

AERONAUTICAL BAND PROGRAMMABLE ACTIVE CRYSTAL FILTER*

118 - 137 MHz

ACFA1-25

Product Features

- Crystal filter based filtering system, 25 KHz BW
- Software programmable tuning, 1.25 KHz steps
- Sharp filtering response
- Front end LNA included for low noise figure
- User adjustable gain
- High linearity
- Transmitter Bypass (TXBP) Module as optional
- N(f) to SMA(m) jumpers included, 1 ft, 2 pcs



Programmable Active Crystal Filter
(US Patent Protected)

Applications

- Air-to-Ground and Ground Communications Systems
- Repeaters sites, mobile and base station
- Highly congested RF environments
- Mobile Applications including Vehicles



Specification

Value

Specification	Value
Type	Programmable Crystal Filter*
Frequency band	118 – 137 MHz range
Bandwidth	25 KHz
Programmable steps	1.25 KHz
Rejection	30 dBc min @ adjacent channel (+/-25 KHz) 60 dBc min @ semi-adjacent channel (+/-50 KHz)
Spurious	< -90 dBm
Overall gain, max	10 dB
Adjustable gain range	15 dB Input ATT, 15 dB Output ATT
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 at max gain
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
I/O ports, communications	Via RS232 (optional)
Power, DC	12 to 48 VDC 5W
DC ports	Two DC input ports, main & backup
Dimension	8 x 6 x 1 inches • 203 x 152 x 25 mm
Weight	2.2 lbs • 1.0 kg
Environmental	IP21, indoor applications
Temperature range	14° to 122° F • -10° to +50° C

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