

# Discontinued

#### High Performance SAW Filter

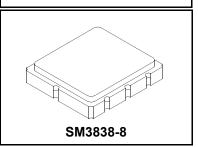
- 3.8 x 3.8 mm Surface-mount Package
- Complies with Directive 2002/95/EC (RoHS)

Suitable for Lead-free Soldering - Maximum Soldering Profile

#### Absolute Maximum Ratings Rating Value Units Maximum Incident Power in Passband +10 dBm VDC Maximum DC Voltage Between any Two Active Terminals 3 **Operable Temperature Range** -45 to +125 -40 to +85 Specification Temperature Range -40 to +95 Storage Temperature Range

## SF2431D

## 505 MHz **SAW Filter**

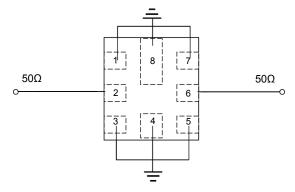


#### **Electrical Characteristics**

Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f <sub>C</sub>			505		MHz
Insertion Loss (500 to 510 MHz)	ILmin			2.2	3.2	dB
Amplitude Ripple (500 to 510 MHz)				0.8	1.5	
Attenuation (Reference level from 0dB)						
0 to 485 MHz			40	50		dB
555 to 800 MHz			45	50		
Case Style	3.8 x 3.8 mm Nominal Footprint					
Lid Symbolization, Y=year, WW=week, S=shift, Dot=pin 1 indicator	B41, <u>YWWS</u>					

#### **Electrical Connections**

Connection	Terminals
Input	2
Output	6
Case Ground	All others



°C °C

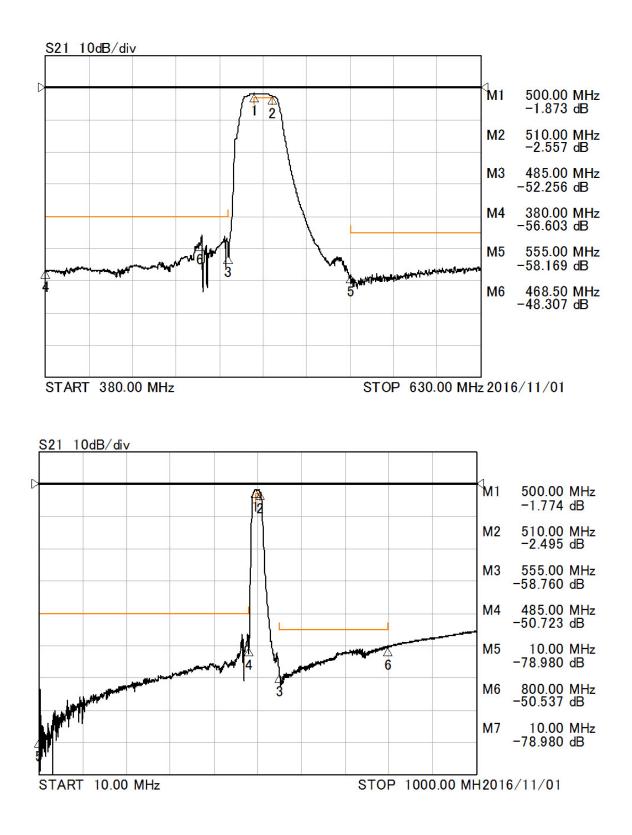
°C

260 °C for 10 sec

#### CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50  $\Omega$  and measured with 50  $\Omega$  network ana-1. lvzer.
- Unless noted otherwise, all frequency specifications are referenced to the 2. nominal center frequency, fc.
- 3. Rejection is measured as attenuation below the minimum IL point in the passband. Rejection in final user application is dependent on PCB layout and external impedance matching design. See Application Note No. 42 for details.
- "LRIP" or "L" after the part number indicates "low rate initial production" and "ENG" or "E" indicates "engineering prototypes." The design, manufacturing process, and specifications of this filter are 4.
- 5. Either Port 1 or Port 2 may be used for either input or output in the design.
- 6. However, impedances and impedance matching may vary between Port 1 and Port 2, so that the filter must always be installed in one direction per the circuit design.
- 7
- US and international patents may apply. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd. 8.

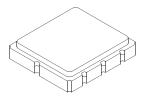
### **Frequency Characteristics**

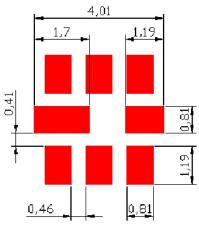


# SM3838-8 Case

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

**Case Dimensions** 





PCB Footprint

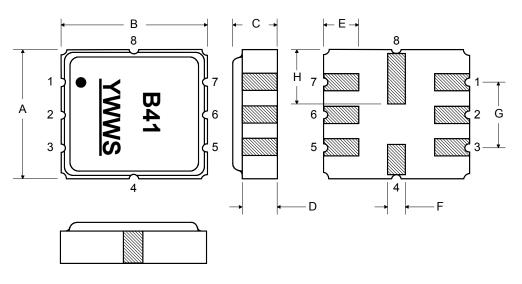
Dimension	mm			Inches			
	Min	Nom	Max	Min	Nom	Max	
Α	3.65	3.8	3.95	0.14	0.15	0.155	
В	3.65	3.8	3.95	0.14	0.15	0.155	
С	-	-	1.40	-	-	0.055	
D	-	1.10	-	-	0.043	-	
E	-	1.0	-	-	0.04	-	
F	-	0.6	-	-	0.024	-	
G	-	2.54	-	-	0.100	-	
Н	-	1.50	-	-	0.059	-	

#### **Case Materials**

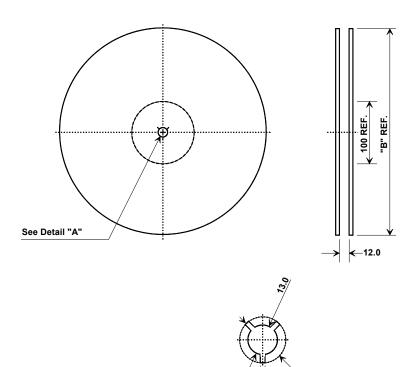
Materials				
Solder Pad Plating	0.3 to 1.0 $\mu m$ Gold over 1.27 to 8.89 $\mu m$ Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al <sub>2</sub> O <sub>3</sub> Ceramic			
Pb Free				

TOP VIEW

BOTTOM VIEW



## **Tape and Reel Specifications**

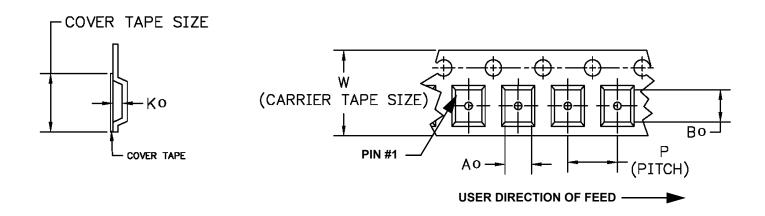


2.0

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

#### **COMPONENT ORIENTATION and DIMENSIONS**

Carrier Tape Dimensions				
Ao	4.25 mm			
Во	4.25 mm			
Ко	1.3 mm			
Pitch	8.0 mm			
W	12.0 mm			



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