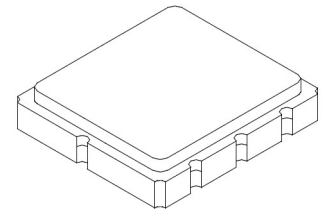


SF2477D

**430 MHz
SAW Filter**



SM3838-8

- High Performance SAW Filter
- 3.8 x 3.8 mm Surface-mount Package
- Complies with Directive 2002/95/EC (RoHS)
- Moisture Sensitivity Level: 1

Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Maximum DC Voltage Between any Two Active Terminals	5	VDC
Specification Temperature Range	-30 to +60	°C
Storage Temperature Range	-40 to +85	°C
Suitable for Lead-free Soldering - Maximum Soldering Profile	260 °C for 20 - 40 sec	

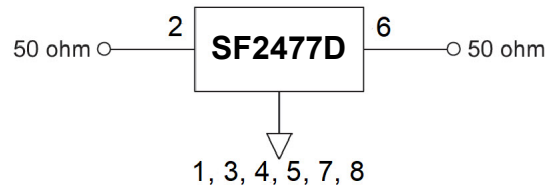
Electrical Characteristics

Characteristic	Sym	Notes	Min	Typ	Max	Units
Center Frequency	f_c			430		MHz
Insertion Loss 420 to 440 MHz	ILmin			3.3	4.2	dB
Amplitude Ripple 420 to 440 MHz				1.1	2.4	
Return Loss 420 to 440 MHz			7	10		
Attenuation (Reference level from 0 dB)						dB
0.3 to 300 MHz			30	53		
300 to 380 MHz			24	48		
380 to 401 MHz			15	41		
475.825 to 524.825 MHz			12	28		
559.65 to 579.68 MHz			28	54		
669.3 to 689.3 MHz			24	49		
689.3 to 1000 MHz			26	46		
Temperature Coefficient of Frequency				-36		ppm/°C

Case Style	3.8 x 3.8 mm Nominal Footprint
Lid Symbolization, Y=year, WW=week, S=shift, Dot=pin 1 indicator	B56, <u>Y</u> WWS

Electrical Connections

Connection	Terminals
Input	2
Output	6
Case Ground	All others



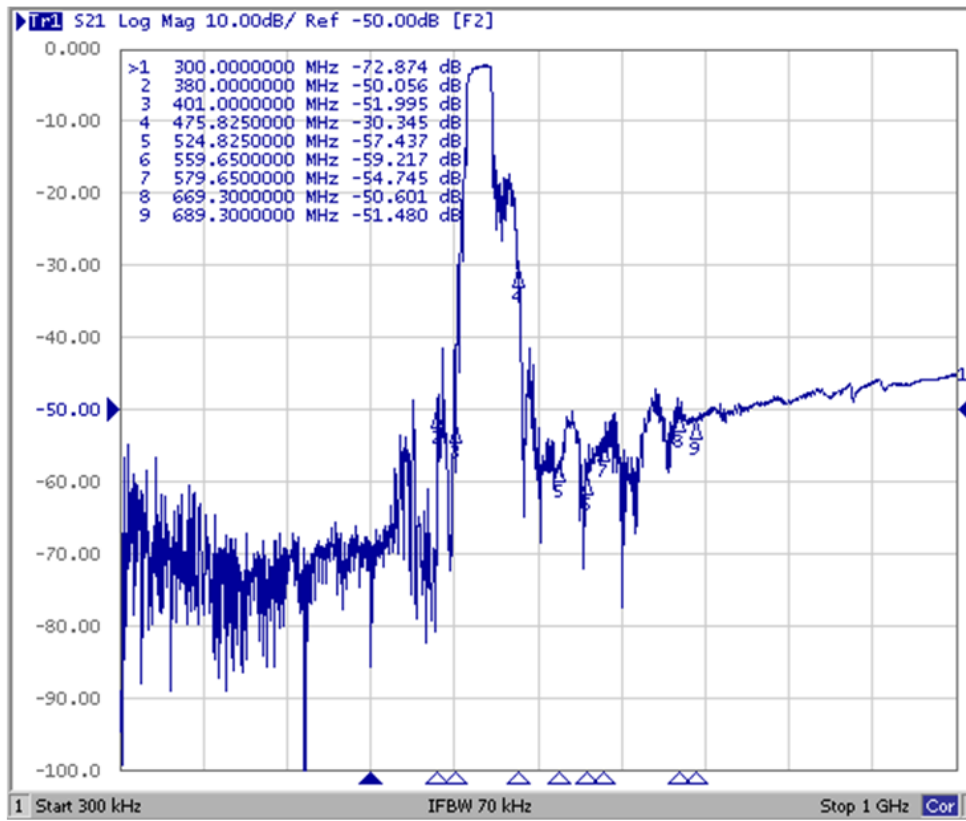
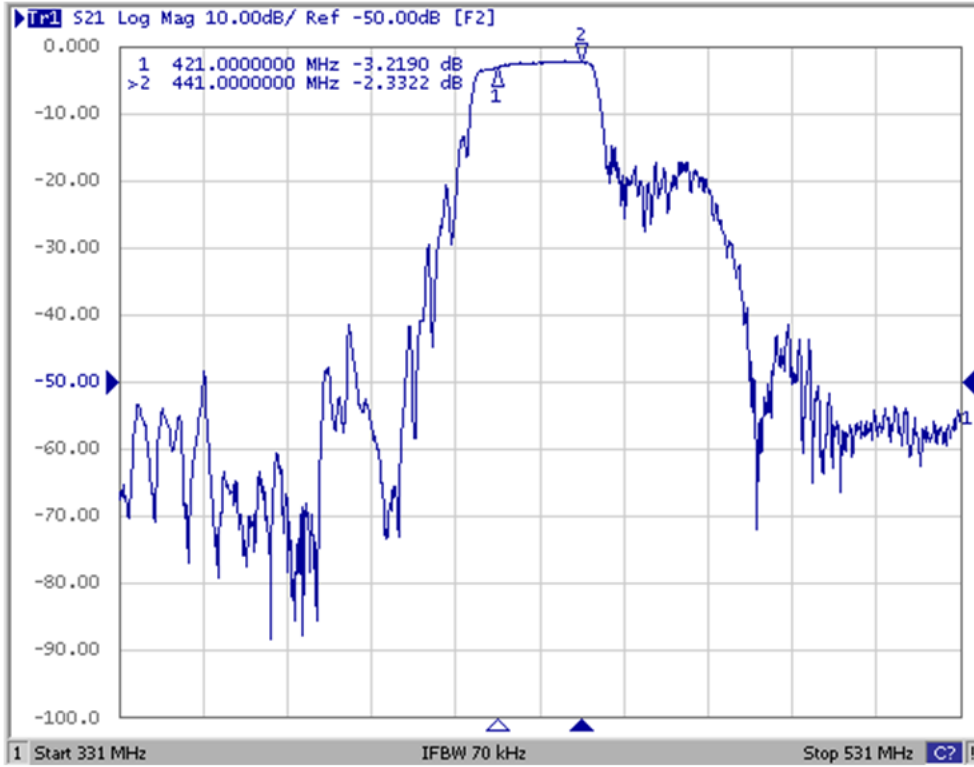
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.



NOTES:

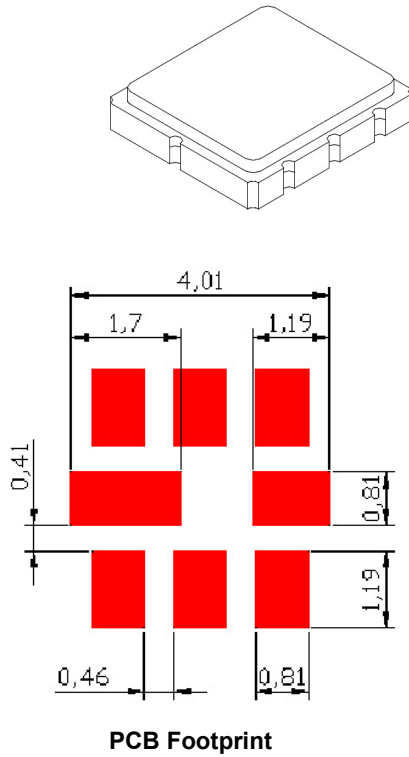
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

Frequency Characteristics



SM3838-8 Case

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

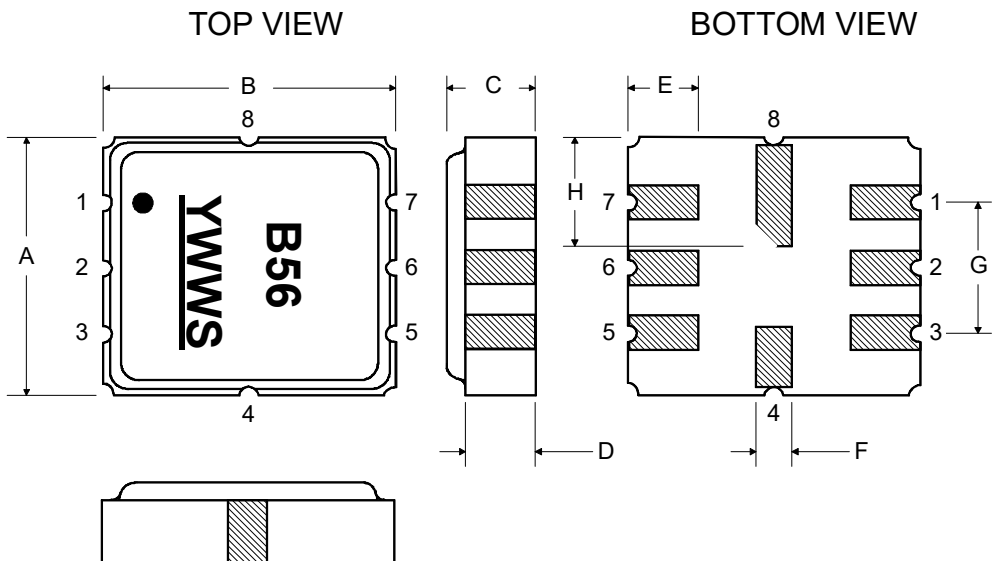


Case Dimensions

Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	3.65	3.8	3.95	0.14	0.15	0.155
B	3.65	3.8	3.95	0.14	0.15	0.155
C	-	-	1.40	-	-	0.055
D	-	1.10	-	-	0.043	-
E	-	1.0	-	-	0.04	-
F	-	0.6	-	-	0.024	-
G	-	2.54	-	-	0.100	-
H	-	1.50	-	-	0.059	-

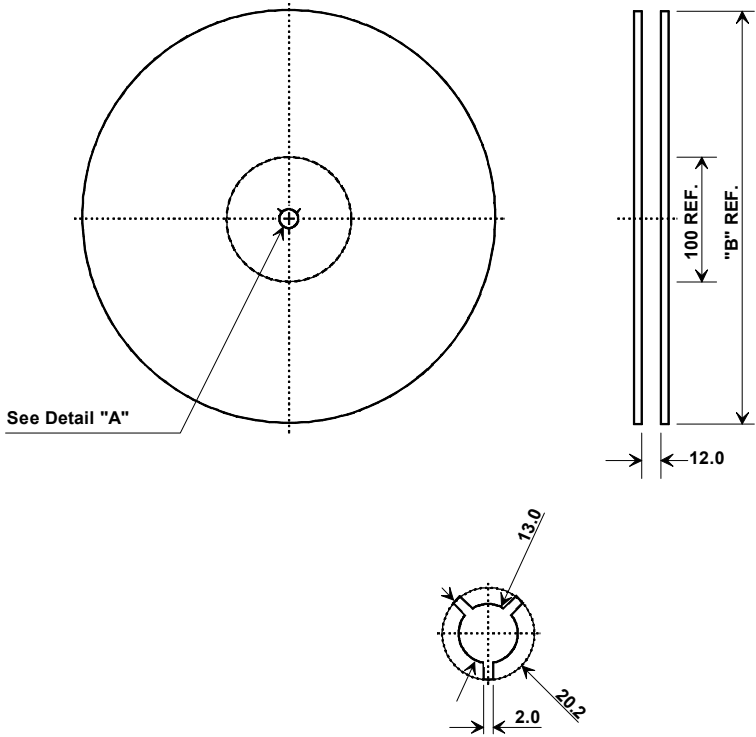
Case Materials

Materials	
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel
Lid Plating	2.0 to 3.0 μm Nickel
Body	Al_2O_3 Ceramic



Tape and Reel Specifications

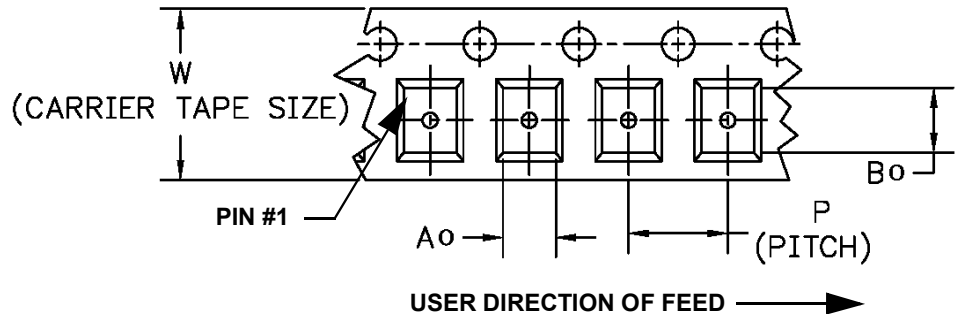
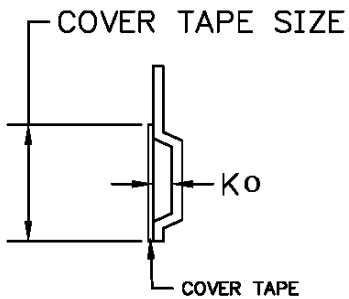
Tape and Reel Standard per ANSI/EIA481



"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
Bo	4.25 mm
Ko	1.3 mm
Pitch	8.0 mm
W	12.0 mm



Recommended Reflow Profile

1. Preheating shall be fixed at 150~180° for 60~90 seconds.
2. Ascending time to preheating temperature 150° shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C peak (10 seconds.)
4. Time: 5 times maximum

