

TFC – C-BAND NARROW TUNABLE FILTER

The TFC is a narrowband optical filter offering wavelength tunability over the entire C-band with an excellent channel isolation.



Based on TeraXion's FBG filter expertise and combined to our reliable wavelength tuning platform, this optical filter module offers a narrow and sharp transmission window which provides an outstanding channel isolation. Narrow band-pass full C-band filtering is required for applications such as signal tracking, sub-band filtering or noise suppression.

Features

- Bandwidth down to 5 GHz
- Channel isolation > 40 dB
- Covers full C-band
- USB interface

Applications

- Signal tracking
- Sub-band filtering for OFDM
- Noise suppression
- Flexible T&M

Specifications

Optical Parameters*

	Min.	Typ.	Max.	Units
Wavelength Range	1530		1568	nm
Tuning Accuracy	-1		+1	GHz
Filter BW at 3 dB	5	8	12	GHz
Isolation at f > 25 Ghz	40	55		dB
Insertion loss		7	10	dB
Tuning Resolution		1		GHz
Tuning Speed		10		s

(*): Specifications can be customized

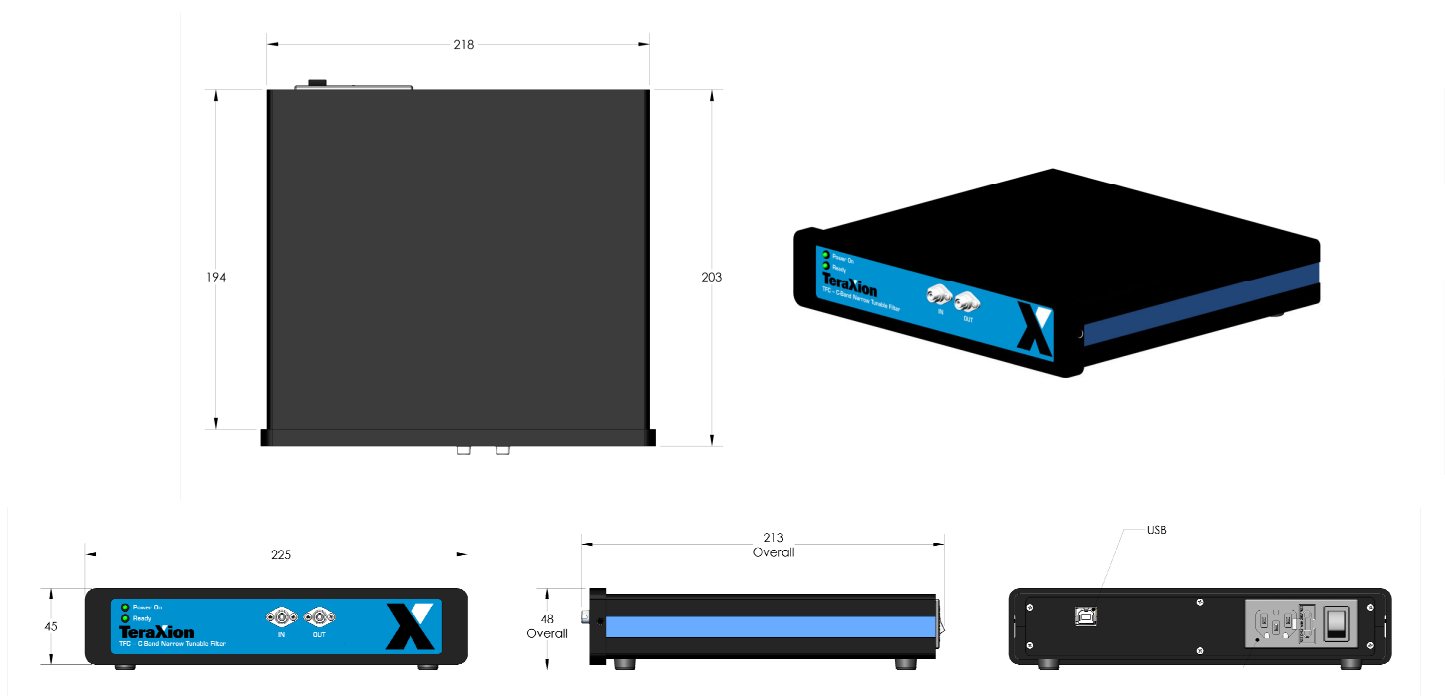
Interface

Optical Fiber	SMF, FC/PC connectors
Control Interface	LabVIEW via USB port
Input Voltage	100-240 VAC

Mechanical Parameters

Dimensions	225 x 203 x 45 mm
Operating Temperature	15 to 45°C
Storage Temperature	-40 to +85°C

Dimensions



Ordering information

For orders, questions, specific requirements or to learn more about TeraXion's products, contact us at

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