AEC-Q200
This component was always RoHS compliant from the first date of manufacture.

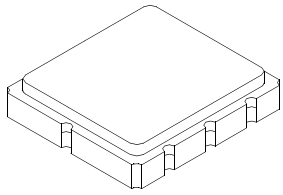
RF3355C

390.0 MHz SAW Filter

- ***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***

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.



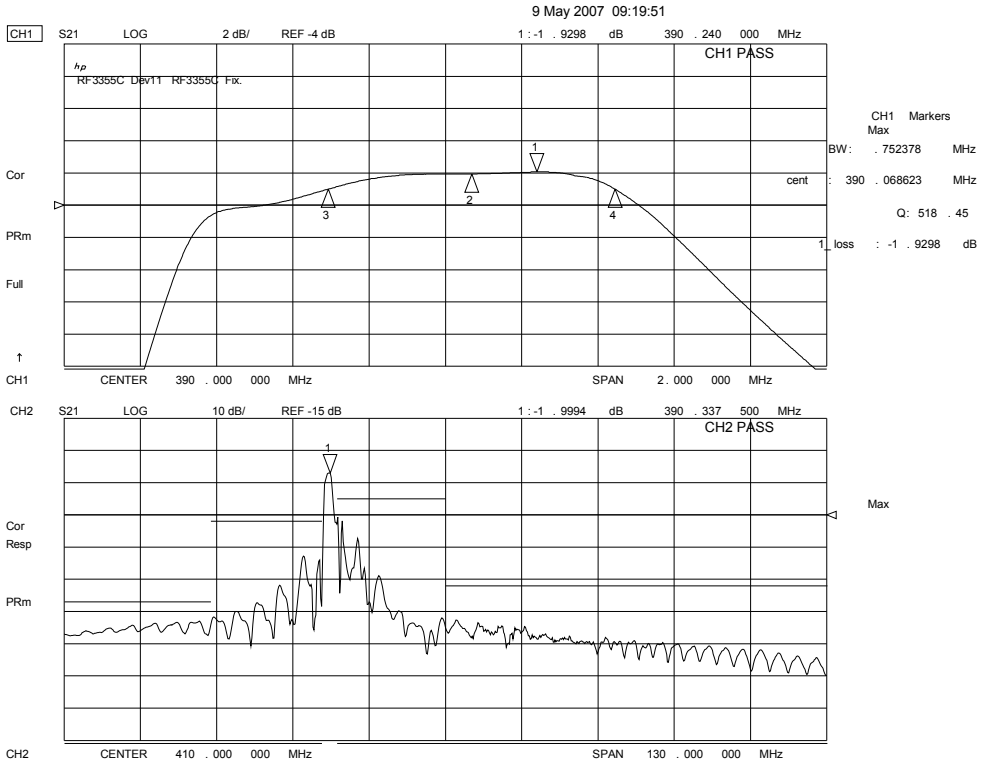
SM5050-8 Case
5 x 5

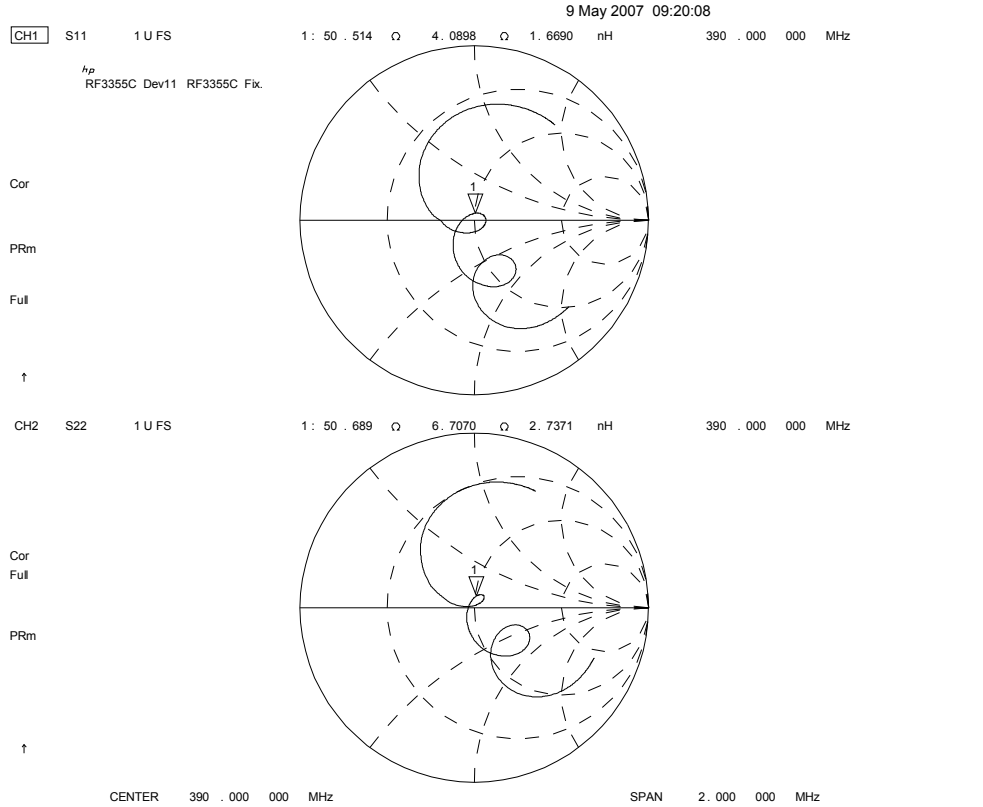
Characteristic		Sym	Notes	Minimum	Typical	Maximum	Units
Center Frequency at 25°C	Absolute Frequency	f_C			390.0		MHz
Tolerance from 390.0 MHz		Δf_C				±100	kHz
Minimum Insertion Loss 389.82 -390.22 MHz		IL_{min}			2.0	4.0	dB
Passband (relative to IL_{min})	389.77 -390.2				1.5	3.0	dB
	389.71 -390.26				2.0	6.0	
Passband (relative to IL_{min})		BW_3		500	1100		kHz
Attenuation: (relative to IL_{min})	0 - 345 MHz			45	50		dB
	345 - 370 MHz			40	45		
	370 - 388.94 MHz			15	25		
	391.5 - 410 MHz			8	13		
	410 - 475 MHz			35	45		
	475 - 1000 MHz			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 (in addition to Lot and/or Date Codes)		736, YWWS					
Standard Reel Quantity	Reel Size 7 Inch	500 Pieces/Reel					
	Reel Size 13 Inch	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.

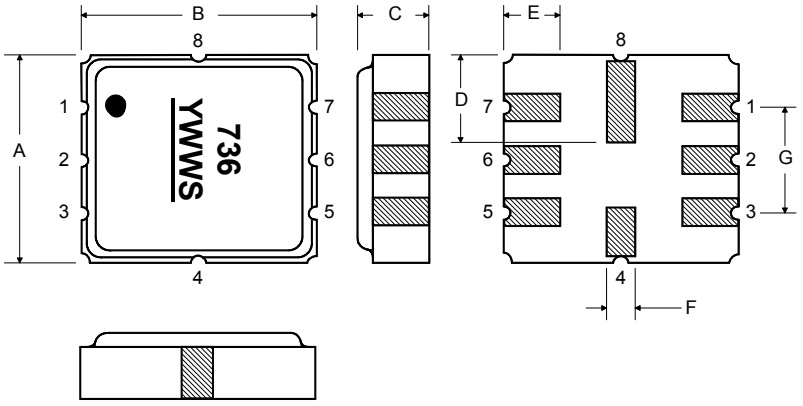




Rating		Value	Units
Input Power Level		10	dBm
DC Voltage		12	VDC
Storage Temperature		-45 to +85	°C
Operating Temperature		-35 to +85	°C
Soldering Temperature	(10 seconds / 5 cycles max.)	260	°C

Electrical Connections

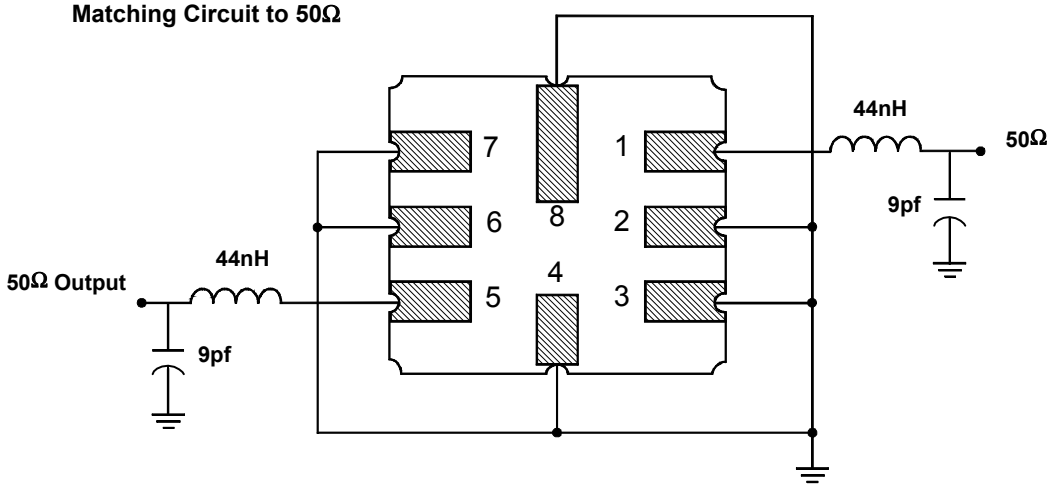
Pin	Connection
1	Input
2	Input Ground
3	to be Grounded
4	Case Ground
5	Output
6	Output Ground
7	to be Grounded
8	Case Ground



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