



# 77 & 79 Series Singlemode or Multimode Plug Style Attenuators



*MaJoR Fiber Optics  
Singlemode and Multimode  
Plug Style Attenuators  
provide high optical  
performance that is critical to  
today's networking systems.  
The product will perform  
over a wide bandpass for  
existing Multimode, S and C  
bands and even into the  
future L band*

### Applications

- LAN, WAN & Metro Networks
- Telecommunication Networks
- Passive Optical Networks
- Test & Measurement Systems

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- Fixed Attenuation values of 1 through 25dB and 30dB
- Singlemode operates over a wide Bandpass of 1260~1660nm (Dual Window)
- Multimode is Dual Window 850/1300nm
- Optical performance 100% factory tested
- UPC, and APC available for Singlemode
- Singlemode—Polarization insensitive, doped fiber
- Multimode utilizes offset fusion splice
- Meets Telcordia GR-CORE 326 and 910
- SC - FC - ST - LC - MU

### Attenuation Values (Singlemode)

Attenuation  $\pm$  0.50dB for 1dB through 10dB  
Attenuation  $\pm$  0.75dB for 10dB through 15dB  
Attenuation  $\pm$  10% for 16-30dB

### Uniformity (Singlemode)

$\leq$  0.50dB attenuation difference from  
1310nm to 1550nm

### Attenuation Values (Multimode)

Attenuation  $\pm$  0.50dB for 1-5dB  
Attenuation  $\pm$  0.75dB for 6-10dB  
Attenuation  $\pm$  10% for 11-20dB

### Return Loss (Singlemode)

UPC >55 db \*For ST >50dB  
APC >68 dB

### Durability

500 matings <0.2 dB x Attenuation

### Temperature Cycling

-40~+80°C (42 cycles)  
<0.2 dB x Attenuation

### Humidity Cycling

75°C, 95%/336Hr  
<0.2 dB x Attenuation

### Vibration

10~55Hz (2Hr) <0.2 dB x Attenuation

### Impact

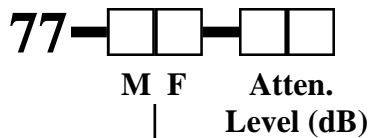
1.5m drop, 8 cycles  
<0.02 dB x Attenuation



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## PART NUMBER ORDERING INFORMATION

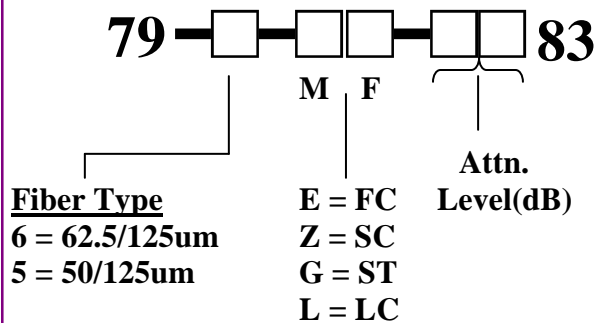
### Singlemode



**Example:**  
An FC Male to FC Female, 5dB = 77-PP-05

- P = FC/UPC
- T = SC/UPC
- R = ST/UPC
- L = LC/UPC
- M = MU/UPC
- U = FC/APC
- Q = SC/APC

### Multimode



**Example:**  
An FC Male to FC Female, 5dB utilizing  
62.5/125um fiber at = 79-6-EE-0583