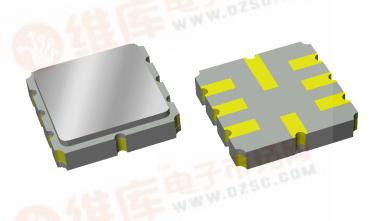


Part Number 855898 374 MHz SAW Filter

Features

- For WLAN applications
- Usable bandwidth of 17 MHz
- High attenuation
- Balanced or Single-ended operation
- Ceramic Surface Mount Package (SMP)
- Small size



Package

Surface Mount 5.00 x 5.00 x 1.32 mm

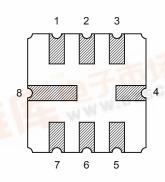
1.32 NOM. 1.52 MAX. 5.00 1.27 5.00 - 2.08 - 0.64

Dimensions shown are nominal in millimeters All tolerances are ±0.15mm except overall length and width ±0.15/±0.10mm

Body: Al₂O₃ ceramic Lid: Kovar, Ni plated Terminations: Au plating 0.5 - 1.0μm, over a 2 - 6µm Ni plating

Pin Configuration

Bottom View



Pin No.	Description		
2	Input return		
3	Input		
6	Output return		
7	Output		
1,4,5,8	Case Ground		



Part Number 855898 374 MHz SAW Filter

Electrical Specifications (1)

Operating Temperature Range: (2) -10 to +80 °C

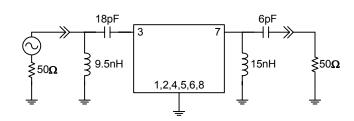
Parameter ⁽³⁾	Minimum	Typical	Maximum	Unit
Center Frequency, f ₀	-	374	-	MHz
Minimum Insertion Loss	-	8.5	10.5	dB
3 dB Bandwidth	17	20.5	-	MHz
Relative Attenuation (4)				
309 - 352 MHz	40	50	-	dB
352 - 357.5 MHz	35	50	-	dB
390.5 - 392 MHz	35	45	-	dB
392 - 396 MHz	35	40	-	dB
396 - 439 MHz	38	42	-	dB
439 - 454 MHz	40	45	-	dB
Passband Variation	-	0.5	1.0	dB
Group Delay Variation	-	40	100	nsec
Triple Transit Suppression	30	40	_	dB
Optimal Source Impedance: (5)	-	50	-	Ω
Optimal Load Impedance: (5)	-	50	-	Ω

Notes:

- 1. All specifications are based on the test circuit shown below
- 2. In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over temperature
- 3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 4. Relative to minimum insertion loss
- 5. Sawtek's production specifications reflect the typical performance in a 50 ohm single-ended system. This filter can be used in both single-ended and/or differential modes at each port. In addition, similar performance can be achieved in source and load impedances ranging from 50 to 1000.

Test Circuit:

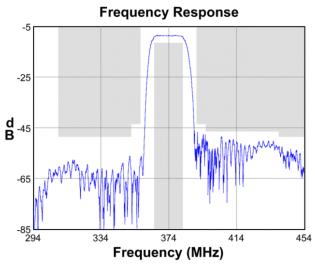
 $50~\Omega$ Single-ended

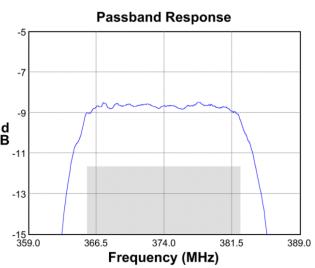


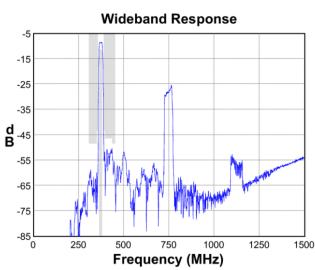


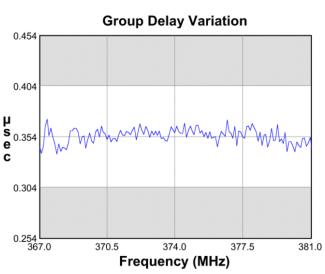
Part Number 855898 374 MHz SAW Filter

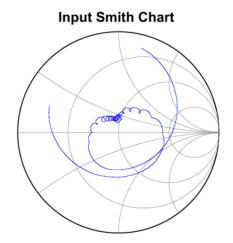
Typical Performance (at +25°C)

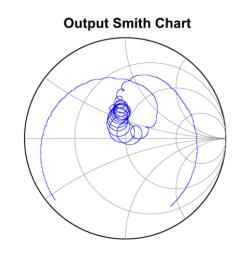








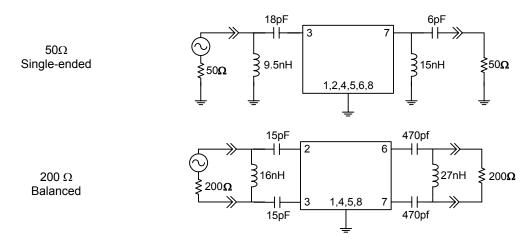






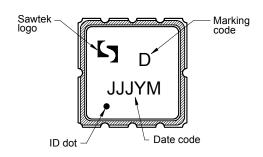
Part Number 855898 374 MHz SAW Filter

Matching Schematics

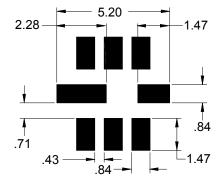


Marking

PCB Footprint

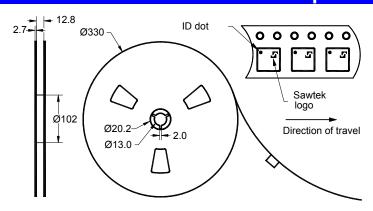


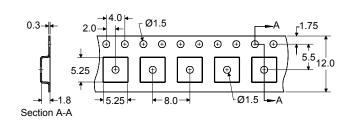
The date code consists of: JJJ = Julian day, Y = last digit of year, M = manufacturing site code



This footprint represents a recommendation only Dimensions shown are nominal in millimeters

Tape and Reel





Dimensions shown are nominal in millimeters Packaging quantity: 4000 units/reel



Part Number 855898 374 MHz SAW Filter

Data Sheet

Maximum Ratings						
Parameter	Symbol	Minimum	Maximum	Unit		
Operating Temperature Range	Т	-10	+80	°C		
Storage Temperature Range	T_{stg}	-40	+85	°C		

Warnings

Electrostatic Sensitive Device (ESD)



Avoid ultrasonic exposure

Links to Additional Technical Information

Qualification Flowchart PCB Layout Tips Soldering Profile

S-Parameters Reel and Packaging Label Other Technical Information

Sawtek's liability is limited only to the Surface Acoustic Wave (SAW) component(s) described in this data sheet. Sawtek does not accept any liability for applications, processes, circuits or assemblies which are implemented using any Sawtek component described in this data sheet.

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