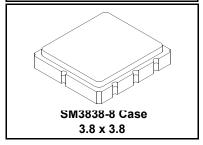




RFM products are now Murata products.

RF1400D





- Ideal Front-End Filter for European Wireless Receivers
- · Low-Loss, Coupled-Resonator Quartz Design
- · Simple External Impedance Matching
- · Wide Bandwidth for Multi-Channel Receiver Application
- Complies with Directive 2002/95/EC (RoHS)

The RF1400D is a low-loss, compact, and economical surface-acoustic-wave (SAW) filter designed to provide front-end selectivity in 433.92 MHz receivers. Receiver designs using this filter include superhet with 10.7 MHz or 500 kHz IF, direct conversion and superregen. Wider bandwidth for channelized receiver applications.

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. Murata's advanced SAW design and fabrication technology is utilized to achieve high performance and very low loss with simple external impedance matching.

Characteristic		Sym	Notes	Minimum	Typical	Maximum	Units
Center Frequency at 25°C	Absolute Frequency	f _c	1, 2, 3		433.92		MHz
Insertion Loss		IL	1, 3		2.0	3.0	dB
3 dB Bandwidth		BW ₃	1, 2, 3	1000	1150		kHz
Rejection	10 - 414 MHz		1, 3	40	50		dB
	414 - 425 MHz			30	40		
	426 - 432 MHz			16	20		
	435 - 442 MHz			10	15		
	442 - 550 MHz			26	30		
	550 - 1000 MHz			45	50		
Frequency Temperature C	requency Temperature Coefficient				0.032		ppm/°C ²
Frequency Aging	Absolute Value during the First Year	fA	5		≤10		ppm/yr
Impedance @ fc	Input $Z_{IN} = R_{IN}IIC_{IN}$	Z _{IN}	4	279Ω II 4.1pf			
	Output $Z_{OUT} = R_{OUT} IC_{OUT}$	Z _{OUT}	1	279Ω II 4.1pf			
Lid Symbolization (Y=year	WW=week D=day of week)			490 //	YWWS		
Standard Reel Quantity	Reel Size 7 Inch		9	500 Pieces/Reel			
	Reel Size 13 Inch		Э	3000 Pieces/Reel			

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

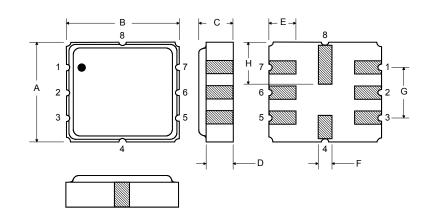
NOTES:

- 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 \leq 1.2:1. The test fixture L and C are adjusted for minimum insertion loss at the filter center frequency, fc. Note that insertion loss and bandwidth and passband shape are dependent on the impedance matching component values and quality.
- The frequency f_c is defined as the midpoint between the 3dB frequencies.
- Where noted specifications apply over the entire specified operating temperature range of -40°C to +105°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, aging is greatest the first year after manufacture, decreasing significantly in subsequent years. The design, manufacturing process, and specifications of this device are subject to change. 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 Per ANSI / EIA 481.

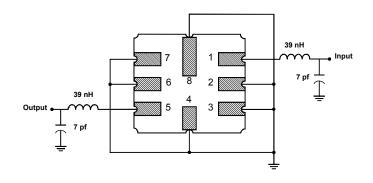
Rating		Value	Units
Input Power Level		10	dBm
DC Voltage		12	VDC
Storage Temperature		-40 to +125	°C
Operable Temperature		-40 to +125	°C
Soldering Temperature	(10 seconds / 5 cycles max.)	260	°C

Electrical Connections

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

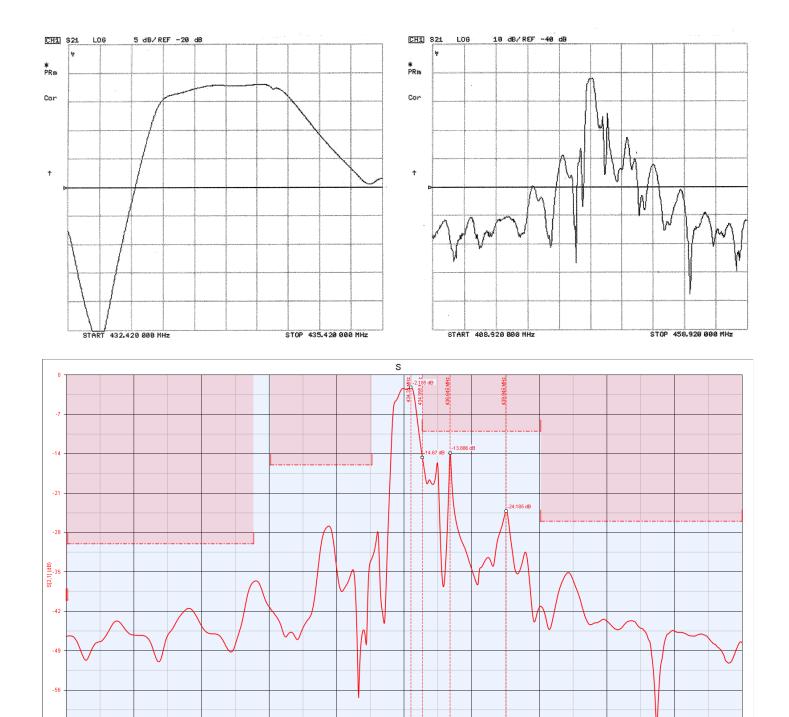


Matching Circuit to 50Ω



Case Dimensions

Dimension	mm			Inches			
	Min	Nom	Max	Min	Nom	Max	
Α	3.6	3.8	4.0	0.14	0.15	0.16	
В	3.6	3.8	4.0	0.14	0.15	0.16	
С	1.00	1.20	1.40	0.04	0.05	0.055	
D	0.95	1.10	1.25	0.033	0.043	0.05	
E	0.90	1.0	1.10	0.035	0.04	0.043	
F	0.50	0.6	0.70	0.020	0.024	0.028	
G	2.39	2.54	2.69	0.090	0.100	0.110	
Н	1.40	1.75	2.05	0.055	0.069	0.080	



417.92

421.92

425.92

-70 413.92

449.92

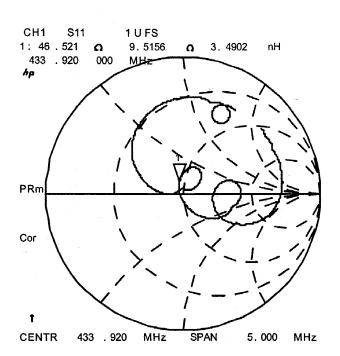
453.92

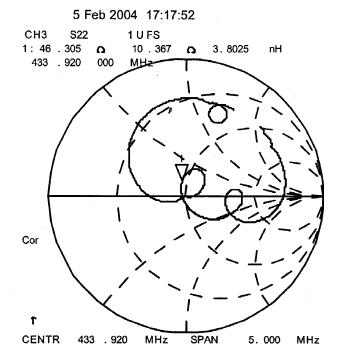
429.92

437.92

441.92

445.92





单击下面可查看定价,库存,交付和生命周期等信息

>>Murata(村田)