ATTENUATORS

PRECISION VARIABLE ATTENUATOR

DiCon's Precision Variable Attenuator is a TTL-driven component which sets attenuation levels in the 0 to 30 dB range with superior repeatability and absolute accuracy. The attenuation level is set using a high-precision motor with either the I²C standard interface or a proprietary Step-Up/Step-Down interface.



FEATURES

- Superior repeatability and absolute accuracy
- Singlemode or multimode fiber type
- Up to two calibration wavelengths
- Direct motor control or absolute attenuation setting
- Compatible with 60 dB Variable Attenuator

HPPLICATIONS

Precision Variable Attenuators can be used to adjust the power level in automated test systems. Applications include bit error rate testing of transmitters and receivers as well as channel equalization in testing of WDM systems.



PRODUCT

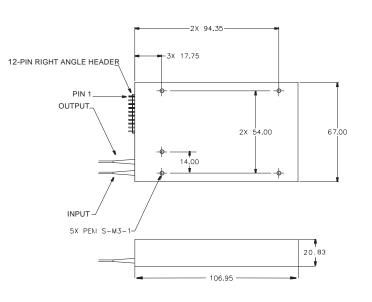
HTTENUATORS

SPECIFICATIONS1

Attenuation range ²	0-30 dB max.
Resolution	0.1 dB max.
Repeatability	±0.01 dB max.
Absolute accuracy ³	±0.1 dB max.
Insertion loss	0.8 dB typ., 1.3 dB max.
PDL ⁴	0.2 dB max.
Back-reflection ⁴	-50 dB max.
Flatness ⁵	±0.1 dB max.
Tuning speed	50 ms min., 1400 ms max.
Optical power	300 mW max.
Operating temperature	0°C to +50°C
Storage temperature	-20°C +70°C
Humidity	40°C/90%RH/5 days
Power requirements ⁶	+12 VDC, 250 mA max.
Fiber jacket	0.9 mm tight buffer

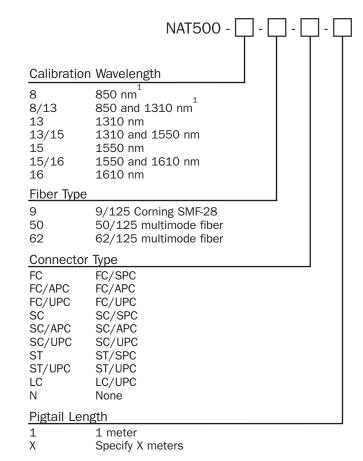
- 1. All specifications referenced without connectors.
- 2. For 60 dB attenuation range, see 60 dB Variable Attenuator datasheet.
- 3. At calibration wavelength.
- 4. Singlemode fiber only.
- 5. Within 100 nm window centered around calibration wavelength.
- 6. +5 VDC, 500 mA version available upon request.

HOUSING DIMENSIONS



Electrical connector is 12-pin right-angle header (Molex part number 22-12-2124). Mate with Molex part number 22-01-3127 or equivalent.

ORDERING INFORMATION



1. Multimode fiber only.

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