

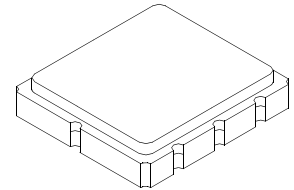
- ***Ideal Front-End Filter for Wireless Receivers***
- ***Low-Loss, Coupled-Resonator Quartz Design***
- ***Simple External Impedance Matching***
- ***Complies with Directive 2002/95/EC (RoHS)***
- ***Tape and Reel Standard per ANSI/EIA-481***
- ***Moisture Sensitivity Level: 1***

The RF3355C is a low-loss, compact, and economical surface-acoustic-wave (SAW) filter designed to provide front-end selectivity in 390 MHz receivers. Receiver designs using this filter include superhet with 10.7 MHz or 500 kHz IF, direct conversion and superregen. Typical applications of these receivers are wireless remote-control and security devices.

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.

RF3355C

390.0 MHz SAW Filter



SM5050-8 Case
5 x 5

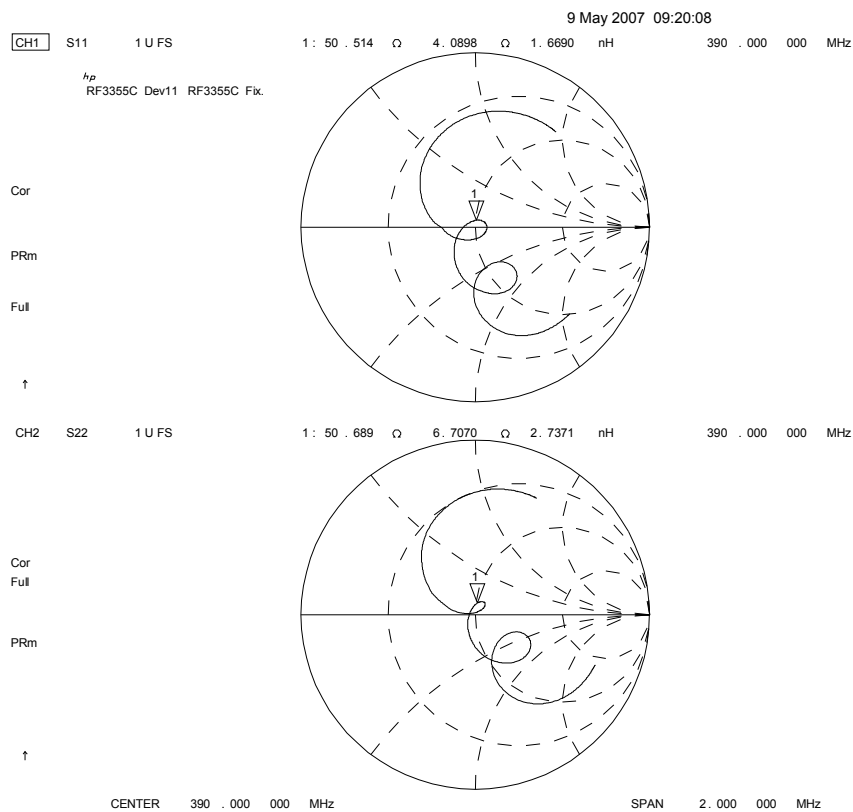
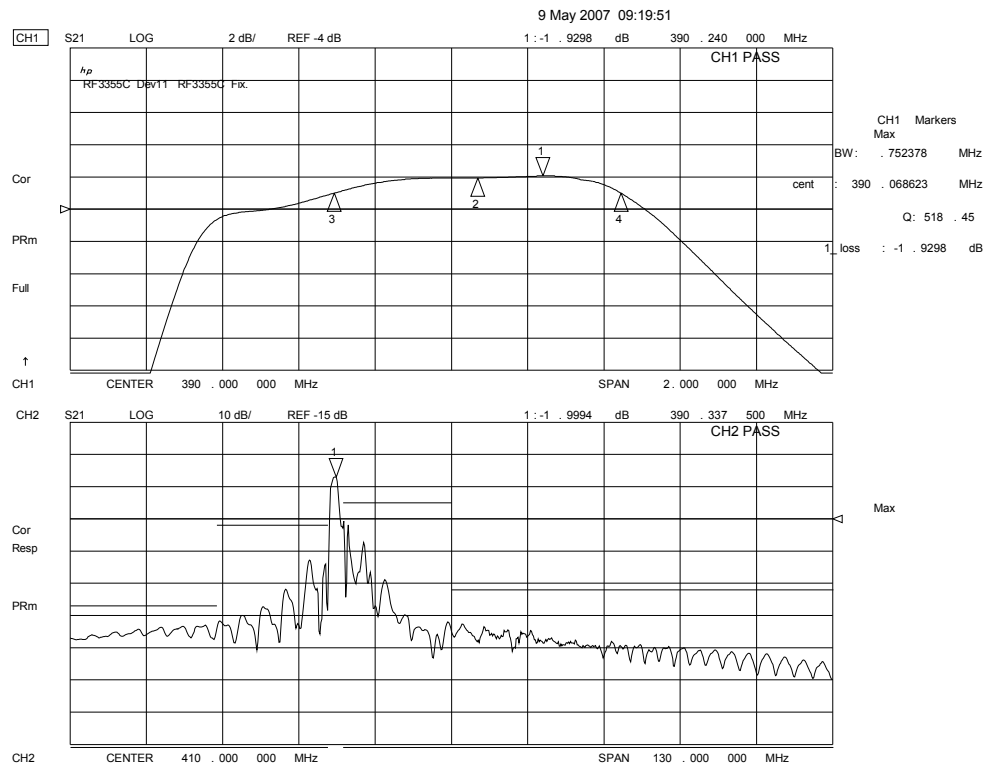
Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
Center Frequency at 25°C Absolute Frequency	f _C			390.0		MHz
Tolerance from 390.0 MHz	Δf _C				±100	kHz
Minimum Insertion Loss 389.82 -390.22 MHz	IL _{min}			2.0	4.0	dB
Passband (relative to IL _{min}) 389.77 -390.2 389.71 -390.26				1.5	3.0	dB
				2.0	6.0	
Passband (relative to IL _{min})	BW ₃		500	1100		kHz
Attenuation: (relative to IL _{min}) 0 - 345 MHz 345 - 370 MHz 370 - 388.94 MHz 391.5 - 410 MHz 410 - 475 MHz 475 - 1000 MHz			45	50		dB
			40	45		
			15	25		
			8	13		
			35	45		
			45	55		
Impedance at F _C ; Input Z _{IN} =R _{IN} //C _{IN}			344Ω // 4.9pF			
Output Z _{OUT} =R _{OUT} //C _{OUT}			344Ω // 4.9pF			
Turnover To				25		°C
Frequency Aging Absolute Value During the First Year			≤10 ppm/yr Typical			
Lid Symbolization (iY = Year, WW = Week, S = Shift)	736, <u>YWWS</u>					
Standard Reel Quantity Reel Size 7 Inch Reel Size 13 Inch	500 Pieces/Reel					
	3000 Pieces/Reel					



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

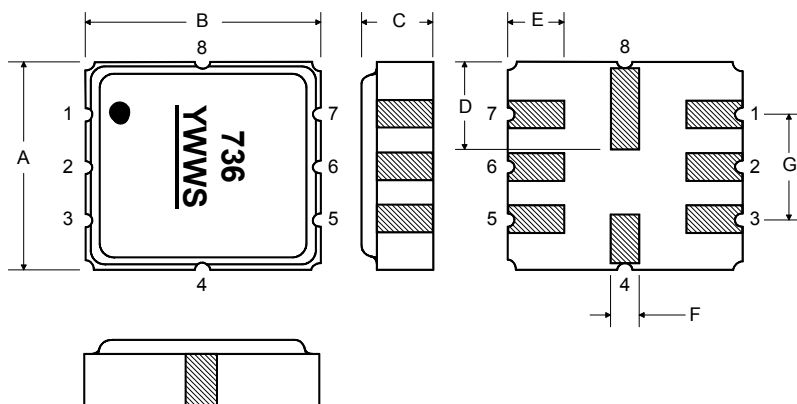
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.



Rating	Value	Units
Input Power Level	10	dBm
DC Voltage	12	VDC
Storage Temperature	-45 to +85	°C
Operating Temperature	-35 to +85	°C
Soldering Temperature	(10 seconds / 5 cycles max.)	260 °C

Electrical Connections

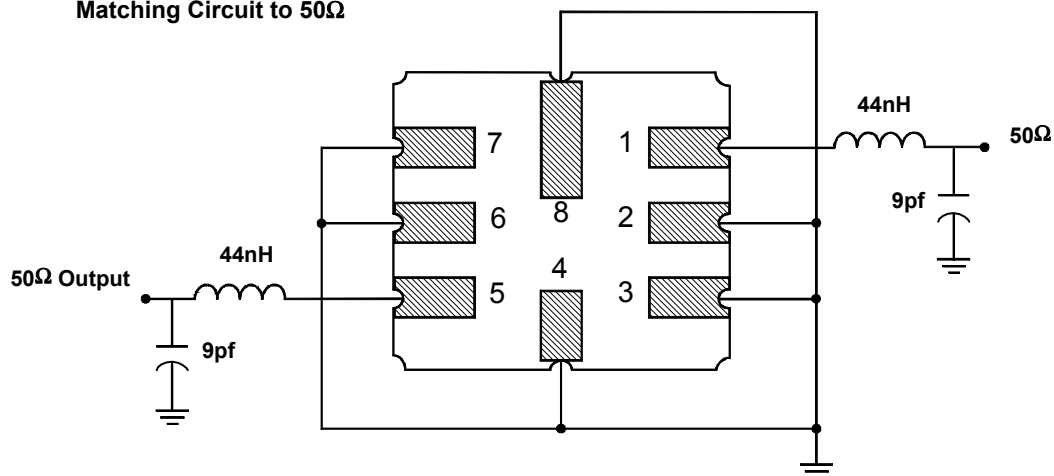
Pin	Connection
1	Input
2	Input Ground
3	to be Grounded
4	Case Ground
5	Output
6	Output Ground
7	to be Grounded
8	Case Ground



Case Dimensions

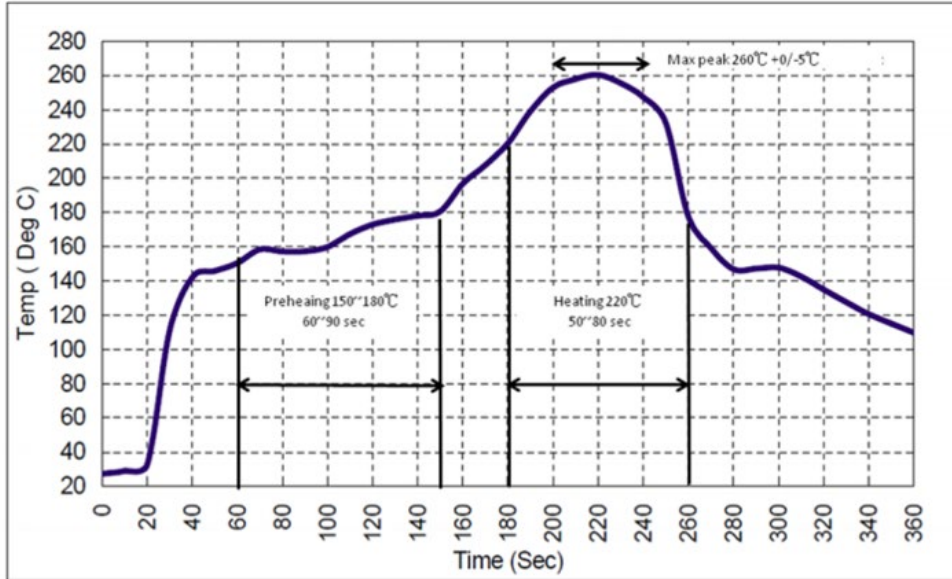
Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	4.8	5.0	5.2	0.189	0.197	0.205
B	4.8	5.0	5.2	0.189	0.197	0.205
C			1.7			0.067
D		2.08			0.082	
E		1.17			0.046	
F		0.64			0.025	
G	2.39	2.54	2.69	0.094	0.100	0.106

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.



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