PRELIMINARY



SF2424D

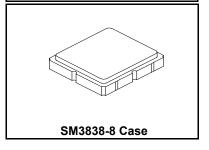
- · Hermetically sealed Surface Mount package
- Complies with Directive 2002/95/EC (RoHS)



Absolute Maximum Ratings

Rating	Value	Units
Maximum Input Power	10	dBm
DC Voltage	10	VDC
Operating Temperature	-40 to +85	°C
Storage Temperature	-40 to +85	°C

505 MHz **SAW Filter**

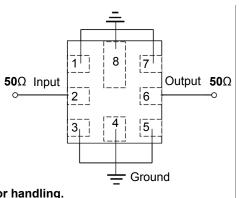


Electrical Characteristics

Characteristic		Sym	Notes	Minimum	Typical	Maximum	Units
Center Frequency		f _C			505		MHz
Insertion Loss	500 - 508 MHz	IL			2.6	4.1	dB
	500 - 510 MHz				2.8	4.1	QD.
Amplitude Ripple	500 - 508 MHz				0.5	2.5	dB
500 - 5					0.6	2.5	uБ
Attenuation (Reference level from 0dB)							
404 to 463.2 MHz				42	50		dB
544 to 604 MHz				42	48		
Temperature Coefficient of Frequency					-36		ppm/k
Terminating Source Impedance (single) Z _S					50	•	Ω
Terminating Load Impedance (single) Z_L					50		12
Footprint Size: 3.8 X 3.8		1	l .	SN	13838-8		I
Lid Symbolization (Y=Year, WW=week, S=shift)		B38//Y\	WWS				

Electrical Connections

Connection	Terminals
Input	2
Output	6
Ground	All Others





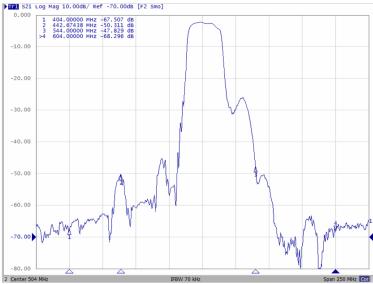
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

All specifications apply over the operating temperature range with filter soldered to the specified demonstration board unless noted otherwise. Ultimate rejection is dependent on PCB layout.

- 2. 3. 4. 5. 6.
- Specifications subject to change without notice.
 Electrostatic Sensitive Device. Observe precautions for handling.
 US and international patents may apply.
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Frequency Characteristics

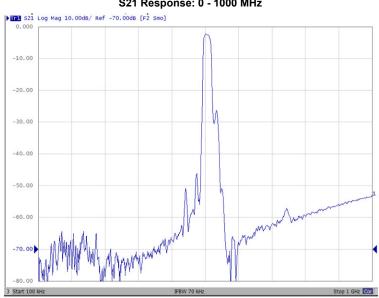
S21 Response: Center 504 MHz, Span 250 MHz



S21 Response: Span 40 MHz

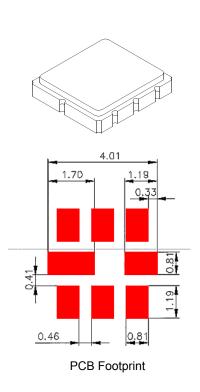


S21 Response: 0 - 1000 MHz



SM3838-8 Case

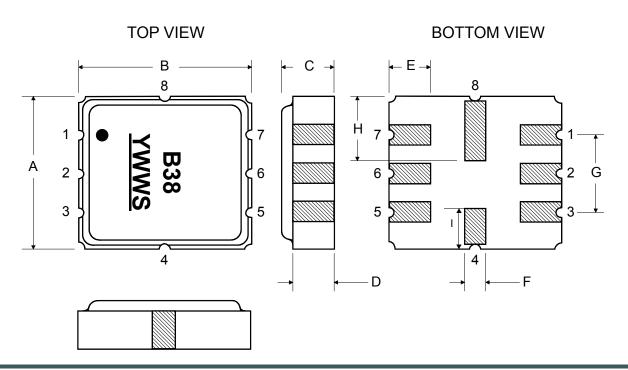
8-Terminal Ceramic Surface-Mount Case 3.8 X 3.8 mm Nominal Footprint



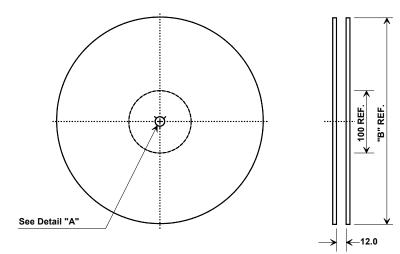
Case Dimensions						
Dimension	mm			Inches		
Dilliension	Min	Nom	Max	Min	Nom	Max
Α	3.65	3.80	3.95	0.143	0.149	0.155
В	3.65	3.80	3.95	0.143	0.149	0.155
С	-	-	1.40	-	1	0.055
D	0.95	1.10	1.25	0.037	0.043	0.049
E	0.90	1.00	1.10	0.035	0.040	0.043
F	0.50	0.60	0.70	0.020	0.024	0.028
G	2.39	2.54	2.69	0.090	0.100	0.110
Н	1.40	1.75	2.05	0.055	0.069	0.080
İ	0.90	1.00	1.10	0.035	0.040	0.043

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

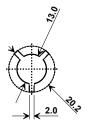
Materials				
Solder Pad Ter- mination	Au plating 30 - 60 μInches (76.2-152 μM) over 80-200 μInches (203-508 μM) Ni.			
Lid	Fe-Ni-Co Alloy Electroless Nickel Plate (8-11% Phosphorus) 100-200 µInches Thick			
Body	Al ₂ O ₃ Ceramic			
Pb Free				



Tape and Reel Specifications

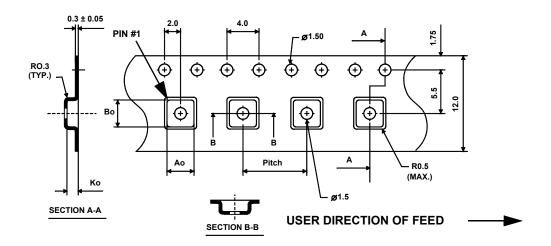


	B " nal Size	Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	3000



COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions			
Ao	4.25 mm		
Во	4.25 mm		
Ко	1.30 mm		
Pitch	8.0 mm		
W	12.0 mm		



Reflow Profile

