



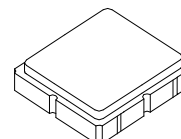
SF1174D

- **Designed for 802.11 Applications**
- **Hermetically sealed Surface Mount package**

374.00 MHz SAW Filter

Absolute Maximum Ratings

Rating	Value	Units
Maximum Input Power	+10	dBm
DC Voltage Between Terminals	30	VDC
Case Temperature	-40 to +85	°C



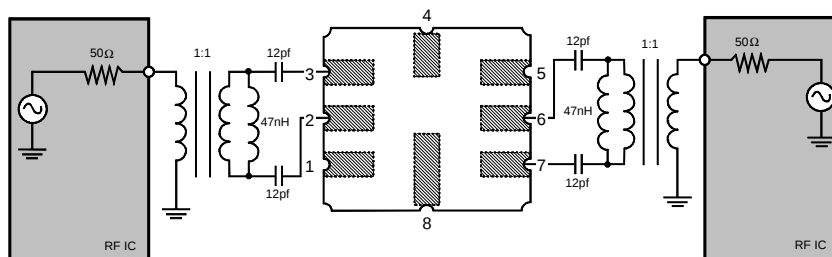
SM3838-8 Case

Electrical Characteristics

Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
Nominal Operating Frequency	f_C			374		MHz
Passband	Insertion Loss	IL		8.6	10	dB
	3.0 dB Bandwidth		17	23.3		MHz
Amplitude Ripple	$F_c \pm 7$ MHz			.6	1.0	dB
Group Delay Deviation	$F_c \pm 7$ MHz			45	100	nsec
Rejection	$F_c - 100$ to -33 MHz		40	47		dB
	$F_c - 33$ to -22 MHz		40	48		dB
	$F_c - 22$ to -16.5 MHz		27	40		dB
	$F_c + 16.5$ to $+22$ MHz		28	44		dB
	$F_c + 22$ to $+43$ MHz		35	44		dB
	$F_c + 43$ to $+80$ MHz		40	45		dB
Ambient Temperature	Operating Range		-20		70	°C
Footprint Size: 3.8 X 3.8	SM3838-8					
Lid Symbolization (Y=Year, WW=week, S=shift)	479 // YWWS					

Electrical Connections

Connection	Terminals
Differential Input	2, 3
Differential Output	6, 7
Ground	All Others



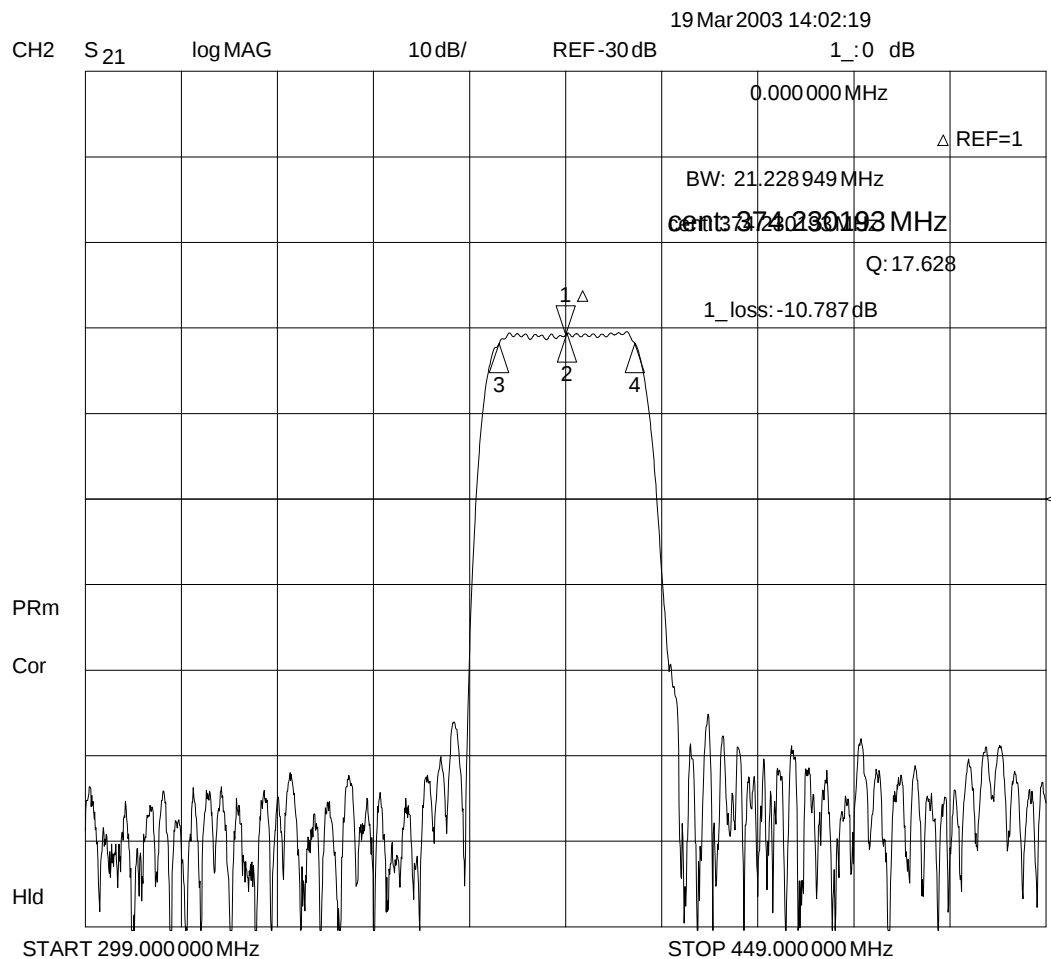
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

Notes:

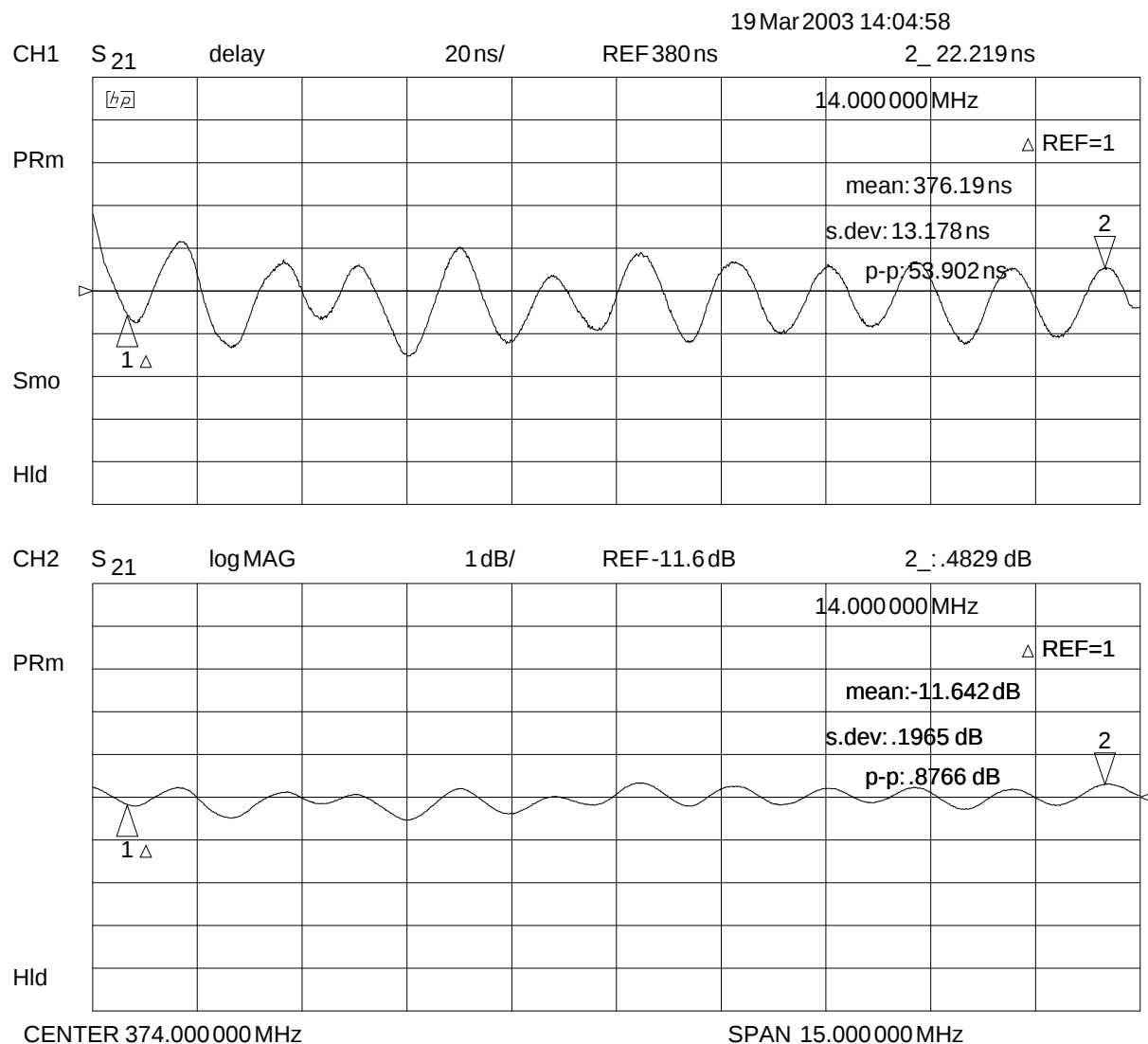
- 1.) All specifications apply over the operating temperature range with filter soldered to the specified demonstration board unless noted otherwise.
- 2.) Ultimate rejection is dependent on PCB layout.
- 3.) Specifications subject to change without notice.
- 4.) Electrostatic Sensitive Device. Observe precautions for handling.
- 5.) US and international patents may apply.
- 6.) RFM, RFM logo, and RF Monolithics, Inc. are registered trademarks of RF Monolithics, Inc.

SF1174D-Demo Reference Plot

1dB per transformer insertion loss is not calibrated out

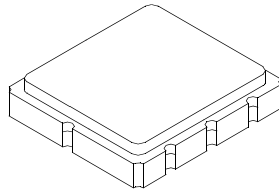


SF1174D-Demo Reference Plot



SM3838-8 Case

8-Terminal Ceramic Surface-Mount Case
3.8 X 3.8 mm Nominal Footprint



Case Dimensions

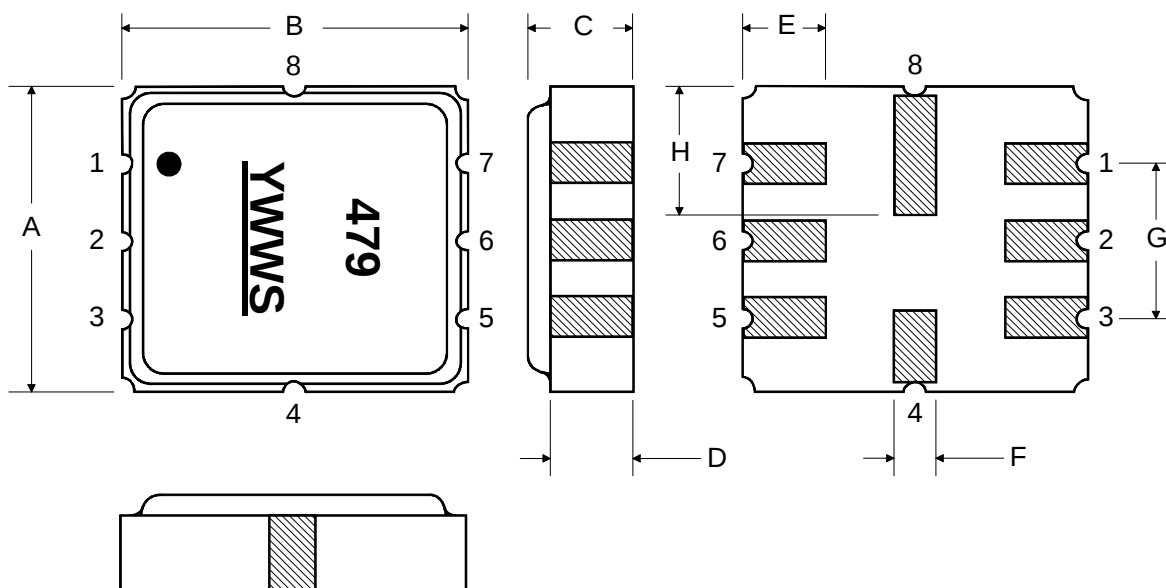
Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	3.6	3.8	4.0		0.15	
B	3.6	3.8	4.0		0.15	
C			1.25		0.06	
D		1.0			0.04	
E		1.0			0.04	
F		0.6			0.02	
G	2.39	2.54	2.69		0.100	
H		1.5			0.06	

Electrical Connections

	Connection	Terminals
Port 1	Differential Input	2, 3
Port 2	Differential Output	6, 7
	Ground	All Others
Single Ended Operation		Return is Ground
Differential Operation		Return is Hot
Dot Indicates Pin 1		

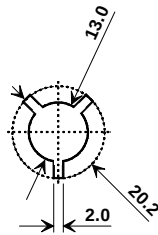
TOP VIEW

BOTTOM VIEW



Technical drawing of a circular object, likely a cross-section of a pipe or a similar component. The drawing includes a large outer circle and a smaller inner circle, both centered on a common point. A horizontal dashed line and a vertical dashed line intersect at the center. A small circle with a cross inside is located at the center of the inner circle. A leader line points from the text "tail 'A'" to this central feature. To the right of the main drawing, there are two vertical dimension lines. The first dimension line is labeled "100 REF." and the second dimension line is labeled "'B" REF.". Below these, there is a horizontal dimension line labeled "12.0".

“B “ Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	3000



Carrier Tape Dimensions	
Ao	4.25 mm
Bo	4.25 mm
Ko	1.30 mm
Pitch	8.0 mm
W	12.0 mm

