



Ridgemount Technologies have designed a range of Fibre Optic Fixed Optical Attenuators for singlemode applications. Attenuation is created by a fibre stub containing metal doped fibre that absorbs light uniformly over the wavelength spectrum.

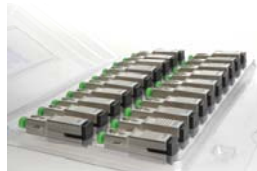
These 'plug' or 'build out' attenuators connect directly onto the end of the patch cable to induce the defined attenuation. They feature excellent precision and stability over a wide wavelength range. A series of common attenuating values are available allowing customers to re-configure networks with ease.

The Ridgemount FOAs are optimised and tested for dual window operation and are available in FC, SC and LC interface format with custom interfaces also available. Both PC and APC products have guaranteed end face symmetry ensuring other parameters of the network performance are not compromised.

Parameter	Performance	Specifications
Fixed Attenuator Interfaces	SC / FC / ST / LC UPC / APC	IEC 61754 Interface Standards FC & SC Metal Bodies; LC Plastic Body.
<b>Optical Performance</b>		
Attenuation	1dB – 9dB ± 0.5dB 10dB – 15dB ± 1.0dB 16dB – 20dB ± 1.5dB 21dB – 30dB ± 2.0dB	IEC 61300-3-4 (1270nm to 1620nm). Production tested 100% at 1310nm and 1550nm (unless specified).
Return Loss (Back Reflection)	UPC > 50dB APC > 60dB	IEC 61300-3-6
<b>Mechanical Performance</b>		
Vibration Test	±0.2dB	IEC 61300-2-1 (10Hz to 55Hz)
Mating Durability	±0.2dB	IEC 61300-2-2 (500x) Connector dependant.
Drop Test	±0.2dB	IEC 61300-2-12 (3 drops at 1.5m)
<b>Environmental Performance</b>		
Storage Temperature	-50°C to +80°C	IEC 61300-2-22
Operational Temperature	-40°C to +75°C	IEC 61300-2-22
<b>Material</b>		
Attenuator Shell / Body	Metal / Plastic	Other options available.
Optical Ferrules	Zirconia Ceramic	Precision Ferrule.
Fire Rating	UL 94 – Vo	All materials RoHS Compliant.
Packaging	Individual Vacuum Pack	
Labeling	Unique Serial Number on body	

**Applications**

- Telecom
- DWDM
- CATV
- Test & Measure



**Part Codes**

- 600 1003 xx - Attenuator Plug WBDW FCUPC xxdB
- 600 1106 xx - Attenuator Plug WBDW FCAPC xxdB
- 600 2003 xx - Attenuator Plug WBDW SCUPC xxdB
- 600 2106 xx - Attenuator Plug WBDW SCAPC xxdB
- 600 5003 xx - Attenuator Plug WBDW LCUPC xxdB
- 600 5006 xx - Attenuator Plug WBDW LCAPC xxdB

**Technical Data Sheet**

**Part No.** 600 Series      **DRAWN:** CRP      **ISSUE:** A      **CHECKED:** ML      **DATE:** 01/02/08

**Description:** Fibre Optic Attenuator Plug      **Dimensions in millimetres unless otherwise stated. Do not scale.**

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optimising optical fibre performance