

GP700 Platform

Internal Components

Variable Attenuators

DiCon's GP700 variable attenuator module sets attenuation levels in the 0-to-60-dB range with 0.01-dB resolution. The GP700 front-panel display shows current attenuation settings. Up to 30 independent variable attenuators can be controlled simultaneously.

Features

- Precise resolution
- Low insertion loss
- Excellent repeatability
- Wide attenuation range
- Low back-reflection

Applications

Motorized variable attenuators automatically adjust optical power levels in optical testing systems. Applications include tuning power levels to measure bit-error rates in single-wavelength systems.

Specifications^{1,4}

Attenuation range ²	0-10 dB	11-30 dB	31-60 dB
Tuning resolution	0.01 dB	0.01 dB	0.01 dB
Repeatability	±0.05 dB	±0.1 dB	±0.1 dB
Absolute accuracy	±0.1 dB	±0.2 dB	±0.25 dB
PDL ³	0.08 dB	0.1 dB	0.3 dB
Insertion loss	0.6 dB typ., 1.5 dB max.		
Back-reflection	-50 dB max.		
Tuning speed	50 ms min., 1400 ms max.		
Damage threshold	24 dBm max.		

1. All specifications referenced without connectors.
2. Maximum attenuation for multimode components is 30 dB.
3. Singelmode only. Measured at 1550 nm.
4. Performance results may vary depending on multimode launch conditions.

Optical Performance

