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RF3319E

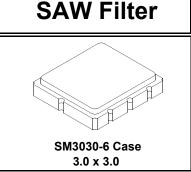
868.95 MHz

• 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)



The RF3319E is a low-loss, compact, and economical surface-acoustic-wave (SAW) filter designed to provide front-end selectivity in 868.95 MHz receivers. Receiver designs using this filter include superheterodyne receivers with 10.7 MHz or lower intermediate frequencies, plus direct conversion and superregenerative receivers. Typical applications of these receivers are wireless remote-control and security devices operating in Europe under ETSI I-ETS 300 220 regulations.

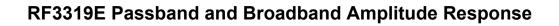


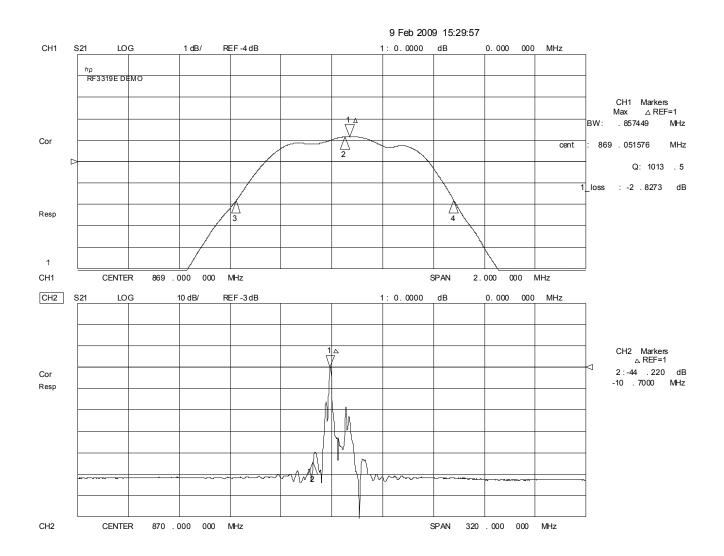
Characteristic		Sym	Notes	Minimum	Typical	Maximum	Units
Center Frequency @ 25°C		f _C	1, 2, 3	868.80	868.95	869.10	MHz
Insertion Loss	Insertion Loss		1		2.4	4.0	dB
3 dB Bandwidth		BW ₃	1, 3	800	900	1000	kHz
Passband Ripple, Fc ±300 kHz			1, 3		1.2	2.0	dB _{P-P}
	10 - 859 MHz			33	35		dB
	859 - 864 MHz			32	34		
Attenuation: (relative to IL _{MIN})	864 - 867.2 MHz		1, 3	12	14		
	870.6 - 872 MHz		1, 5	19	21		
	872 - 895 MHz			15	17		
	895 - 1030 MHz			38	40		
Temperature	Freq. Temp. Coefficient	FTC	3, 4		0.032		ppm/ °C ²
Frequency Aging	Absolute Value during the First Year	fA	5		<±10		ppm/yr
Impedance @ f _C	Input Z _{IN} = R _{IN} C _{IN}	Z _{IN}	1	84.13 Ω 6.0 pF			
	Output Z _{OUT} = R _{OUT} C _{OUT}	Z _{OUT}		180.84 Ω 4.0 pF			
Lid Symbolization (in addition to Lot and/or Date Codes)		695 // YWWS					
Standard Reel Quantity7 Inch ReelStandard Reel Quantity13 Inch Reel			9	500 Pieces/Reel			
			9	3000 Pieces/Reel			



NOTES:

- Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture which is connected to a 50 Ω test system with VSWR ≤ 1.2:1. The 1. test fixture L and C are adjusted for minimum insertion loss at the filter center frequency, fc. Note that insertion loss and bandwidth are dependent on the impedance matching component values and quality.
- 2 The frequency f_c is defined as the midpoint between the 3 dB frequencies.
- 3. 4.
- Where noted, specifications apply over the entire specified operating temperature range of -40 to 90 °C. The turnover temperature, T_{O} , is the temperature of maximum (or turnover) frequency, f_{o} . The nominal frequency at any case temperature, T_{c} , may be calculated from: $f = f_0 [1 - FTC (T_0 - T_c)^2].$
- Frequency aging is the change in fc with time and is specified at +65°C or less. Aging may exceed the specification for prolonged temperatures above +65 °C. Typically, 5. The design, manufacturing process, and specifications of this device are subject to change without notice. One or more of the following U.S. Patents apply: 4,54,488, 4,616,197, and others pending. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale. Tape and Reel Standard for ANSI / EIA 481.
- 6.
- 8. 9.

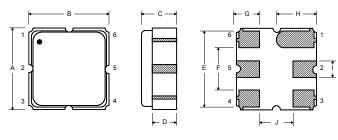




Rating	Value	Units	
Input Power Level	10	dBm	
DC Voltage	12	VDC	
Storage Temperature	-40 to +125	°C	
Operating Temperature Range	-40 to +125	°C	
Soldering Temperature, 10 seconds / 5 cycles maximum	260	°C	

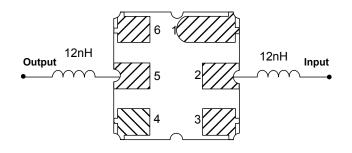
Electrical Connections

Pin	Connection
1	Input Ground
2	Input
3	Ground
4	Output Ground
5	Output
6	Ground





Case Dimensions



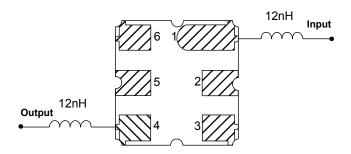
OPTIONAL

Electrical Connections

Pin	Connection		
1	Input		
2	Input Ground		
3	Ground		
4	Output		
5	Output Ground		
6	Ground		

Dimension	mm			Inches			
	Min	Nom	Max	Min	Nom	Мах	
Α	2.87	3.0	3.13	0.113	0.118	0.123	
В	2.87	3.0	3.13	0.113	0.118	0.123	
С	1.12	1.25	1.38	0.044	0.049	0.054	
D	0.77	0.90	1.03	0.030	0.035	0.040	
E	2.67	2.80	2.93	0.105	0.110	0.115	
F	1.47	1.6	1.73	0.058	0.063	0.068	
G	0.72	0.85	0.98	0.028	0.033	0.038	
н	1.37	1.5	1.63	0.054	0.059	0.064	
I	0.47	0.60	0.73	0.019	0.024	0.029	
J	1.17	1.30	1.43	0.046	0.051	0.056	

Matching Circuit to 50Ω



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