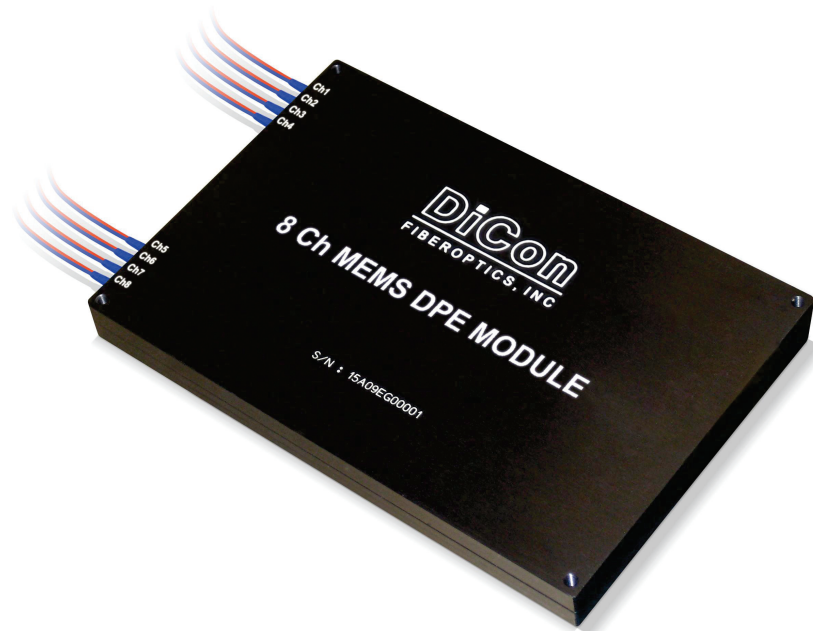


MULTI-CHANNEL MEMS DPE MODULE

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.

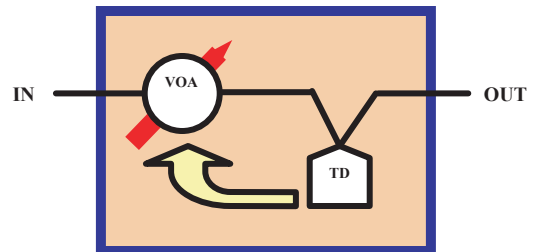


FEATURES

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

APPLICATIONS

- Optical Communications
- Fiber Sensing
- Bio-medical Instrumentation



MULTI-CHANNEL MEMS DPE MODULE

OPTICAL SPECIFICATIONS^{1,9}

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%	-27 to 17 dBm	
	2%	-27 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 - 10 dB	0.15 dB max.	
	10 - 20 dB	0.2 dB max.	
	20 - 30 dB	0.3 dB max.	
WDL	Broad Band Application	0 - 10 dB ⁵	0.5 dB max.
		10 - 20 dB ⁶	0.7 dB max.
		20 - 30 dB ⁷	1.2 dB max.
WDL	Narrow Band Application ⁸	0 - 30 dB ⁵ 0.2 dB max.	
Back Reflection		-50 dB max.	
Tuning Resolution		0.01 dB	

- All specifications are without connectors.
- IL is measured at CWL, 23°C.
- Available up to 40 dB. Contact DiCon for details.
- For closed-loop operation.
- Operating from 1290 - 1330nm adds 0.1 dB.
- Operating from 1290 - 1330nm adds 0.3 dB.
- Operating from 1290 - 1330nm adds 0.4 dB.
- Maximum change every 2nm.
- DiCon recommends use of external detectors or a dynamic power equalizer module for applications requiring absolute attenuation

ELECTRICAL SPECIFICATIONS

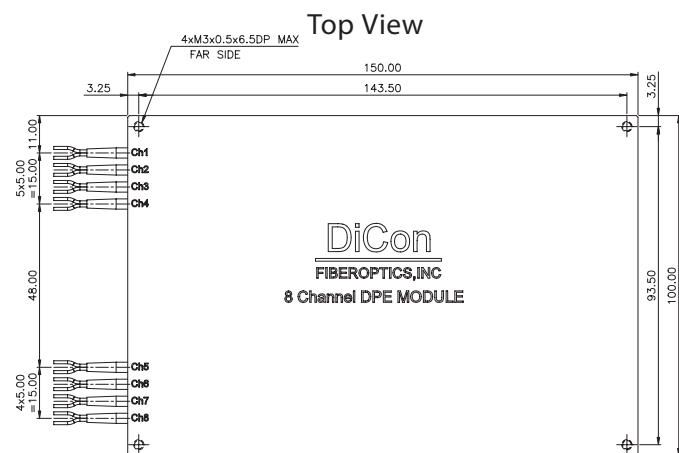
PARAMETER	RATING
Latching Type	Non-latching
Control Type	I ² C, RS232
Vcc Voltage	5 VDC
Power Consumption	1 W max.
Connector Type	Molex 87833-1620

ORDERING INFORMATION

ME - - - - - - - -

Product Code	
ME	MEMS DPE
Configuration	
X/Y	X-Ch, Y% Tap
<i>Choose X≤8, Y=1,2,5, or 10</i>	
Control Interface	
I2C	I ² C
RS2	RS232
Wavelength Range	
13	1290 - 1330 nm
15	1528 - 1563 nm
16	1570 - 1610 nm
Ripple Type	
S	Slow Ripple (Broad Band)
F	Fast Ripple (Narrow Band)
Fiber and Jacket Type	
9/TB	Corning SMF-28, Tight Buffer
9/LT	Corning SMF-28, Loose-tube
<i>Or other equivalent 9 um Singlemode fiber</i>	
Connector Type	
FC/SPC	FC/SPC
FC/APC	FC/APC
N	NONE
<i>Also Available: SC, SC/UPC, SC/APC, ST, ST/UPC, LC</i>	
Pigtail Length	
1	1 Meter
X	Specify X Meters
<i>Tolerance is +/- 0.05 m</i>	

MECHANICAL DIMENSIONS (Units: mm)



Left Side View

