



## F520 C-Band DWDM Multi-Channel DRA ( Distributed Raman Amplifier ) Forward 4dB Gain, 700mW Total Output Power

**Part Number:** F520-DRA-FW04



### Overview

The F520-DRA-FW series of Distributed Raman Amplifier uses the stimulated Raman scattering effect on SMF to amplify optical signals. It offers a forward flat gain distributed on certain SMF distance to improve optical signal power, OSNR and transmission distance. It is an efficient and convenient solution for high speed, large capacity and long-haul transmission system.

### Applications

- Ultra Long-Haul transmission system
- Submarine optical transmission system

### Features

- Support the C-Band wavelength range of 1528~1561nm
- Typical Gain 4dB
- Excellent Gain Flatness
- ACC or APC operation mode
- Low Noise Figure Typical 0dB



## Specification

Parameters	Min	Typ	Max	Unit	Note
Operating Wavelength	1528		1561	nm	
Working Channel Type	Multi-Channel				
ON-OFF Gain	1.5	4	10	dB	1, 2
Gain Flatness			2	dB	
Input Power Range	0		+14	dBm	
Out Power Range	4		+18	dBm	
Total Output Power	700			mW	3
Pump Center Wavelength	1425 / 1455			nm	
Noise Figure			0	dB	1, 2
Polarization dependent Gain			0.5	dB	
Polarization mode Dispersion			0.5	ps	
Return Loss			-45	dB	
Output Channel Isolation	40			dB	
Power Consumption	≤40			W	
Size	191(W) x 253(D) x 41(H)			mm	
Operating Temperature	-10~60			°C	
Storage Temperature	-40~80			°C	
Relative Humidity	5~95			RH%	

**Note1:** Measured at Input Power=+14dBm, @1550nm.

**Note2:** Measured with 40km of G.652D fiber with Attenuation 0.2dB/km, counter-propagating configuration.

**Note3:** Measured at 500mW setting per Pump.

## Ordering Information

Part No.	Description
F520-DRA-FW04	Distributed Raman Amplifier, Forward 4dB Gain, 700mW Output Power.