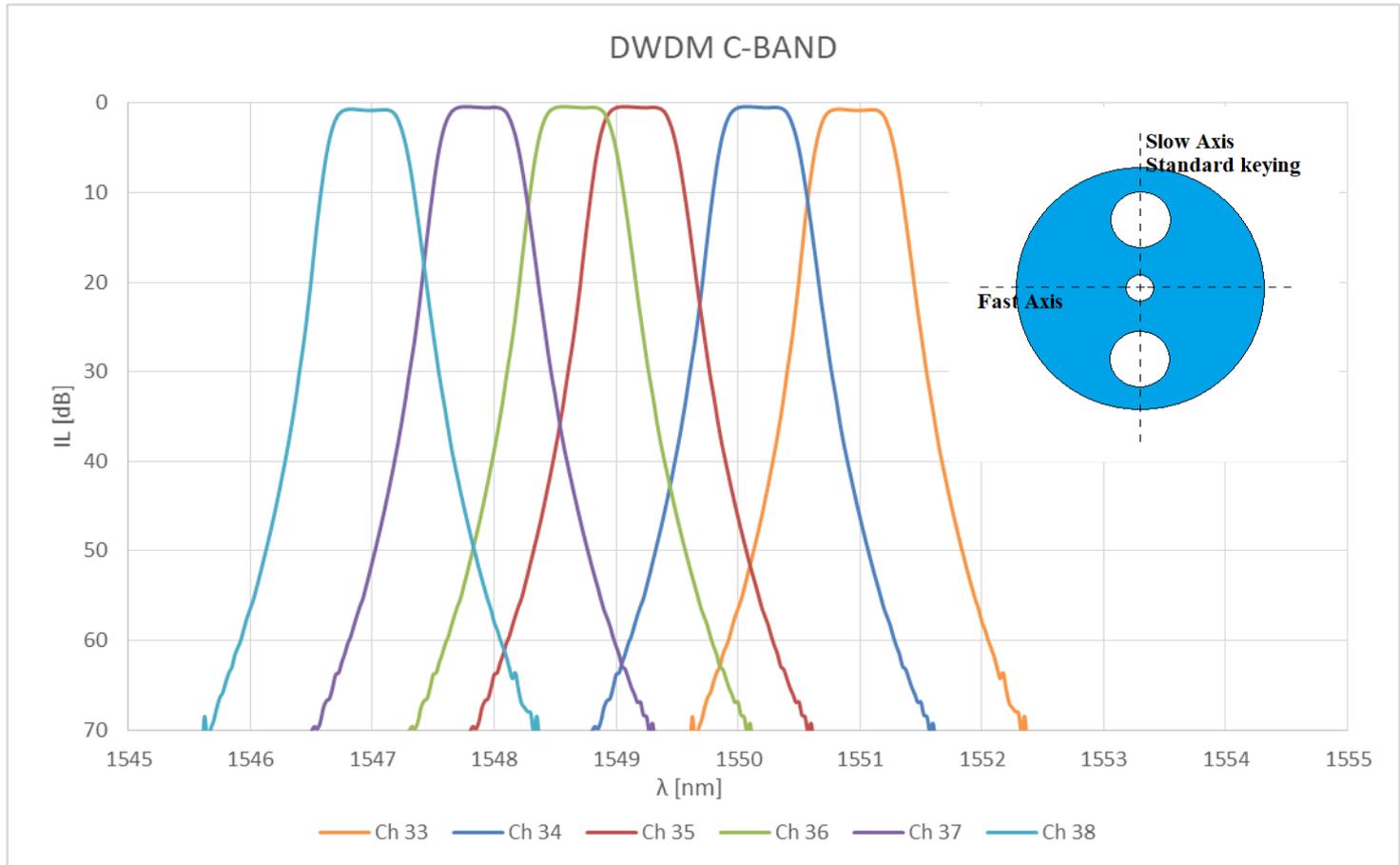


Photonics

PM Filters DWDM

Fibrain Polarization Maintaining (PM) Narrowband Filters made in Thin Film Filter (TFF) technology, can be used in DWDM transmission in the C- band. The filter is made with PANDA fiber, available with on both ends with high-quality ferrule, typically FC/APC or FC/UPC connector terminations. PM Filters DWDM are characterized with high extinction ratio polarization PER, high channel isolation, low insertion loss and excellent environmental stability and reliability. Standard keying according to the slow axis, can be changed at the Customer's requirement. They can be applied for example in quantum transmission, channel Add/Drop, fiber sensors.



APPLICATIONS

ADVANTAGES AND FEATURES

- ✓ Quantum transmission
- ✓ DWDM transmission
- ✓ Channel ADD/DROP
- ✓ CATV Fiber Optic System
- ✓ Fiber Sensor
- ✓ Measurements devices

- ✓ High Extinction Ratio
- ✓ Narrow passband
- ✓ Tunable central wavelength
- ✓ High channel isolation
- ✓ High stability and reliability
- ✓ Low insertion loss

Photonics

TECHNICAL SPECIFICATIONS:

Parameter	Unit	Value
Channel spacing ¹	GHz	100
Available DWDM Channels (λ_c)		C-Band
Passband	nm	$\lambda_c \pm 0.11$
Fiber Type		PM 1550
Insertion Loss Passband ²	dB	$\leq 0.8^*$
Ripple in Passband	dB	≤ 0.3
Directivity	dB	≥ 50
Min Extinction Ratio ² @ 23°C	dB	20
Max Optical Power	mW	300
Operating Temperature	°C	0 to +70

¹ available channel spacing 50 and 200 GHz

² without connector terminations

PM filters in other standards available upon individual Customer order.

ORDERING INFORMATION:

Serial	Quality	Fiber Type	ITU Grid [GHz]	Channel	Length	Cable Type [um]	Casing [mm]	Connector Type	Connector Type
PMDW	G0	1 – PM 1550	A05- 50	21	010- 1 m	1- 250	1 – 38x5 pipe	xx- without	xx- without
	G1		A10- 100	...	015- 1.5m	2 - 900	2 – 90x20x10	FCS- slow axis	FCS- slow axis
			A20- 200	65	x- other	3 - 2000	3 – 100x80x10	FCF- fast axis	FCF- fast axis
								FCAS- slow axis	FCAS- slow axis
								FCAF- fast axis	FCAF- fast axis

Example: **PMDW-G0-1-A10-21-010-1-1-FCAS-FCAS**– Fibrain Polarization Maintaining DWDM filter made with PANDA 1550 fiber with channel spacing 100GHz, 21 channel, fiber output length 1m in tube 250um in casing pipe, connector type (input) FCA according to slow axis, connector type (output) FCA according to slow axis.

Important notice

Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Term of Sale of the selling Fibrain subsidiary.

