

GP750 PROGRAMMABLE INSTRUMENT

DYNAMIC POWER EQUALIZER PLUG-IN MODULE

DiCon's Dynamic Power Equalizer (DPE) Plug-In Module maintains optical power at a present level for up to eight fiber channels. 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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DYNAMIC POWER EQUALIZER PLUG-IN

OPTICAL SPECIFICATIONS^{1,7}

PARAMETER		RATING	
Insertion Loss ²	1%	1.1 dB max.	
	2%	1.2 dB max.	
	5%	1.6 dB max.	
	10%	1.8 dB max.	
Dynamic Power Range	1%	-25 to 20 dBm	
	2%	-28 to 17 dBm	
	5%	-32 to 13 dBm	
	10%	-35 to 10 dBm	
Output Accuracy ³		± 0.3 dB max.	
PDL ⁴	0 - 10 dB	0.15 dB max.	
	10 - 20 dB	0.2 dB max.	
WDL Flatness	Superior	0 - 1 dB ⁴	0.3 dB max.
		1 - 5 dB ⁴	0.4 dB max.
		5 - 10 dB ⁴	0.6 dB max.
		10 - 20 dB ⁵	0.8 dB max.
	Fine ⁶	0 - 20 dB ⁴	0.2 dB max.
Back Reflection		-50 dB max.	
Tuning Resolution		0.01 dB	
Optical Power		500 mW max.	
Fiber Type		9/125 μm single mode	

- All specifications are without connectors.
- IL is measured at CWL, 23°C.
- For closed-loop operation.
- Operating from 1290 - 1330 nm or 1570 - 1610 nm adds 0.1 dB.
- Operating from 1290 - 1330 nm or 1570 - 1610 nm adds 0.3 dB.
- Maximum change every 2nm.
- DiCon recommends use of external detectors or a dynamic power equalizer module for applications requiring absolute attenuation accuracy.

ORDERING INFORMATION

GPE- 1S - □/□/□ - □ - □ - 9 - □

Product Code

GPE DPE Module

Slot Width

1S 1-Slot Module

Number of Components

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

Tap Ratio

1 1% Tap
2 2% Tap
5 5% Tap
10 10% Tap

Attenuator Range

30 30 dB min.
40 40 dB min.
*If not specified the default range is 30 dB min.
Other attenuation ranges are also available.*

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.

Flatness Type

S Superior broad band flatness
F Fine narrow band flatness

Fiber 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

MECHANICAL DIMENSIONS

(Units: mm)

