

- *Hermetically sealed Surface Mount package*
- *Complies with Directive 2002/95/EC (RoHS)*

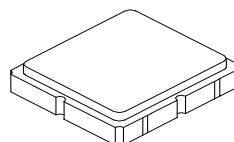


Absolute Maximum Ratings

Rating	Value	Units
Maximum Input Power	+10	dBm
DC Voltage	3	VDC
Operable Temperature Range	-45 to +125	°C
Specification Temperature	-40 to +85	°C
Storage Temperature	-40 to +85	°C

SF2421D

485 MHz SAW Filter



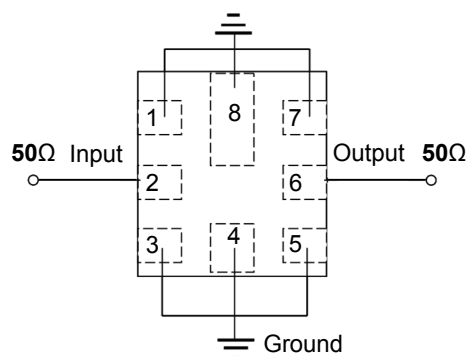
SM3838-8 Case

Electrical Characteristics

Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
Nominal Operating Frequency	f _C			485		MHz
Insertion Loss 480 to 490 MHz				2.6	4.0	dB
Amplitude Ripple 480 to 490 MHz				.6	2.0	dB
Attenuation (Reference level from 0dB)						
385 to 445 MHz			47	63		dB
525 to 585 MHz			36	54		dB
Impedance at Fc: Input Z _{IN} = R _{IN} // C _{IN}	50 // 0pF					Ω
Output Z _{OUT} = R _{OUT} // C _{OUT}	50 // 0pF					
Footprint Size: 3.8 X 3.8			SM3838-8			
Lid Symbolization (Y=Year, WW=week, S=shift)		B36//YWWS				

Electrical Connections

Connection	Terminals
Input	2
Output	6
Ground	All Others



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

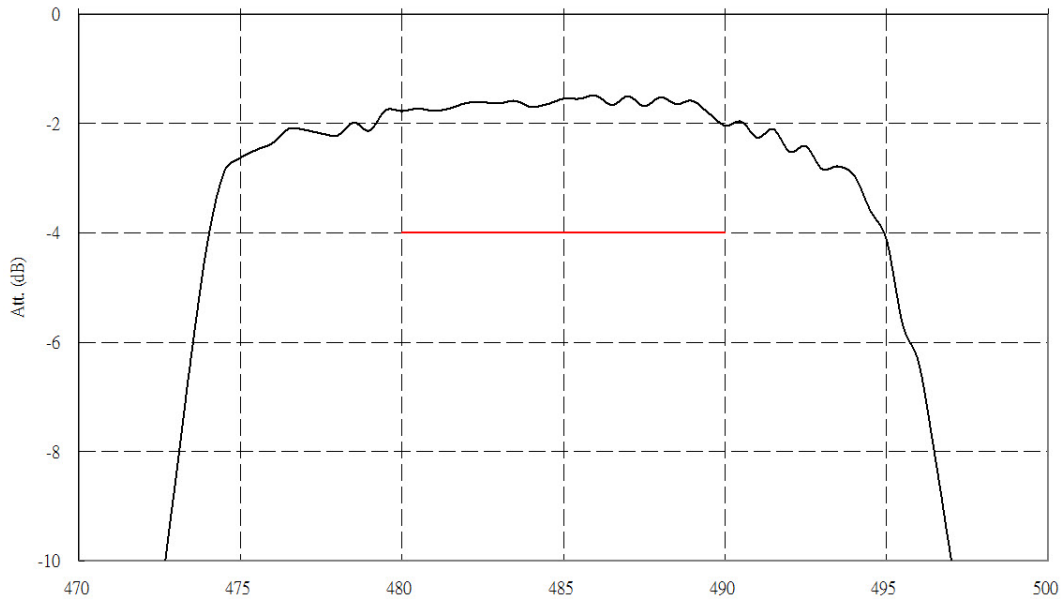


NOTES:

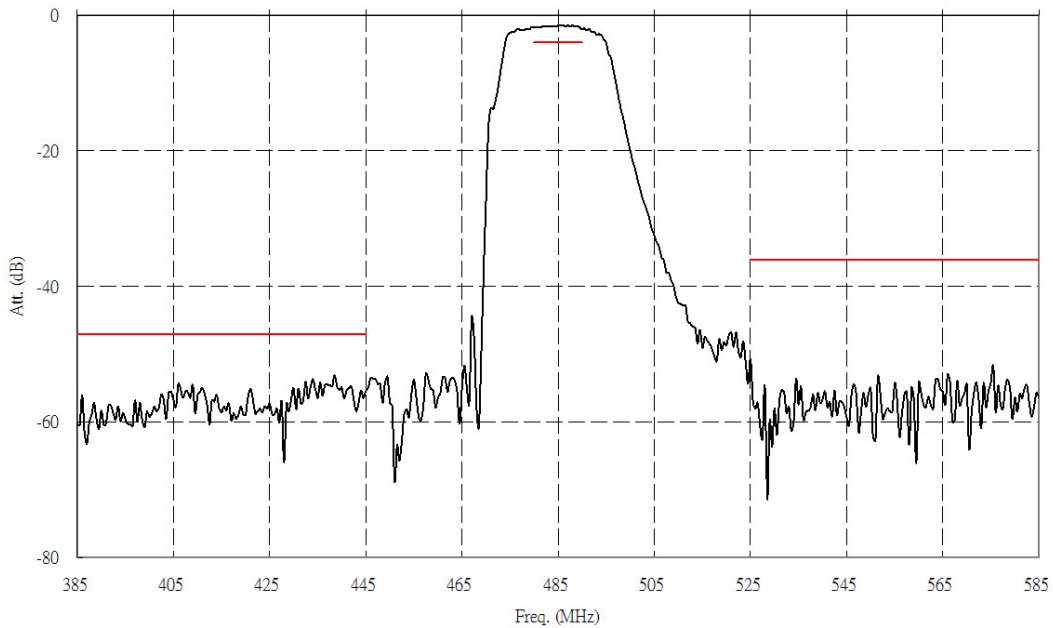
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.

Frequency Characteristics

S21 Response: Center 485 MHz, 30 MHz span



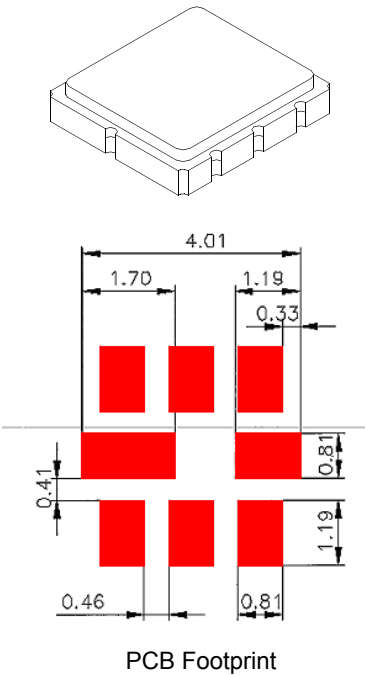
S21 Response: Center 485 MHz, 200 MHz span



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	3.65	3.8	3.95		0.15	
B	3.65	3.8	3.95		0.15	
C			1.40		0.06	
D		1.0			0.04	
E		1.0			0.04	
F		0.6			0.02	
G	-	2.54	-		0.100	
H		1.5			0.06	

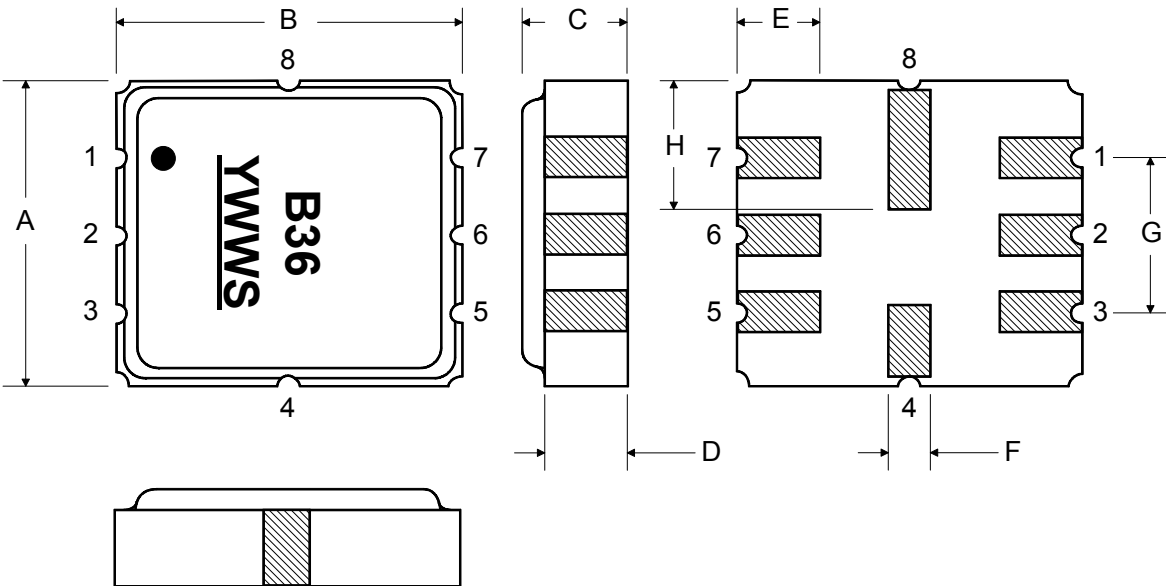
Electrical Connections		
	Connection	Terminals
Port 1	Input	2
Port 2	Output	6
	Ground	All Others

Dot Indicates Pin 1

Materials	
Solder Pad Termination	Au plating 30 - 60 μ inches (76.2-152 μ M) over 80-200 μ inches (203-508 μ M) Ni.
Lid	Fe-Ni-Co Alloy Electroless Nickel Plate (8-11% Phosphorus) 100-200 μ inches Thick
Body	Al ₂ O ₃ Ceramic
Pb Free	

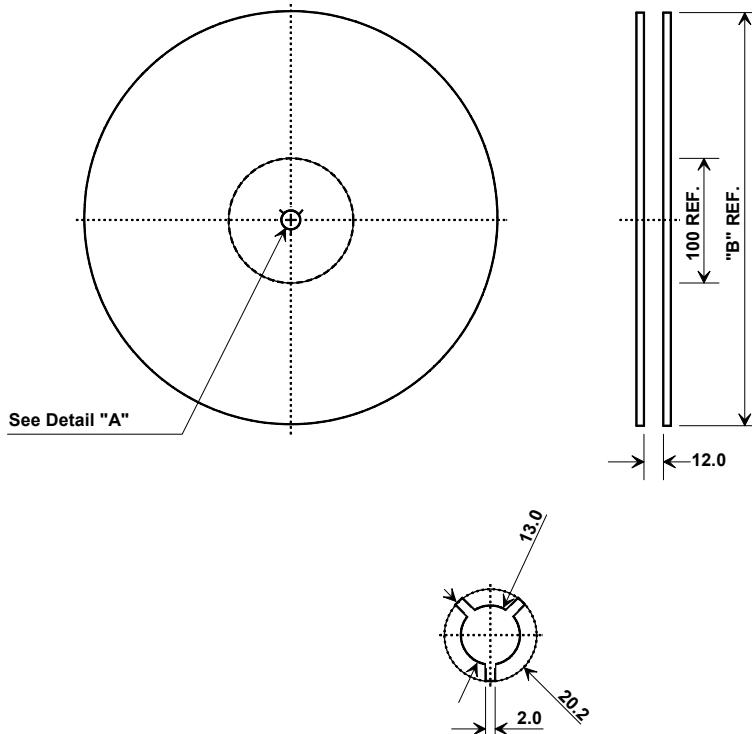
TOP VIEW

BOTTOM VIEW



Tape and Reel Specifications

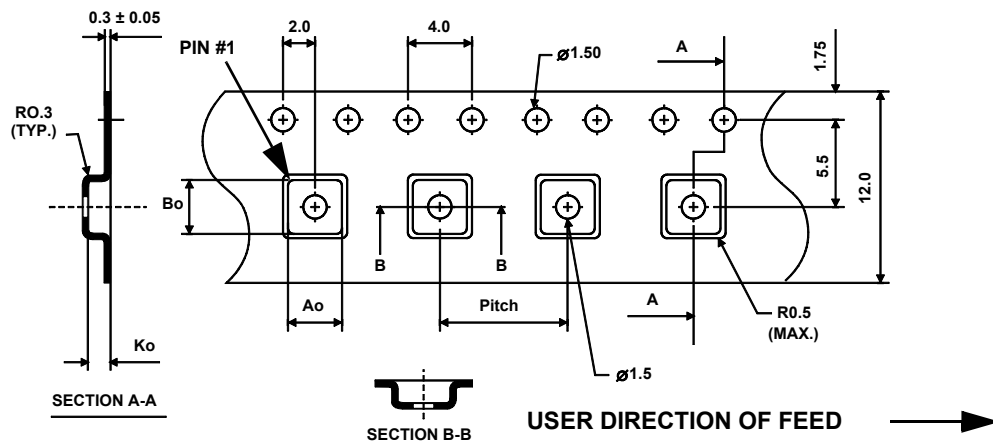
Tape and Reel Standard per ANSI/EIA-481



"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	1.30 mm
Pitch	8.0 mm
W	12.0 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.



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