

## 1653.7nm Raman Fiber Amplifier



- **Product Description**

1653.7nm Raman fiber amplifier is a high saturation output power Raman fiber amplifier; it is used to amplify the 1653.7nm transmitter signal, increase the transmitter optical power, and increase the signal transmission distance. This series of amplifiers uses high-efficiency Raman gain fiber and optimized Raman pump light source to achieve high saturation power amplification output. Based on a stable and efficient internal control system, combined with high-precision ATC and ACC control circuits, the amplifier can operate stably and reliably. All product status parameters and

configuration information can be remotely monitored and configured by the host computer. This series of fiber amplifiers has a variety of packaging forms to meet different application requirements.

- **Product features**

High saturation output power (100mW)、 High stability and reliability、  
Excellent heat dissipation structure、 Remote control

- **Part Number**

MP-RFA-1653.7-100-SM-M

- **Application area**

Fiber optic communication、 Fiber optic sensing、 LiDAR

- **Core parameters**

Wavelength	Output Power	Max.Power
1650nm	100mW	≤500mW

## ● General Parameters

### Parameter

Parameter	Unit	Min.	Typical	Max.
Operating wavelength	nm	1645	1650	1655
Input optical power	dBm	0		
Saturated output power	mW			100
Output power adjustment range	%	0		100
Noise figure @ 0dBm Input	dB			5.5
Polarization-dependent gain	dB			0.5
Polarization mode dispersion	ps			0.5
Input/output isolation	dB	40		
Operating temperature range	°C	-5		55
Storage temperature range	°C	-40		85
Pigtail type	SMF-28e SM fiber			
Supply voltage	VDC	24		
Product size	mm	220x164x40		
Communication protocol	RS232			
Operating mode	ACC			

## Ordering Information

	Output power(dBm)	Pigtail type	Pigtail length	Connector type	Dimension
RFA-1653.7	20dBm(100mW)	0.9mm	1m	FC/APC	220X164X40
		2mm	2m	FC/PC	Benchtop