

PROGRAMMABLE ACTIVE CRYSTAL FILTER*

136 - 512 MHz

ACFX Series

Product Features

- Crystal filter based filtering system, 12.5KHz and 25KHz BW
- Software programmable tuning, 3.125 KHz steps
- Sharp filtering response
- Front end LNA included for low noise figure
- User adjustable gain
- Transmitter Bypass (TXBP) available for transceivers applications
- N(f) to SMA(m) jumpers included, 1 ft, 2 pcs

Applications

- P25, DMR, NXDN, TETRA, Conventional and others
- Repeaters sites, mobile and base station
- High RF congested environments
- Mobile applications like trains and cars / trucks



Specification

Value

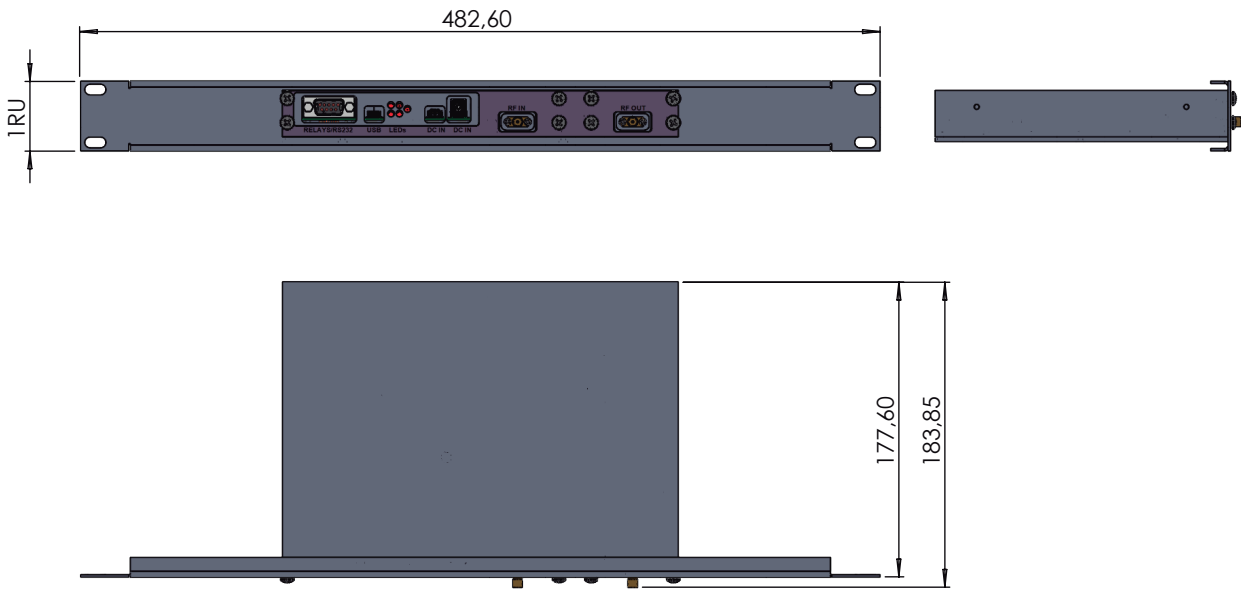
Specification	Value	
Type	Programmable Crystal Filter*	
Frequency Range & Bandwidth	ACF11-12.5	136 – 150MHz range & 12.5KHz BW
	ACF11-25	136 – 150MHz range & 25KHz BW
	ACF12-12.5	150 – 174MHz range & 12.5KHz BW
	ACF12-25	150 – 174MHz range & 25KHz BW
	ACF41-50	380 – 430MHz range & 50KHz BW
	ACF42-12.5	450 – 470MHz range & 12.5KHz BW
	ACF42-25	450 – 470MHz range & 25KHz BW
	ACF43-12.5	465 – 485MHz range & 12.5KHz BW
	ACF43-25	465 – 485MHz range & 25KHz BW
ACF44-12.5	485 – 512MHz range & 12.5KHz BW	
ACF44-25	485 – 512MHz range & 25KHz BW	
Programmable steps	3.125 KHz	
Rejection	30 dBc min @ adjacent channel (+/-12.5 KHz)	
	60 dBc min @semi - adjacent channel (+/-25 KHz)	
Overall gain	10 dB	
Adjustable gain	15 dB @ input attenuator, 15 dB @ output attenuator	
Maximum output power	-10 dBm	
Maximum input power, no damage	0 dBm	
Overload protection	Yes, self recovery	
VSWR, max	1.5:1 max	
Noise figure	4 dB	
Alarms	Yes, LNA failure, Main Power Supply failure, Backup Power	
	Supply failure, Overload, Excessive Input Power	
Alarms output	LEDs and Dry Contacts	
RF Connectors	SMA (f)	
Programming	Via USB	
Power, DC	12 to 48 VDC 5 W	
DC ports	Two DC input ports, main & backup	
Dimension	1 RU	
Weight	3 lbs • 1.5 kg	

DOC TW059.00 • 14082018 • FS
 *The Programmable Active Crystal Filter is US Patent Protected by Fiplex Communications, Inc.
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Specification	Value
Weight	3lb - 1.5 kg
Temperature range	14° to 122° F • -10° to +50° C



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