



# THE DATASHEET OF RF1432C



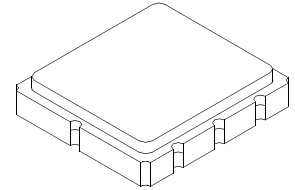
- **Ideal Front-End Filter for European Wireless Receivers**
- **Low-Loss, Coupled-Resonator Quartz Design**
- **Simple External Impedance Matching**
- **Complies with Directive 2002/95/EC (RoHS)**
- **Tape and Reel Standard per ANSI/EIA-481**
- **Moisture Sensitivity Level: 1**

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.

# RF1432C

## 319.500 MHz SAW Filter



**SM5050-8 Case**  
**5 x 5**

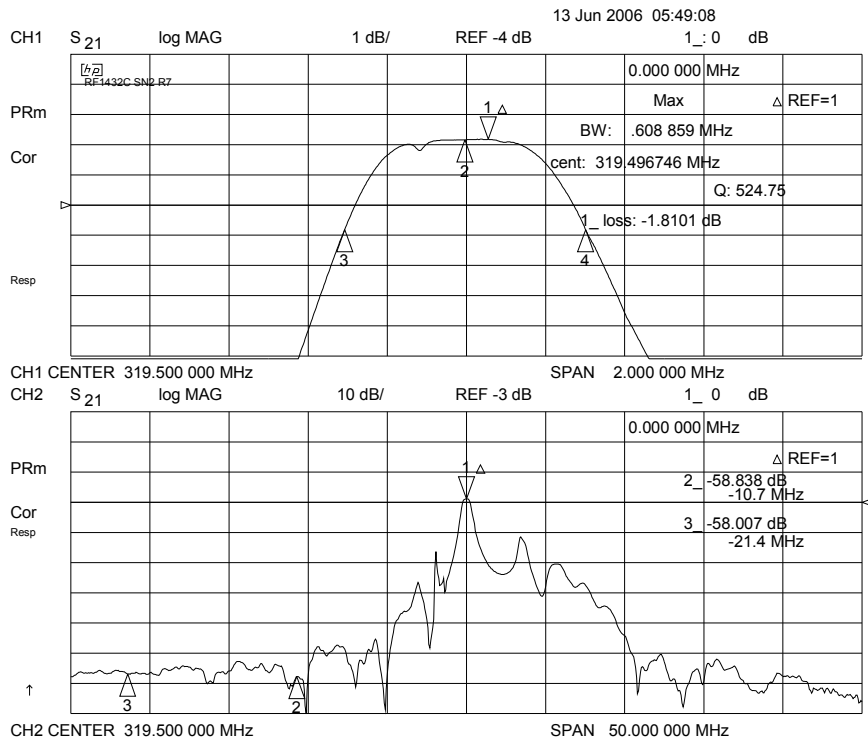
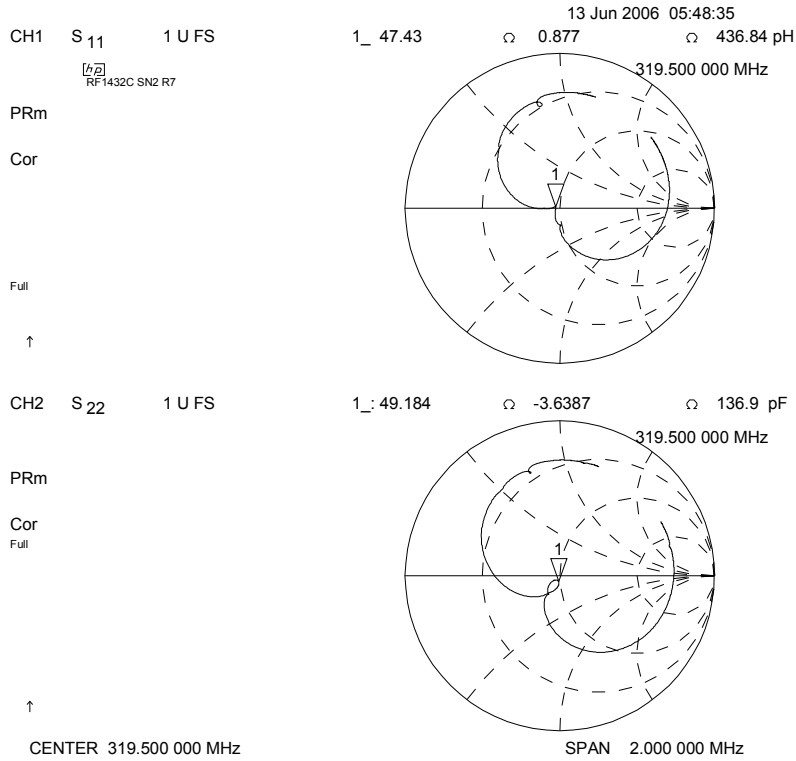
Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
Center Frequency at 25°C Absolute Frequency Tolerance from 319.500 MHz	$f_C$		319.420		319.580	MHz
	$\Delta f_C$				±80	kHz
Insertion Loss	IL			1.8	2.8	dB
3 dB Bandwidth	$BW_3$		500	600	800	kHz
Rejection at $f_C - 21.4$ MHz (Image) at $f_C - 10.7$ 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 <sup>2</sup>
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 (Y = Year, WW = Week, S = Shift)			621, <u>YWWS</u>			



**CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.**

**NOTES:**

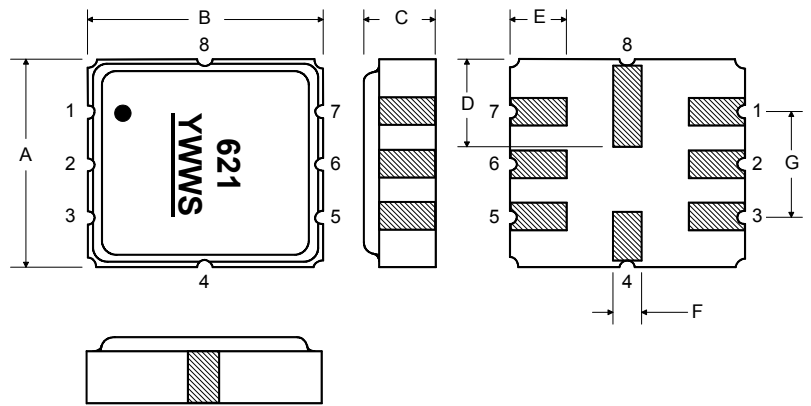
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.



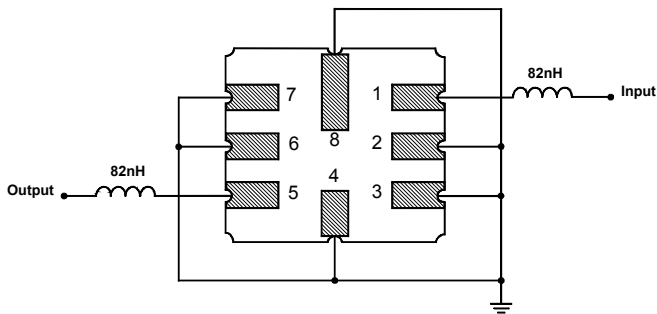
Rating	Value	Units
Input Power Level	10	dBm
DC Voltage	12	VDC
Storage Temperature <sup>5</sup>	-40 to +85	°C
Soldering Temperature	(10 seconds / 5 cycles max.)	°C

### 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



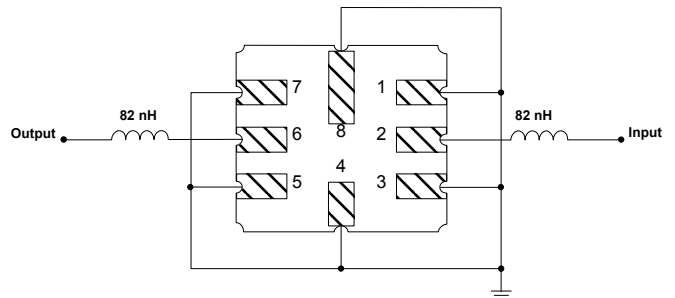
### Case Dimensions

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

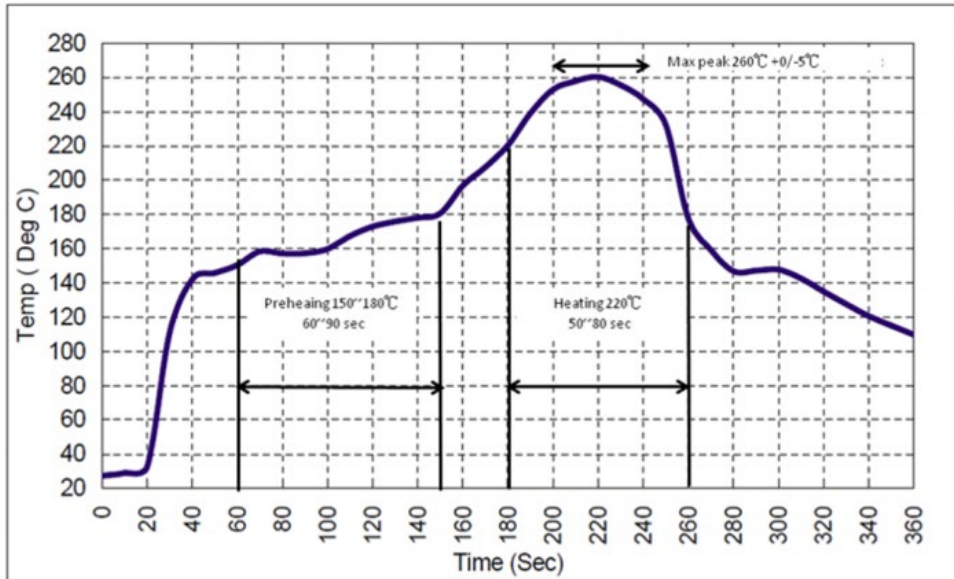
Pin	Connection
1	Input Ground
2	Input
3	Ground
4	Case Ground
5	Output Ground
6	Output
7	Ground
8	Case Ground

### Matching Circuit to 50Ω





## Recommended Reflow Profile

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C +0/-5°C peak (10 seconds).
4. Time: 5 times maximum.



## Looking for pricing, stock, or lifecycle information?

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-  [RF Monolithics, Inc Information](#)

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