

EDF Coil



(A) With Al Reel



(B) Without Al Reel

Features

- ✧ High Efficiency
- ✧ Low Noise Figure
- ✧ Good Gain Flatness
- ✧ High Reliability
- ✧ Low PMD
- ✧ Low-loss Splicing with Lead Fiber

Application

- ✧ 980nm-, 1480nm- Pumped EDFA
- ✧ Post, Pre, Line Amplifier
- ✧ C-band, L-band EDFA
- ✧ WDM, single-channel EDFA

Fujikura's EDF Coil is supplied with a guarantee of amplification characteristics based on customers' requirements. Carefully optimized EDF length and a low splicing loss with lead fibers utilizing mode-field conversion technique enable high optical performance. Various lead fibers and a choice of with or without Al reel are available.

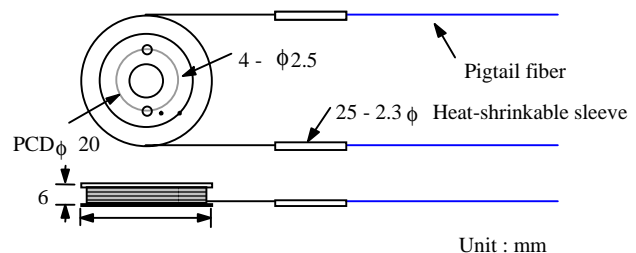
Parameters	Unit	Performance		
		Example 1	Example 2	
Signal Wavelength	nm	1540 – 1570	1550	
Number of Measurement Wavelength	-	8 (equally spaced)	1	
Pumping Wavelength	nm	980 +/- 2	1480 +/- 5	
Pumping Configuration (*1)	-	Forward	Forward	
Signal Input Power	dBm	4.0 +/- 0.1	-10.0 +/- 0.1	
Gain	dB	15.0 +/- 0.1	24.0 +/- 0.1	
Gain Flatness	dB	< 4.0 (without any GFF)	-	
Noise Figure	dB	< 4.5	< 5.5	
Pump power	mW	< 190	< 100	
Proof Test	%	2%, 1sec (Fiber) 200g, 1sec (Spliced Portion)		
Operating Temperature	°C	-20 – 65		
Lead Fiber	Type (*2)	-	Fujikura 0.98-1.55SMF(*3)	Fujikura DSF
	Coating	-	φ0.25 Dual acrylate	φ0.9 Ny
	Length	m	> 1.5	> 1.5

(*1) Backward pumping and bi-directional pumping are also available.

(*2) Fujikura SM is also available for a 1480nm pumped EDF Coil.

(*3) Guides both 980nm pump light and 1550nm signal light with low bending loss.

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(B) Without Al Reel

