

UHF ACTIVE CRYSTAL RECEIVER MULTICOUPLER 380 - 510 MHz

ACRC Series

Product Features

- Channel Selective operation
- For 12.5, 25 and 50 KHz channel BW
- Software adjustable channel filter center frequency
- User manual gain adjustment
- Dual Power Supply for redundancy
- High adjacent channel rejection
- Compact size, 19in rack mounting
- Very low IM generation
- Standard models for 4 and 8 channels, other number of channels available upon request



Active Crystal Receiver Multicoupler

Applications

- For UHF multicarrier systems
- Compatible with narrowband FM, P25 (Ph1 & 2), TETRA, DMR, IDAS, Nexedge, among others



Specification	ACRC38-4-x	ACRC38-8-x	ACRC45-4-x	ACRC45-8-x
Frequency band	380 - 430 MHz	380 - 430 MHz	450-480/480-510 MHz	450-480/480-510 MHz
Number of channels	4	8	4	8
Overall system gain	10	7	10	7
Return loss min, all ports		18dB		
Overall system noise figure		3dB		
Channel filters BW (replace "x")	50KHz	50KHz	12.5KHz, 25KHz	12.5KHz, 25KHz
Channel filter programmable steps		1.25KHz		
Rejection	12.5KHz BW: 30dBc min @ adjacent channel (+/-12.5KHz) 60dBc min @ semi-adjacent channel (+/-25KHz) 25KHz BW: 30dBc min @ adjacent channel (+/-25KHz) 60dBc min @ semi-adjacent channel (+/-50KHz)			
Manual gain variation		Yes, 20dB range		
Maximum input power		-10dBm		
Overload protection		Yes, self recovery		
OPI3		>+25dBm		
Rx to Rx isolation		>50dB		
Alarms	LNA failure, main power supply failure, backup power supply failure, overload, excessive input power			
Alarms output		Dry Contacts		
Connector, input		N(f)		
Connector, outputs		N(f)		
AC power input		3-pin IEC320		
Grounding		Chassis grounded		
Temperature range		14° to 131° F • -10° to +55° C		
Environmental		IP21		
Mounting		Brackets for 19in rack		
Rack units requirement	2 RU	4 RU	2RU	4RU
Dimensions	3.4 x 19 x 15.8 inches 88 x 482 x 400 mm	6.9 x 19 x 15.8 inches 176 x 482 x 400 mm	3.4 x 19 x 15.8 inches 88 x 482 x 400 mm	6.9 x 19 x 15.8 inches 176 x 482 x 400 mm
Weight	13 lbs • 6 kg	24 lbs • 10 kg	13 lbs • 6 kg	24 lbs • 10 kg

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