

MULTI-CHANNEL MEMS DPE MODULE

Polarization Maintaining Fiber

OPTICAL SPECIFICATIONS^{1,2}

Operating Wavelength		1260 to 1680 nm	
Insertion Loss ³	1% Tap Ratio	0.8 dB max.	
	2%	0.9 dB max.	
	5%	1.1 dB max.	
	10%	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	
PER ⁸		16 dB min.	
WDL	Superior Broad Band ⁹	< 10 dB Att. ¹⁰	0.5 dB max.
		< 20 dB Att. ¹¹	0.7 dB max.
Back Reflection		-50 dB max.	
Tuning Resolution		0.01 dB	
Durability ¹²		1 Billion Cycles min.	
Optical Power ¹²		500 mW max.	
Fiber Type		Panda PM	

- All specifications are measured separately at room temperature for each Test Wavelength
- DiCon recommends the use of external detectors or a dynamic power equalizer module for applications requiring absolute attenuation accuracy
- Measured with 3-jumper method or equivalent (See TIA/EIA 526-7)
- 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
- The averaging time for power measurements and the control loop interval for the built-in Variable Optical Attenuator (VOA)
- The frequency range where the system can suppress input power fluctuations by over 50%
- When input power > -30 dBm
- PER is defined with connectors; PER without connectors is 18 dB minimum
- Maximum variation within the wavelength range of Test Wavelength ±20 nm
- Adds 0.1 dB for dual-band operation
- Adds 0.3 dB for dual-band operation
- Met by design, not measured

ELECTRICAL SPECIFICATIONS

Latching Type	Non-latching
Control Type	RS232, I ² C, or USB
Supply Voltage	12 VDC
Power Consumption	9.5 W Max. Start Up 4.5 W Max. Operating
Connector Type	Samtec P/N: STMM-108-02-G-D
Mating Connector	Samtec P/N: TCSD-08-01-F-N

MECHANICAL DRAWING

Dimensions in mm

