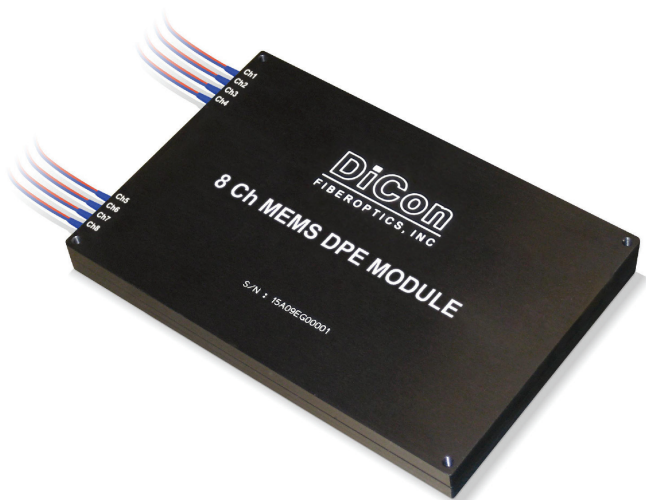


MULTI-CHANNEL MEMS DPE MODULE

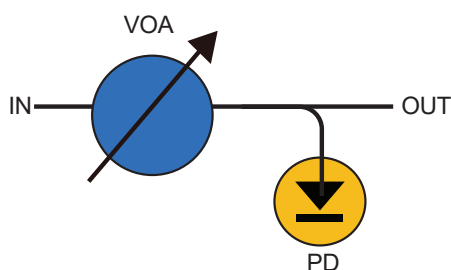
Singlemode Fiber



DiCon's **MEMS Dynamic Power Equalizer (DPE)** compensates for deviations in input optical power and maintains output optical power at a preset level for up to eight fiber channels. The DPE continuously adjusts the attenuation through closed loop feedback from output taps to DiCon's MEMS based attenuators.

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

Operating Principle



ORDERING INFORMATION

ME - ☐ - ☐ - ☐ - ☐ - ☐ - ☐ - ☐ - ☐ - ☐ - ☐

Configuration

X/Y # of Channels/
Tap Ratio %

Control Type

I2C I²C
RS2 RS-232

Test Wavelength

O 1310 nm
C 1550 nm
L 1590 nm

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

Ripple Type

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

Fiber / Jacket Type

9/TB Corning SMF-28, Tight Buffer
9/LT Corning SMF-28, Loose-tube

Connector Type

N None
FC/SPC FC/SPC
FC/APC FC/APC

**Other connector types are available upon request*

Pigtail Length

1 1 Meter
X Specify X Meters

**Tolerance is ±0.1 m*

MULTI-CHANNEL MEMS DPE MODULE

Singlemode Fiber

OPTICAL SPECIFICATIONS^{1,8}

Operating Wavelength		1260 to 1675 nm	
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	
Attenuation Range ³		30 dB min.	
Output Accuracy ⁴		±0.3 dB max.	
PDL ⁵		0 to 10 dB	0.15 dB max.
		10 to 20 dB	0.2 dB max.
WDL	Broad Band Application	0 to 10 dB ⁵	0.5 dB max.
		10 to 20 dB ⁶	0.7 dB max.
	Narrow Band Application ⁷	10 to 20 dB ⁵	0.2 dB max.
Back Reflection		-50 dB max.	
Tuning Resolution		0.01 dB	
Optical Power		500 mW max.	
Fiber Type		Singlemode	

1. All specifications are without connectors.
2. IL is measured at Test Wavelength, 23°C.
3. Available up to 40 dB. Contact DiCon for details.
4. For closed-loop operation.
5. Operating from 1290 - 1330nm adds 0.1 dB.
6. Operating from 1290 - 1330nm adds 0.3 dB.
7. Maximum change every 2nm.
8. DiCon recommends use of external detectors or a dynamic power equalizer module for applications requiring absolute attenuation accuracy.

ELECTRICAL SPECIFICATIONS

Latching Type	Non-latching
Control Type	I ² C, RS232
Vcc Voltage	5 VDC
Power Consumption	1 W max.
Connector Type	Molex 87833-1620

MECHANICAL SPECIFICATIONS

Dimensions in mm

