

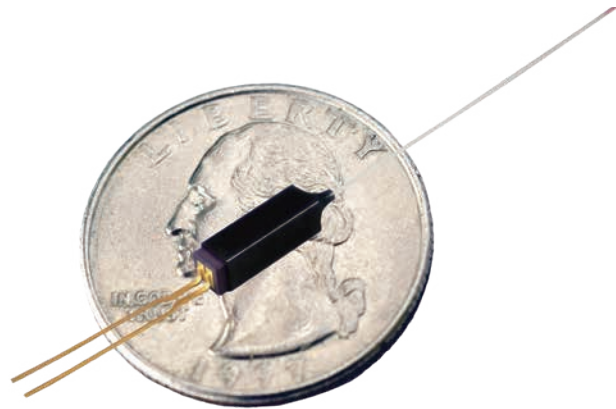


Compact MEMS Attenuator

COVA-1

Product Overview

Santec's COVA-1 is the Ultra-Compact optical variable attenuator based on electrostatic MEMS technology. Santec's variable attenuator series is excellent for high density integration in next generation small form factor packages.

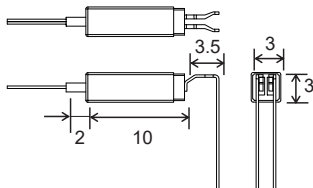


Features

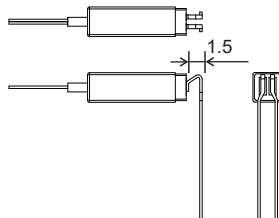
- Ultra-Compact size
- Bright / Dark types available
- Low power consumption
- Telcordia GR-1221 qualified
- Shock and vibration resistant design
- Minimum fiber bending radius of 5 mm

Dimensions Unit [mm]

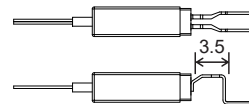
<Through hole/
High soldering temperature type>



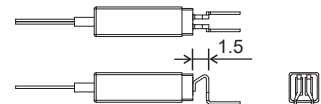
<Through hole/
Low soldering temperature type>



<Surface mount/
High soldering temperature type>



<Surface mount/
Low soldering temperature type>



<Lead frame> Pitch: 1.75 mm, Width: 0.25 mm

<Soldering conditions> High Temperature: 350°C, <5sec or 400°C, <2sec
Low Temperature: 260°C, <10sec

Specifications

Category	Parameter	Unit	Min	Max	Notes
Optical	Attenuation Type	-	Bright or Dark		
	Wavelength	nm	1530	1570	C-band
			1570	1610	L-band
	Insertion Loss	dB		0.8	Without connectors
	Attenuation Range	dB	40		
	Polarization Dependent Loss @20 dB attenuation	dB		0.4	
	Return Loss	dB	45		
Electrical	Response Time	ms		3	10-90%
	Drive Voltage	V		6.5	
	Power Consumption	mW		1	
Environmen	Operating Temperature	°C	-5	70	<85%RH, Non condensation
	Storage Temperature	°C	-40	85	<85%RH, Non condensation
Mechanical	Package Dimensions	mm	3x3x10		
	Fiber Type	-	Corning ZBL equivalent		

Ordering Code

COVA-1 - A - B - C - D

Connector Type: 00: no connector / SC: SC-SPC / LC: LC-SPC / MU: MU-SPC

Lead form type
TH: Through hole & High temperature type / TL: Through hole & Low temperature type
SH: Surface mount & High temperature type / SL: Surface mount & Low temperature type

Wavelength range: C: C-band / L: L-band

Activation Type: B: Bright type / D: Dark type