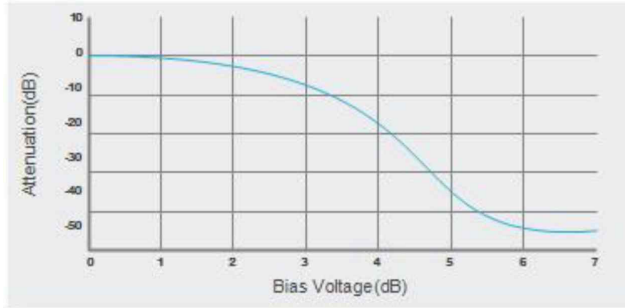
PRODUCT

PARAMETER	RATING			
	Min	Typical	Max	Unit
Operation Bias			7	V
Insertion Loss		0.6	1	dB
WDL (C Band)	0 to 10 dB	0.4	0.7	dB
	10 to 20 dB	0.7	1.0	dB
PDL	0 to 10 dB	0.2	0.3	dB
	10 to 20 dB	0.3	0.5	dB
Attenuation Slope			20	dB/V
Attenuation Range	30	35	40	dB
Attenuation Resolution	Continuous			
Back Reflection			-45	dB
Optical Power handling**		300	500	mW
Power Consumption		80	130	mW
Response Time		3	5	ms
Repeatability			0.1	dB
Durability	10 ⁹			cycles
Fiber Type	Corning SMF28 or equivalent			
Operating Temperature	-5		75	°C
Storage Temperature	-40		85	°C

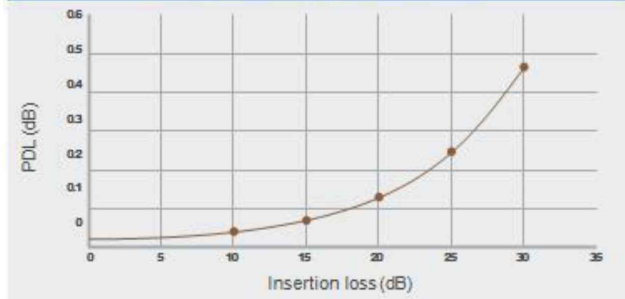
* All specifications at room temperature, excluding connectors.

** Over this value will damage the device.

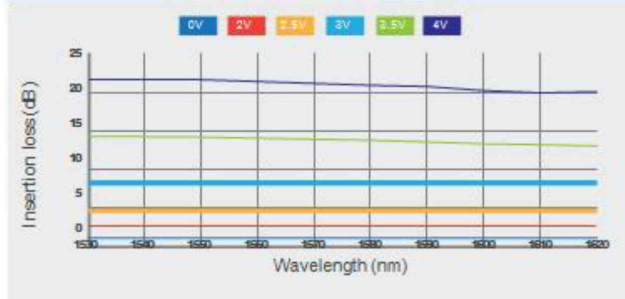
2 Graph



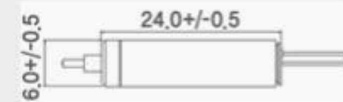
Polarization Dependent Loss



Wavelength Dependent Loss



3 Dimension



4 Order Information

K-mVOA-□ - □ - 00 - □ - 00 - 00

VOA-type	Wavelength	Attenuation	Fiber Mode	Length	Connect
B: Bright D: Dark	C: C-band L: L-band CL: C~Lband	30: <30dB@5V 35: <35dB@5V 40: <40dB@5V	S: Single Mode M: Multi Mode	10: 1.0m 05: 0.5m	F1: FC/APC F2: FC/PC S1: SC/APC S2: SC/PC L1: LC/APC