

GP750 PROGRAMMABLE INSTRUMENT

MULTI-CHANNEL ATTENUATOR PLUG-IN MODULE

DiCon's Attenuator Plug-In Module provides the capability to add a controlled amount of loss to an optical path. Each Plug-In Module is designed for easy integration into DiCon's GP750 modular system. All plug-in modules require no configuration and are hot swappable, providing true plug-and-play functionality.



FEATURES

- Precise repeatability
- Fast response time
- MEMS durability and reliability

APPLICATIONS

- Power Equalization
- OSNR Measurements
- Input Power Adjustment for EDFAs



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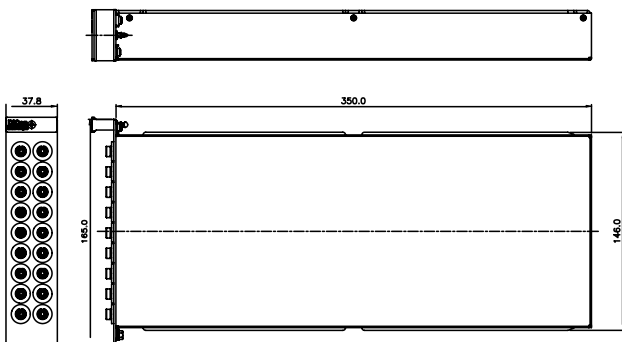
MULTI-CHANNEL ATTENUATOR PLUG-IN

OPTICAL SPECIFICATIONS^{1,8}

PARAMETER		RATING	
Excess Loss		0.8 dB max.	
WDL ²	Broad Band Application	0 to 5 dB	0.2 dB max. ³
		5 to 10 dB	0.3 dB max. ⁴
		10 to 20 dB	0.7 dB max. ⁴
PDL	Narrow Band Application ⁶	0 to 20 dB	0.2 dB max. ⁵
		0 to 15 dB	0.15 dB max. ⁵
		15 to 20 dB	0.2 dB max. ⁵
Back Reflection		-50 dB max.	
Tuning Resolution		0.01 dB max.	
Optical Power		500 mW max.	
Repeatability ⁷		0.1 dB max.	
Durability		1 x 10 ⁹ cycles min.	
Fiber Type		9/125 single mode fiber	

- All Specifications at room temperature, without connectors
- WDL is for single band wavelength measured from CWL
- Operation from 1290 - 1330nm or 1570-1610 nm adds 0.2dB
- Operation from 1290 - 1330nm or 1570-1610 nm adds 0.3dB
- Operation from 1290 - 1330nm or 1570-1610 nm adds 0.1dB
- Maximum change of each 2 nm segment within the operating range
- Repeatability is defined within 100 cycles
- DiCon recommends use of external detectors or a dynamic power equalizer module for applications requiring absolute attenuation accuracy.

MECHANICAL DIMENSIONS (Units: mm)



ORDERING INFORMATION

GPA- 1S - □ - □ - □ - □ - □ - 9 - □

Product Code

GPA Attenuator

Slot Width

1S 1-Slot Module

Number of Components

N Number of Components
(Specify 1 < N ≤ 8)

Attenuator Type

T Transparent
O Opaque

Attenuator Range

30 30 dB min.
X Specify X dB min.
(x ≤ 40)

Ripple Type

S Slow Ripple (Broad Band)
F Fast Ripple (Narrow Band)

Wavelength Range¹

13 1290 - 1330 nm
15 1528 - 1563 nm
16 1570 - 1610 nm
13/15² 1290 - 1330 nm & 1528 - 1563 nm
15/16² 1528 - 1563 nm & 1570 - 1610 nm

- Custom wavelength ranges available
- Each wavelength band will have its own attenuation curve and only one curve can be used at a time.

Fiber and Jacket Type

9 Corning SMF-28 9µm fiber
Or other equivalent 9µm Singlemode fiber

Connector Type

FC/SPC FC/SPC
FC/APC FC/APC
LC/SPC LC/SPC
LC/APC LC/APC
SC/SPC SC/SPC
SC/APC SC/APC

Other connector types are also available