



## ED 5219 Series

CATV Single Channel  
EDFA

**ACI** Communications, Inc. 

## Overview

The ACI ED 5219 EDFA is operated on constant output power mode, single channel EDFA designed to amplify channels in the wavelength range from 1540nm to 1560nm. The ACI ED 5219 EDFA has a maximum total output power as defined. The monitoring, alarm functions and system information are provided with real time display on the front LCD panel and LED indicators. RS232 interface for remote control is available, and RJ45 interfaces for SNMP management is available by option.

## Features

- A high performance optical output driver circuit and laser TEC to provide a highly reliable EDFA.
- A Built-in microprocessor allows the unit to monitor the system parameters.
- The pump laser auto shut down function is available.
- LED indicator on the front panel shows the alarm status.
- LCD display on the front panel shows the monitor parameters.
- Support firmware upgrade download.
- Support SNMP for network management (option).

## Specifications

ACI Communications, Inc.		ED 5219 Series			
PARAMETERS	CONDITIONS	UNITS	SPECIFICATION		NOTES
<b>Absolute Maximum Ratings</b>			Value Min.	Value Max.	
<b>Operating Case Temperature</b>		°C	0	50	
<b>Storage Case Temperature</b>	2000 hrs Max.	°C	-20	+70	
<b>Electrostatic discharge(ESD)</b>	C=100pf , R=1.5R Human body mode	V	0	1000	
<b>Relative humidity</b>	Non condensing	%	20	80	
<b>Power Consumption</b>	@13 dBm			10	
	@14 dBm			11	
	@15 dBm			12	
	@16 dBm			13	
	@17 dBm			15	
	@18 dBm			17	
	@19 dBm			18	
	@20 dBm			20	
	@21 dBm			21	
@22 dBm			22		
@23 dBm			27		

## Specifications

ACI Communications, Inc.		ED 5219 Series				
PARAMETERS	CONDITIONS	UNITS	SPECIFICATION			NOTES
<b>Environmental condition</b>			Min.	Typ.	Max.	
Operation Case Temperature		°C	0		50	
Operation Humidity		%RH	20		80	Without Condensation
Storage Case Temperature		°C	-20		70	
Storage Humidity		%RH	20		80	Without Condensation
<b>Optical Specifications</b>			Min.	Typ.	Max.	
Optical Wavelength	In vacuum	nm	1540	-	1560	
Total Input Power	@ $\lambda_{OP}=1550\text{nm}$	dBm	-5		+8	
Saturated Output Power	@ Pin $\geq -5$ dBm @ $\lambda_{OP}=1550\text{nm}$	dBm	pout	pout +0.3	pout +1	
Output Power Stability	Over $\lambda_{OP}$	dB			0.5	
Noise Figure@Pin=0dBm	$\leq 23$ dBm	dB	-		5.0	
PDG	Over $\lambda_{OP}$	dB	-	-	0.5	
PMD	Over $\lambda_{OP}$	ps	-	-	0.5	
Return Loss	All ports	dB	45			
Input Isolation		dB	25			
Output Isolation	$\leq 17$ dBm $\leq 23$ dBm	dB	25 45			
Operating Case Temperature	Over $\lambda_{OP}$	°C	0		50	
Rump Used	@ $\leq 22$ dBm @ 23 dBm			1 2		
Remnant Pump LD Power	970 ~ 980 nm	dBm			-30	
Control Mode	APC/ACC			APC		
<b>Mechanical Specifications</b>						
Dimension	W x L x H	mm	482.6 x 330 x 44.4			19" 1RU Rack
Power Supply			Single Power, 100~240VAC, 50/60Hz			Connector : CNS6797
Pump Laser Switch			Push Button			
LED Indicators			Power, Input, Output, System			
LCD Display			Array 2x24			
User Interface			RS232 · RJ45( option )			
Optical Connector			SC/APC, FC/APC			

Ordering Matrix

ACI ED 5219 Series Configuration Sheet

Customer: \_\_\_\_\_

Created By: \_\_\_\_\_ Order Date: \_\_\_\_\_

ORDERING MATRIX

2010/10/29

Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>PART NUMBER</b>	<b>E</b>	<b>D</b>	<b>5</b>	<b>2</b>	<b>1</b>	<b>9</b>		—		—					

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**CONTROL INTERFACE**

- 0: None (Default)
- 1: SNMP (RJ45)
- 2: RS232

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**MAIN POWER**

- 1: 110/220 VAC (Default)
- 2: Dual 110/220 VAC

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**OUTPUT PORT**

- 1: 1 output port (Default)
- 2: 2 output ports
- 4: 4 output ports

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**POWER CORD SETS**

- 0 = None
- 1 = North America
- 2 = International / Europe
- 3 = Japan
- 4 = Australia
- 5 = Argentina
- X = Custom - (Determined by product management)

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**OUTPUT POWER (per port)**

- 13: 13 dBm      Selectable range
- 14: 14 dBm      1port: 13 ~ 26 dBm
- 15: 15 dBm      2port: 13 ~ 22 dBm
- 16: 16 dBm      4port: 13 ~ 19 dBm
- 17: 17 dBm
- 18: 18 dBm
- 19: 19 dBm
- 20: 20 dBm
- 21: 21 dBm
- 22: 22 dBm
- 23: 23 dBm
- 24: 24 dBm
- 25: 25 dBm
- 26: 26 dBm

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**OPTICAL CONNECTOR**

- 1: SC/APC w/Shutter
- 2: FC/APC

NOTES:

ACI Communications, Inc. reserves the right to discontinue the manufacture or change the specifications without prior notice on any parts illustrated in the data sheet.

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Rev. C 10-29-10 **ACI Communications, Inc.**