

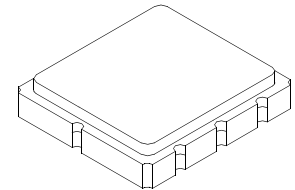


AEC-Q200

This component was always RoHS compliant from the first date of manufacture.

RF1432C

**319.500 MHz
SAW Filter**



**SM5050-8 Case
5 x 5**

- **Ideal Front-End Filter for European Wireless Receivers**
- **Low-Loss, Coupled-Resonator Quartz Design**
- **Simple External Impedance Matching**
- **Complies with Directive 2002/95/EC (RoHS)**
- **Tape and Reel Standard per ANSI/EIA-481**



The RF1432C is a low-loss, compact and economical surface-acoustic-wave (SAW) filter designed to provide front-end selectivity in 319.500 MHz receivers. Receiver designs using this filter include superhet with 10.7 MHz or 500 kHz IF, direct conversion and superregen.

This coupled-resonator filter (CRF) uses selective null placement to provide suppression, typically greater than 40 dB, of the LO and image spurious responses of superhet receivers with 10.7 MHz IF. RFMi's advanced SAW design and fabrication technology is utilized to achieve high performance and very low loss with simple external impedance matching (not included). Quartz construction provides excellent frequency stability over a wide temperature range.

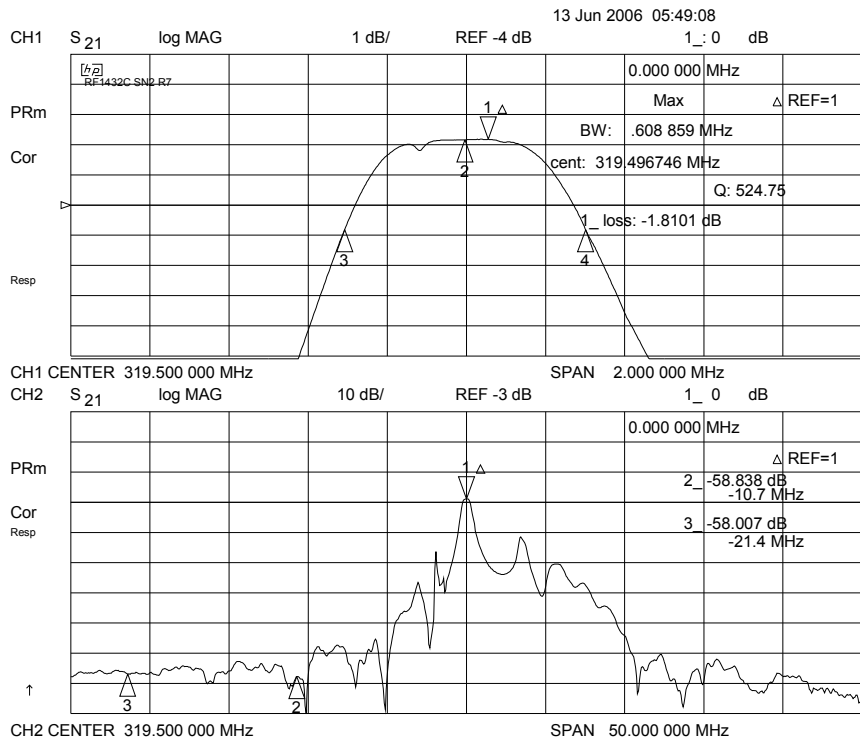
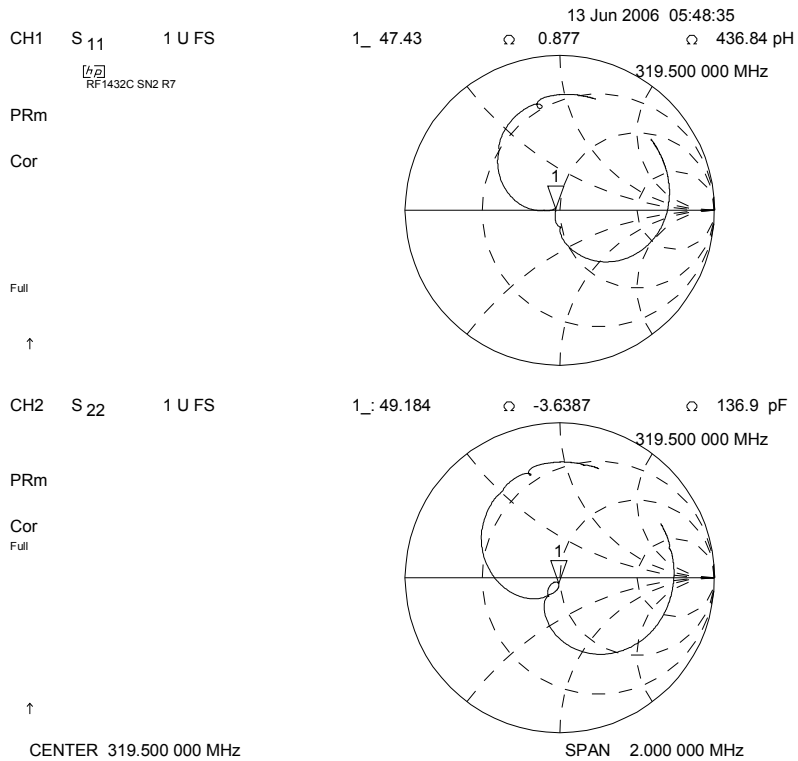
Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
Center Frequency at 25°C Absolute Frequency Tolerance from 319.500 MHz	f_C		319.420		319.580	MHz
	Δf_C				± 80	kHz
Insertion Loss	IL			1.8	2.8	dB
3 dB Bandwidth	BW_3		500	600	800	kHz
Rejection at $f_C - 21.4$ MHz (Image) at $f_C - 10.7$ MHz (LO) Ultimate			40	50		dB
			40	50		
				80		
Temperature Operating Case Temperature Turnover Temperature Turnover Frequency Frequency Temperature Coefficient	T_C		-40		+85	°C
	T_O		25	40	55	°C
	f_O			f_C		MHz
	FTC			0.032		ppm/°C ²
Frequency Aging	Absolute Value during the First Year	fA		≤10		ppm/yr
Impedance @ FC INPUT $Z_{IN} = R_{IN} // C_{IN}$ OUTPUT $Z_{OUT} = R_{OUT} // C_{OUT}$	Z_{IN}		3.97kΩ // 4.37pF			
	Z_{OUT}		2.56kΩ // 4.27pF			
Lid Symbolization (in addition to Lot and/or Date Codes)			621, YWWS			



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

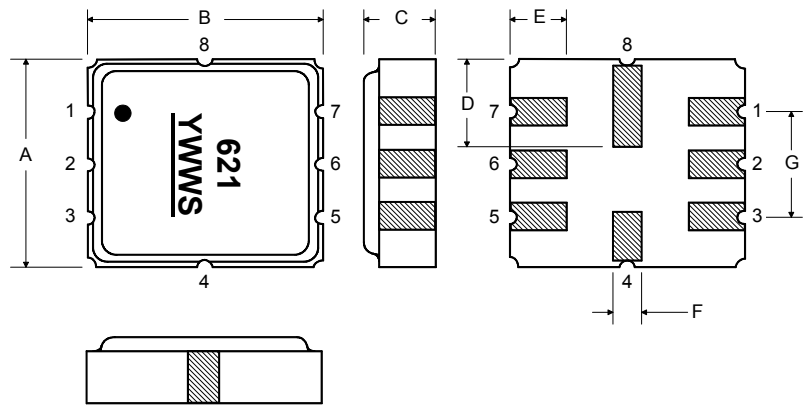
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.



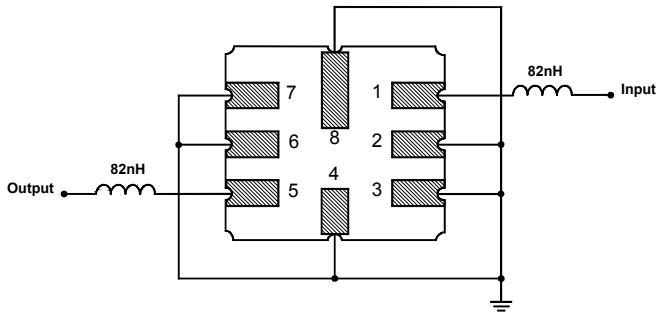
Rating	Value	Units
Input Power Level	10	dBm
DC Voltage	12	VDC
Storage Temperature ⁵	-40 to +85	°C
Soldering Temperature	(10 seconds / 5 cycles max.)	°C

Electrical Connections

Pin	Connection
1	Input
2	Input Ground
3	Ground
4	Case Ground
5	Output
6	Output Ground
7	Ground
8	Case Ground



Matching Circuit to 50Ω



Case Dimensions

Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	4.8	5.0	5.2	0.189	0.197	0.205
B	4.8	5.0	5.2	0.189	0.197	0.205
C	1.30	1.50	1.7	0.050	0.060	0.067
D	1.98	2.08	2.18	0.078	0.082	0.086
E	1.07	1.17	1.27	0.042	0.046	0.05
F	0.50	0.64	0.70	0.020	0.025	0.028
G	2.39	2.54	2.69	0.094	0.100	0.106

Optional Electrical Connections

Pin	Connection
1	Input Ground
2	Input
3	Ground
4	Case Ground
5	Output Ground
6	Output
7	Ground
8	Case Ground

Matching Circuit to 50Ω

