RFMi
A BRAND OF AKOUSTIS

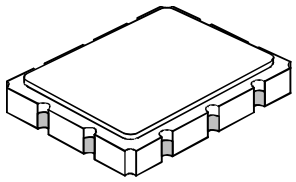
Proprietary

RoHS compliant

SF2483A

104.2 MHz SAW Filter

- ***9.1 x 7.1 mm***
- ***Complies with Directive 2002/95/EC (RoHS)***
- ***Moisture Sensitivity Level: 1***



SM9171-10

Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Max. DC voltage between any 2 terminals	5.0	VDC
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Specification Temperature Range	-40 to +85	°C
Solder Reflow Temperature, 5 Cycles Maximum	260°C for 10 s	

Electrical Characteristics

Characteristic	Sym	Notes	Min	Typ	Max	Units
Nominal Center Frequency	f_C			104.2		MHz
Passband Flatness 103.4 to 105.0 MHz	p-p			0.9	2	dB
Insertion Loss	IL					dB
103.5 to 104.9 MHz				8.0	9.0	
103.2 to 103.5 MHz				9.0	10	
104.9 to 105.2 MHz				10	11	
Group Delay Ripple 103.4 to 105.0 MHz				45	60	ns
Rejection						dB
Fc-50 to Fc-20 MHz			40	45		
Fc-20 to Fc-10 MHz			35	40		
Fc-10 to 102.2 MHz			20	30		
106.2 to Fc+10 MHz			20	30		
Fc+10 to Fc+ 20 MHz			30	40		
Fc+20 to Fc+30 MHz			40	50		
Operating Temperature Range	T_A		-40		+85	°C

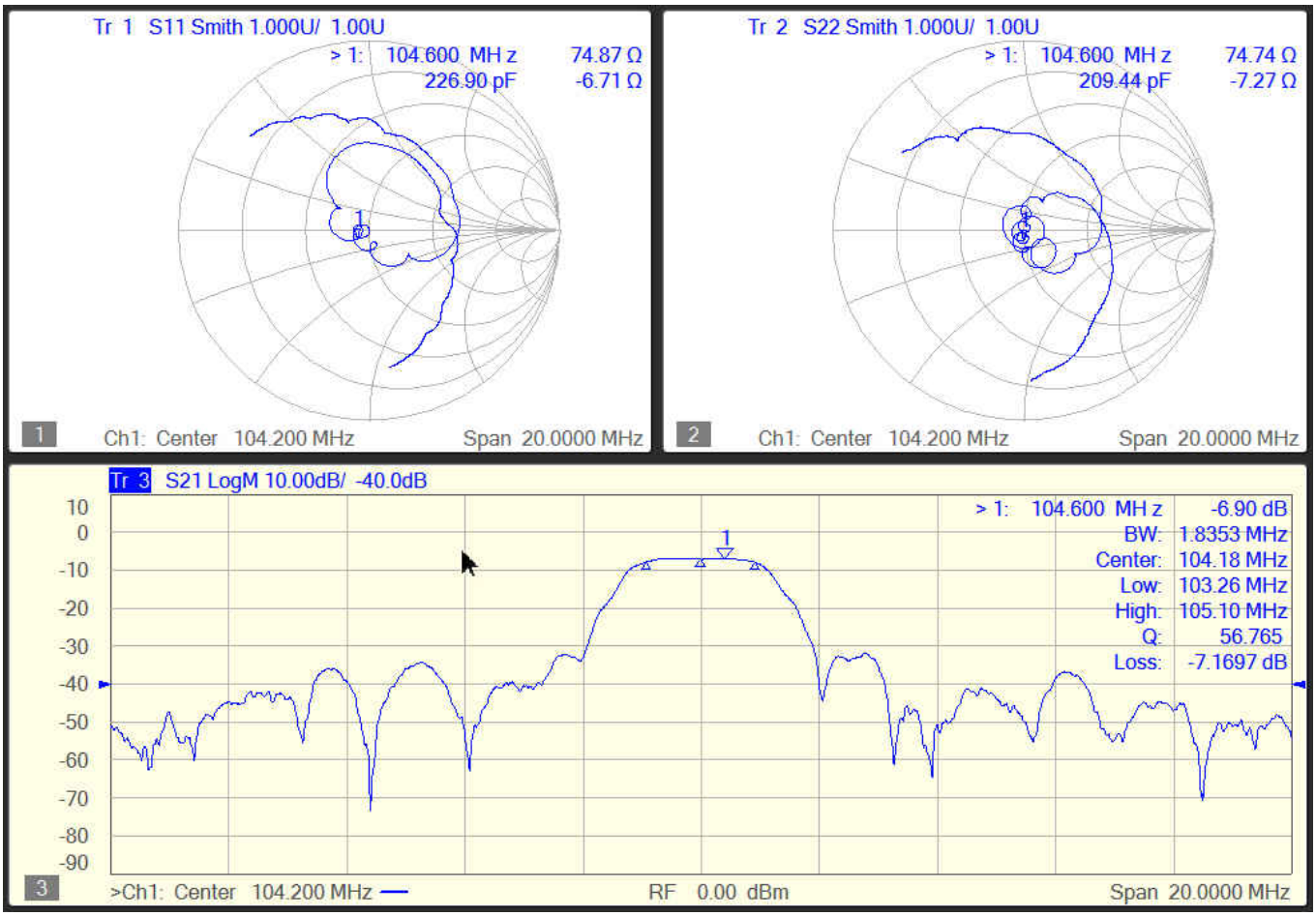
Source Impedance	75Ω
Load Impedance	75Ω
Case Style	SMP9171-10 9.1 x 7.1 mm Nominal Footprint
Lid Symbolization (YY = year, WW = week, S = Shift, ## = Sequence Code)	RFM SF2483A YYWWS##

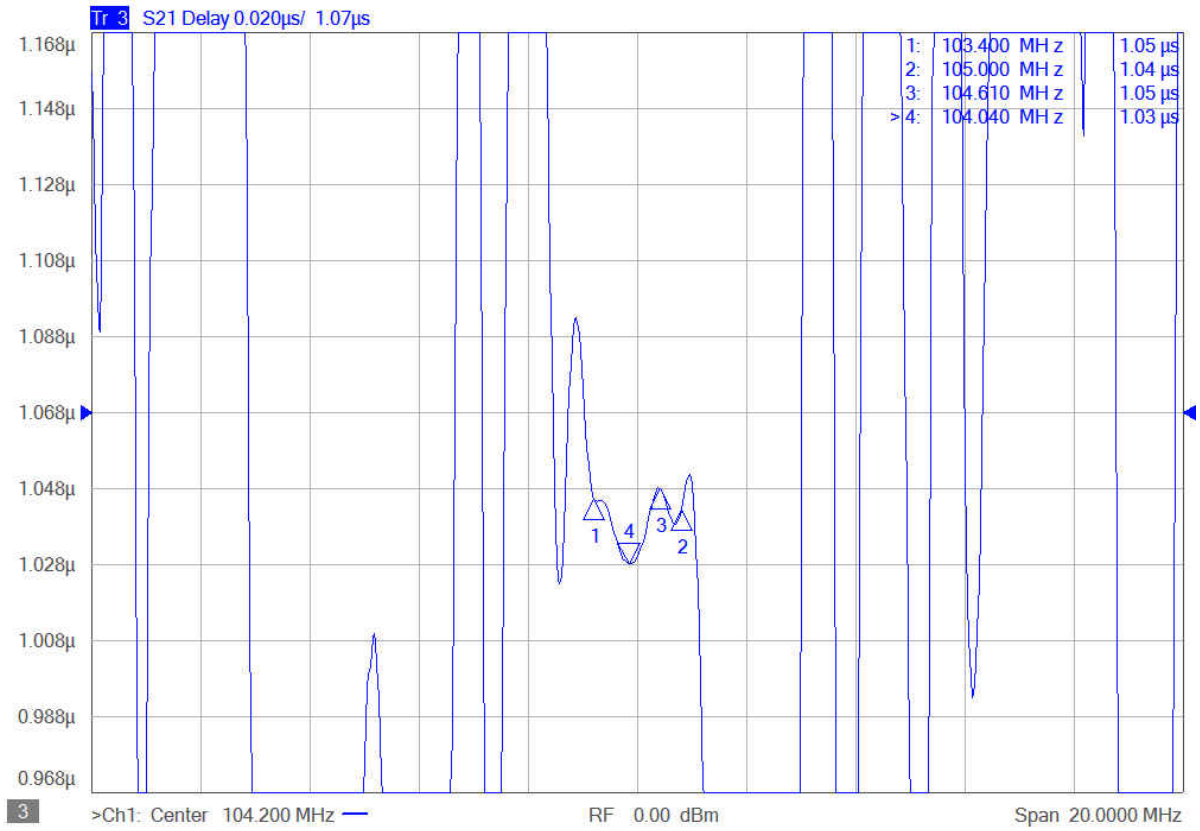
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

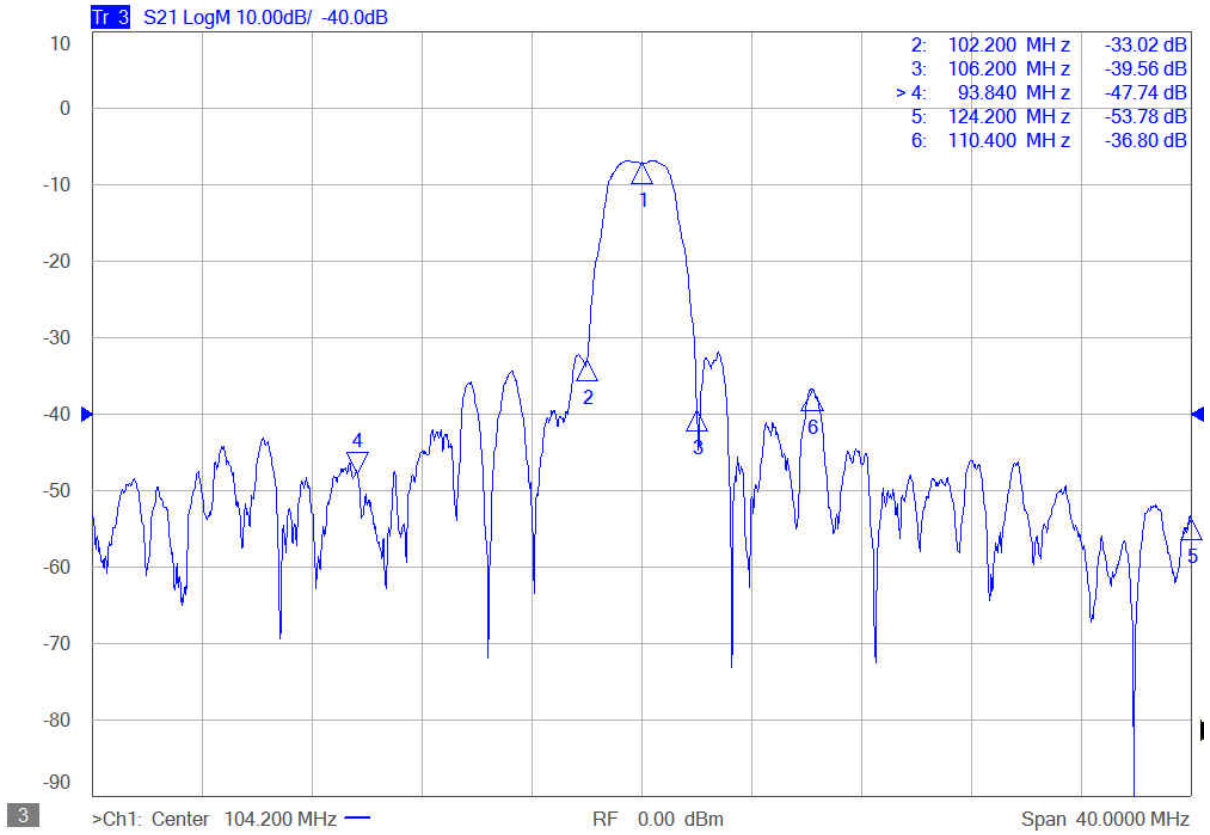
NOTES:

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.

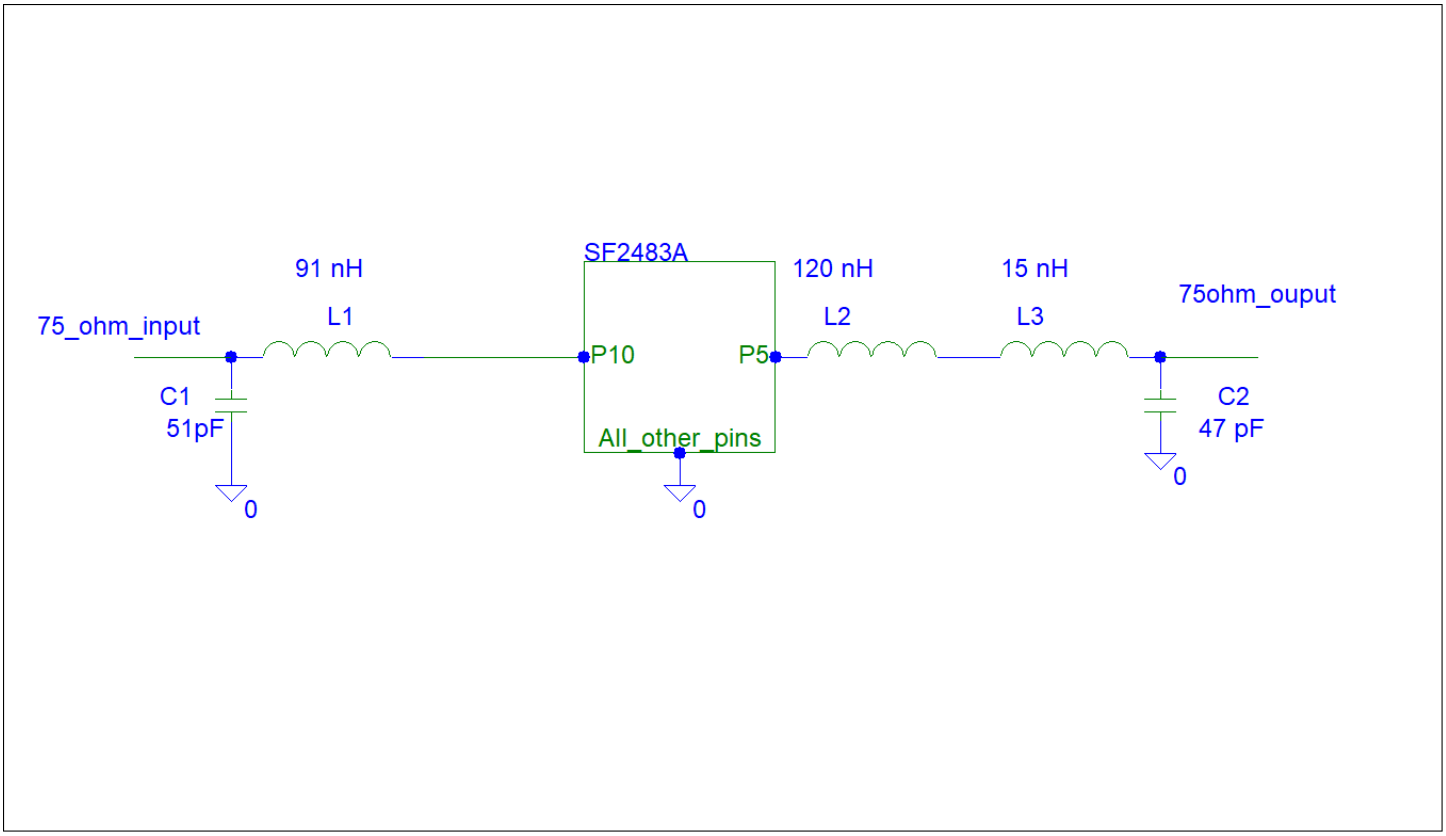
Frequency Characteristics







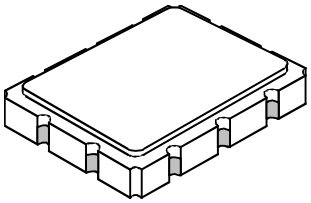
Measurement Circuit



SM9171-10 Case

10-Terminal Ceramic Surface-Mount Case

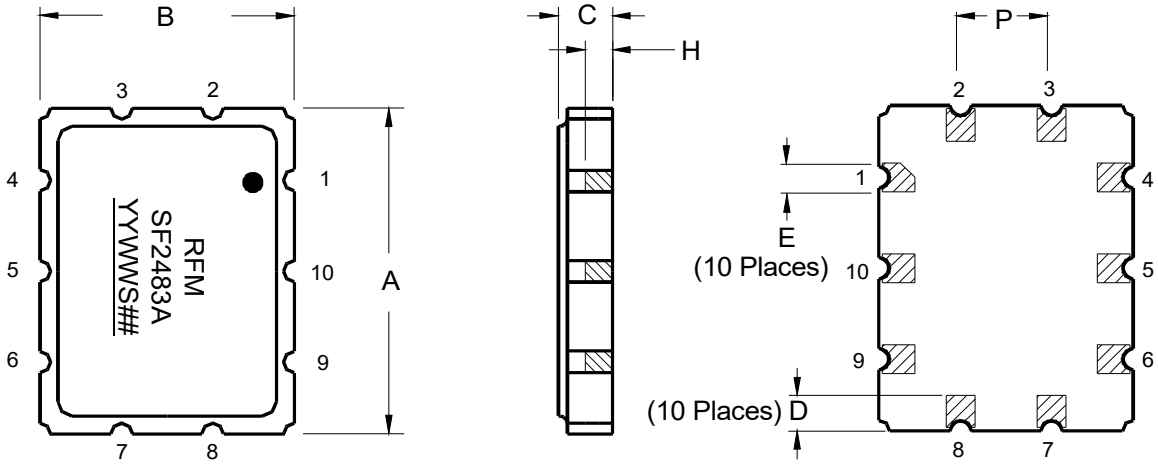
9.1 x 7.1 mm Nominal Footprint



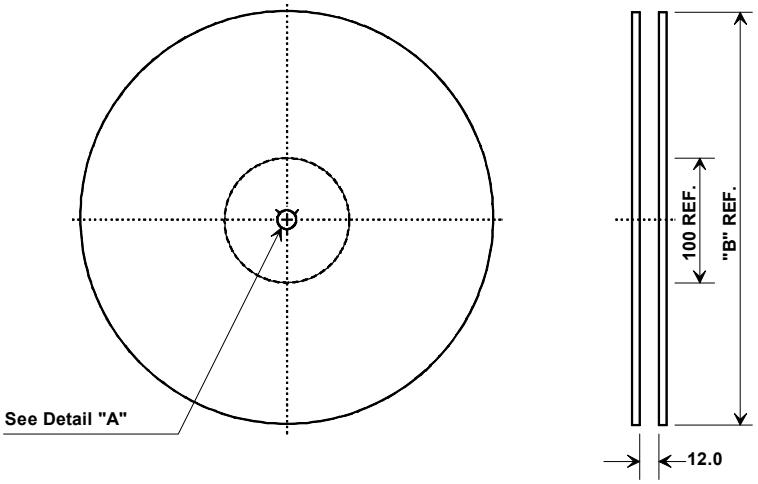
Case Dimensions						
Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	8.86	9.09	9.40	0.349	0.358	0.370
B	6.88	7.11	7.40	0.271	0.280	0.291
C		1.91	2.00		0.075	0.079
D		0.99			0.039	
E		0.79			0.031	
H		1.0			0.039	
P		2.54			0.100	

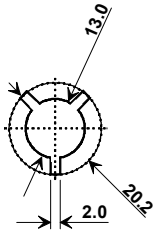
Materials	
Solder Pad Termination	Au plating 30 - 60 µ inches (76.2-152 µm) over 80-200 µ inches (203-508 µm) Ni.
Lid	Fe-Ni-Co Alloy Electroless Nickel Plate (8-11% Phosphorus) 100-200 µ inches Thick
Body	Al_2O_3 Ceramic

Electrical Connections		
Connection		Terminals
Port 10	Input	10
Port 5	Output	5
Ground		All others



Tape and Reel Specifications



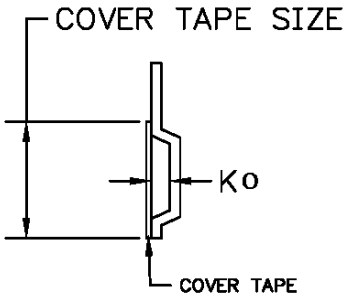


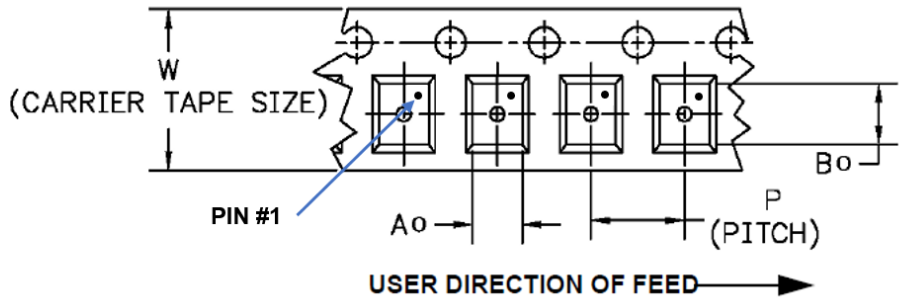
Tape and Reel Standard per ANSI/EIA481

"B" Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	1000

COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions	
Ao	7.5 mm
Bo	9.5 mm
Ko	2.1 mm
Pitch	12 mm
W	16 mm





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.