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Data Sheet

August 1, 2026

DICON

DiCon GP700 Variable Attenuator Plug In Module PA-8-62-SC

DiCon GP700 Variable Attenuator Plug In Module PA-8-62-SC, Programmable optical attenuator with SC interfaces offering 0-60dB range. Delivers precise power control with high stability and fast switching for accurate optical power management in test systems and network installations.



MODEL

DiCon PA-8-62-SC

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PA-8-62-SC

LISTING

<https://aumictechlabs.com/products/pa-8-62-sc-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The DiCon GP700 Variable Attenuator Plug-In Module PA-8-62-SC delivers precise optical power control within the GP700 Programmable Fiberoptic Instrument or GP700M Modular Platform. This SC-connectorized module enables dynamic attenuation of optical signals across 62.5/125 μm multimode fiber, supporting complex optical test and network applications that demand repeatable, accurate signal conditioning. Technical Specifications Attenuation Performance Tuning resolution: 0.01 dB maximum Tuning speed: 50 ms minimum to 1400 ms maximum Excess loss: 0.8 dB (typical), 1.3 dB (maximum) Flatness: ± 0.1 dB maximum Polarization dependent loss (PDL): 0.2 dB maximum Back reflection: -20 dB maximum (50 μm /62.5 μm fiber) Repeatability: ± 0.1 dB maximum (50 μm /62.5 μm fiber) Absolute accuracy: ± 0.1 dB maximum (0-20 dB attenuation)

range) Optical Interfaces Connector type: SC Fiber compatibility: 62.5/125 μm multimode Electrical (GP700 Chassis) Input voltage: 100 VAC to 240 VAC Maximum power consumption: 150 W Fuse: 2 A (typical) AC input leakage current: 3.5 mA maximumKey Features 0.01 dB tuning resolution for fine-grained power adjustment Low excess loss (0.8 dB typical) minimizes insertion effects Fast settling: 50 ms minimum response time Excellent flatness and PDL performance across the operating range ± 0.1 dB repeatability ensures consistent measurements Drop-in compatibility with existing GP700 system infrastructureTypical Applications Optical component characterization and power level verification Fiber optic network testing and commissioning Signal conditioning in automated test setups Dynamic optical path loss simulation Repeatable attenuation calibration and validationCompatibility & Integration Installs directly into any GP700 or GP700M chassis. Control via manual adjustment, IEEE 488.2 (GPIB), or RS-232 interfaces enables integration into standalone or networked test environments.

Features & description

From manufacturer datasheet

Features

- GP700 / GP700M plug-in motorized VOA • Fiber: 62.5/125 um multimode • Connectors: SC • Max attenuation: 30 dB (MM) • IL: about 0.6 dB typ / 1.5 dB max • RL: -50 dB max • Resolution about 0.10-0.12 dB (0-30 dB) • Speed typically 50-1400 ms • Calibration wavelength often 850 nm for MM

PA862SC Key Specifications

PARAMETER	VALUE
Fiber	62.5/125 um multimode
Connectors	SC
Max attenuation	30 dB (MM)
IL	about 0.6 dB typ / 1.5 dB max
RL	-50 dB max

PA862SC Characteristics / Specifications

PARAMETER	VALUE
Model	PA-8-62-SC
Manufacturer	DiCon Fiberoptics
Mainframe	GP700 / GP700M
Instrument Type	Motorized variable optical attenuator plug-in
Fiber	62.5/125 um multimode
Connector	SC
Maximum Attenuation	30 dB (multimode)
Insertion Loss	0.6 dB typical; 1.5 dB maximum
Return Loss	-50 dB maximum
Resolution	approximately 0.10 to 0.12 dB over 0-30 dB
Settling / Speed	approximately 50 to 1400 ms (step dependent)
Typical Calibration Wavelength (MM)	850 nm Standard Operating Conditions Install only incompatible GP700/GP700M slot. Clean SC connectors before mating. Do not exceed labeled maximum attenuation or optical power ratings. Confirm mainframe firmware supports the PA-8 module family.
Connectors	SC
Max attenuation	30 dB (MM)
Attenuation	for multimode modules is typically 30 dB. Insertion loss is about 0.6 dB typical / 1.5 dB maximum; return loss is -50 dB maximum. Attenuation resolution is on the order of 0.10 to 0.12 dB across 0-30 dB bands, with settling times typically 50 to 1400
Fiber type	is 62.5/125 um multimode with SC connectors. Maximum attenuation for multimode modules is typically 30 dB. Insertion loss is about 0.6 dB typical / 1.5 dB maximum; return loss is -50 dB maximum. Attenuation resolution is on the order of 0.10 to 0.12

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	PA-8-62-SC
Manufacturer	DiCon Fiberoptics
Mainframe	GP700 / GP700M
Instrument Type	Motorized variable optical attenuator plug-in
Fiber	62.5/125 um multimode
Connector	SC
Maximum Attenuation	30 dB (multimode)
Insertion Loss	0.6 dB typical; 1.5 dB maximum
Return Loss	-50 dB maximum
Resolution	approximately 0.10 to 0.12 dB over 0-30 dB
Settling / Speed	approximately 50 to 1400 ms (step dependent)
Typical Calibration Wavelength (MM)	850 nm

Standard Operating Conditions

Install only incompatible GP700/GP700M slot. Clean SC connectors before mating. Do not exceed labeled maximum attenuation or optical power ratings. Confirm mainframe firmware supports the PA-8 module family.

Operational Notes

PA-8-62-SC isaplug-in - it requires the GP700/GP700M chassis. The "62" in the part number denotes 62.5 um multimode fiber; SC denotes SC connectors. Do not assume single-mode attenuation range or calibration wavelength.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.