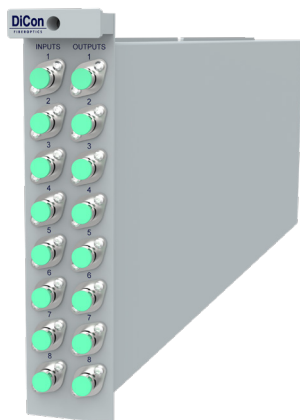


GP850 POWER MANAGEMENT

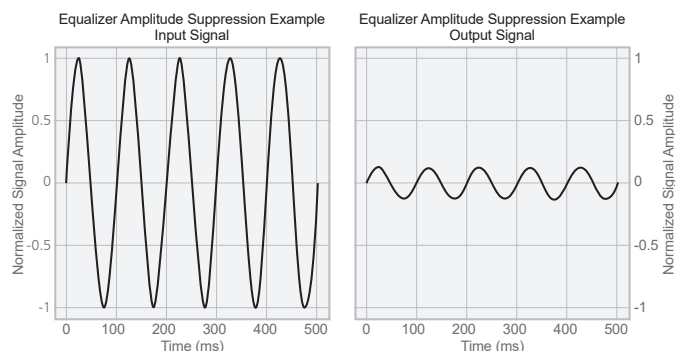
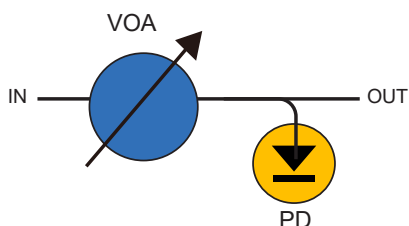
Singlemode DPE Slot Card



DiCon's **Dynamic Power Equalizer (DPE)** Slot Card maintains optical power at a present level for up to sixteen fiber channels. Each slot card is designed for easy integration into DiCon's GP850 modular system. All slot cards require no configuration and are hot swappable, providing true plug-and-play functionality.

- Constant Power Mode
- Constant Attenuation Mode
- Proven MEMS Durability and Reliability
- Compact Form Factor
- Excellent Output Accuracy
- Wide Attenuation Range
- Low Insertion Loss

Operating Principle



ORDERING INFORMATION

GP850 - SL - E - 1 - □ / □ - □ - □ - 9 - □ - □ - S - □ - N

Product Type

SL Slot Card

Device Type

E MEMS DPE

Number of Device

1 1 Device

Configuration

X/Y X Channels / Y% Tap

*Choose X ≤ 16, Y=1,2,5,10

Slot Width

1S 1-Slot Module

2S 2-Slot Module

*Custom multi-slot modules are available upon request

Attenuator Type

T Transparent

P Opaque

Fiber Type

9 9/125 μm SMF

*Other fiber options are available upon request

Test Wavelength

O 1310 nm

C 1550 nm

L 1590 nm

*Use "/" to add multiple wavelengths. E.g., O/C or O/C/L

Max Attenuation

30 30 dB Attenuation

X Specify X dB min.

*Other attenuation levels are available upon request

WDL Type

S Superior Broad Band Flatness

Connector Type

N None

FC FC/UPC

FC/APC FC/APC

LC LC/UPC

LC/APC LC/APC

SC SC/UPC

SC/APC SC/APC

*Other connector types are available upon request

Connector Key Orientation

N None

GP850 POWER MANAGEMENT

Singlemode DPE Slot Card

OPTICAL SPECIFICATIONS^{1,2}

Operating Wavelength		1260 to 1675 nm	
Insertion Loss ³	1% Tap Ratio	0.5 dB typ. // 0.8 dB max.	
	2%	0.6 dB typ. // 0.9 dB max.	
	5%	0.8 dB typ. // 1.1 dB max.	
	10%	1.0 dB typ. // 1.3 dB max.	
Dynamic Power Range	1% Tap Ratio	-47 to 25 dBm	
	2%	-50 to 22 dBm	
	5%	-54 to 18 dBm	
	10%	-57 to 15 dBm	
Relative Power Accuracy ⁴		± 0.2 dB max.	
Response Time ⁵		2 to 500 ms	
Closed Loop Bandwidth ⁶		45 Hz ⁷	
PDL ⁸	0 dB Att.	0.07 dB typ. // 0.14 dB max.	
	< 10 dB Att.	0.1 dB typ. // 0.2 dB max.	
	< 20 dB Att.	0.15 dB typ. // 0.3 dB max.	
WDL	Superior Broad Band ¹⁰	< 10 dB Att. ⁸	0.5 dB max.
		< 20 dB Att. ⁹	0.7 dB max.
Back Reflection		-50 dB max.	
Tuning Resolution		0.01 dB	
Optical Power		500 mW max.	
Fiber Type		9/125 µm single mode	

1. All specifications are measured separately at room temperature for each Test Wavelength
2. DiCon recommends the use of external detectors or a dynamic power equalizer module for applications requiring absolute attenuation accuracy
3. Measured with 3-jumper method or equivalent (See TIA/EIA 526-7)
4. For closed-loop operation when
 - output power > -27 dBm for 1% tap ratio
 - output power > -30 dBm for 2% tap ratio
 - output power > -34 dBm for 5% tap ratio
 - output power > -37 dBm for 10% tap ratio
5. The averaging time for power measurements and the control loop interval for the built-in Variable Optical Attenuator (VOA)
6. The frequency range where the system can suppress input power fluctuations by over 50%
7. When input power > -30 dBm
8. Adds 0.1 dB for dual-band operation
9. Adds 0.3 dB for dual-band operation
10. Maximum variation within the wavelength range of Test Wavelength ±20 nm

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	0 to 50°C, < 85% RH
Storage Temperature	-40 to 70°C, < 40% RH

MECHANICAL SPECIFICATIONS

Slot Width	37.8 mm
Slot Depth	487.6 mm
Slot Height	146 mm

