

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

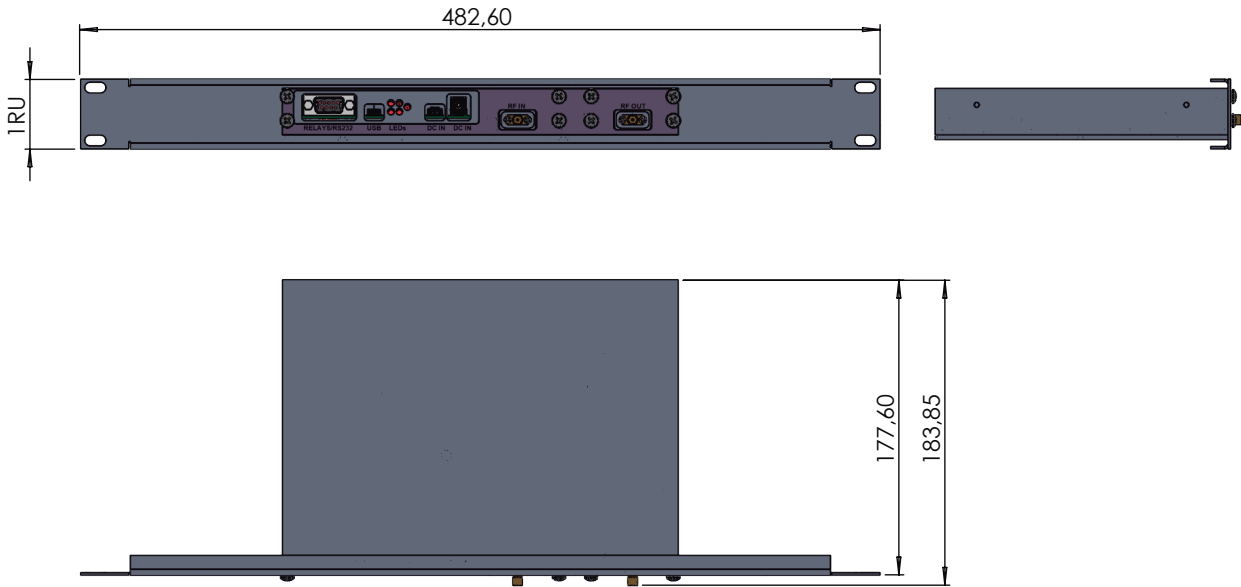
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Type	Programmable Crystal Filter*																						
Frequency Range & Bandwidth	<table border="0"> <tr> <td>ACF11-12.5</td> <td>136 – 150MHz range & 12.5KHz BW</td> </tr> <tr> <td>ACF11-25</td> <td>136 – 150MHz range & 25KHz BW</td> </tr> <tr> <td>ACF12-12.5</td> <td>150 – 174MHz range & 12.5KHz BW</td> </tr> <tr> <td>ACF12-25</td> <td>150 – 174MHz range & 25KHz BW</td> </tr> <tr> <td>ACF41-50</td> <td>380 – 430MHz range & 50KHz BW</td> </tr> <tr> <td>ACF42-12.5</td> <td>450 – 470MHz range & 12.5KHz BW</td> </tr> <tr> <td>ACF42-25</td> <td>450 – 470MHz range & 25KHz BW</td> </tr> <tr> <td>ACF43-12.5</td> <td>465 – 485MHz range & 12.5KHz BW</td> </tr> <tr> <td>ACF43-25</td> <td>465 – 485MHz range & 25KHz BW</td> </tr> <tr> <td>ACF44-12.5</td> <td>485 – 512MHz range & 12.5KHz BW</td> </tr> <tr> <td>ACF44-25</td> <td>485 – 512MHz range & 25KHz BW</td> </tr> </table>	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
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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																						

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 *The Programmable Active Crystal Filter is US Patent Protected by Fiplex Communications, Inc.
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ACFX Series

Specification	Value
Weight	3lb - 1.5 kg
Temperature range	14° to 122° F • -10° to +50° C



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