

# Compact Spectrum Analyzer ( C+L band )

The LiComm CSA-F series is very compact optical spectrum analyzer in C-band and L-band optical communication window. The module is detected by photo diode and analyzed by digital signal processing (DSP) circuitry, The analyzed data transmits to system via a serial or a parallel interface. This module provides attractive solution of performance and cost in channel monitoring and gain equalization on optical network systems. The device is good enough to save space in system and intended for original equipment manufacturers (OEMs). It also can be used personal handy optical spectrum analyzer in the optical communication field.



## Features

- ▶ Wide wavelength range over C+L-band
- ▶ Excellent wavelength measurement accuracy
- ▶ High sensitivity
- ▶ High dynamic range
- ▶ Low noise floor
- ▶ Fast scan speed
- ▶ No need wavelength calibration
- ▶ RS232 or DPRAM interface
- ▶ Cost effective
- ▶ Compact, card-mountable design
- ▶ Cost effective

## Applications

- ▶ Channel equalization of DWDM systems based on optical power or OSNR
- ▶ Optical add/drop monitoring
- ▶ Real-time optical channel monitoring of optical networks
- ▶ Physical layer monitoring for provisioning and debugging optical networks
- ▶ OEM module for field test equipment application
- ▶ Hand carry equipment

## Optical Characteristics

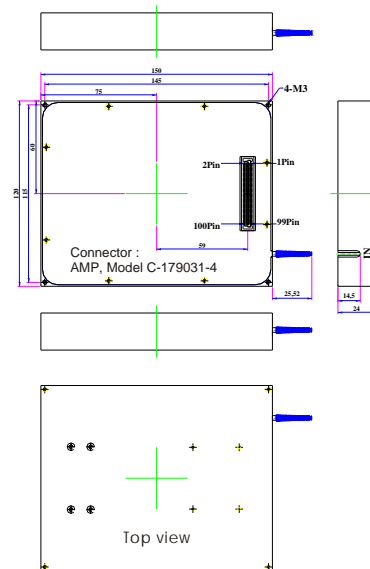
Parameter	Symbol	Min	Typ	Max	Unit
Wavelength range	$\lambda$	1525	-	1605	nm
Wavelength accuracy		-25	-	25	pm
Power repeatability		-0.5	-	0.5	dB
Input power range <sup>1)</sup>		-40	-	0	dBm
Noise floor		-	-60	-	dBm
Dynamic range		-	40	-	dB
Minimum channel spacing			25		GHz
OSNR(@100GHz spacing)			30		dB

Note 1) This condition is single wavelength input power.

## Electrical & Environmental

Parameter	Typical value
Power supply voltage	+5 V
Interface	RS232, DPRAM
Operating temperature	0 ~ 70 °C
Storage temperature	-40 ~ 85 °C
Storage humidity	0 ~ 95% R.H

## Mechanical Dimension (150 X 120 X 24 mm)



## Ordering Information

CSA - F - X<sub>1</sub>  
 X<sub>1</sub> : M(Module), B(Bench Top)