



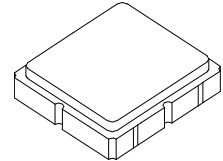
AEC-Q200
This component was always
RoHS compliant from the first
date of manufacture.

- **No External Matching Required**
- **3.8 x 3.8 x 1.4 mm Surface-mount Package**
- **Complies with Directive 2002/95/EC (RoHS)**



SF2188D

**340 MHz
SAW Filter**



SM3838-8

Absolute Maximum Ratings

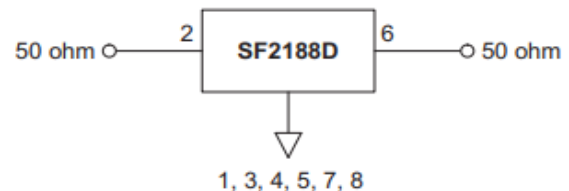
Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Maximum DC Voltage between any Two Terminals	3	VDC
Storage Temperature Range	-40 to +85	°C
Suitable for Lead-free Soldering - Maximum Soldering Profile	260°C for 30 s	

Electrical Characteristics

Characteristic	Sym	Notes	Min	Typ	Max	Units
Nominal Center Frequency	F_C	1	339	340	341	MHz
Insertion Loss	IL	1		2.0	3.0	dB
1 dB Bandwidth		1		8	11	MHz
Passband Ripple, 336 to 344 MHz		1		0.4	1.0	dB _{P-P}
Absolute Attenuation (referenced from 0 dB)						
10 to 300 MHz		2	50	54		dB
300 to 320 MHz		2	40	47		dB
375 to 800 MHz		2	40	45		dB
Frequency Temperature Coefficient				-36		ppm/°C
Source Impedance				50		ohm
Load Impedance				50		ohm
Operating Temperature Range			-40		+85	°C
Case Style			SM3838-8 3.8 x 3.8 mm Nominal Footprint			
Lid Symbolization (Y=year, WW=week, S=shift)			876, YWWS			

Electrical Connections

Connection	Terminals
Port 1	2
Port 2	6
Case Ground	All others

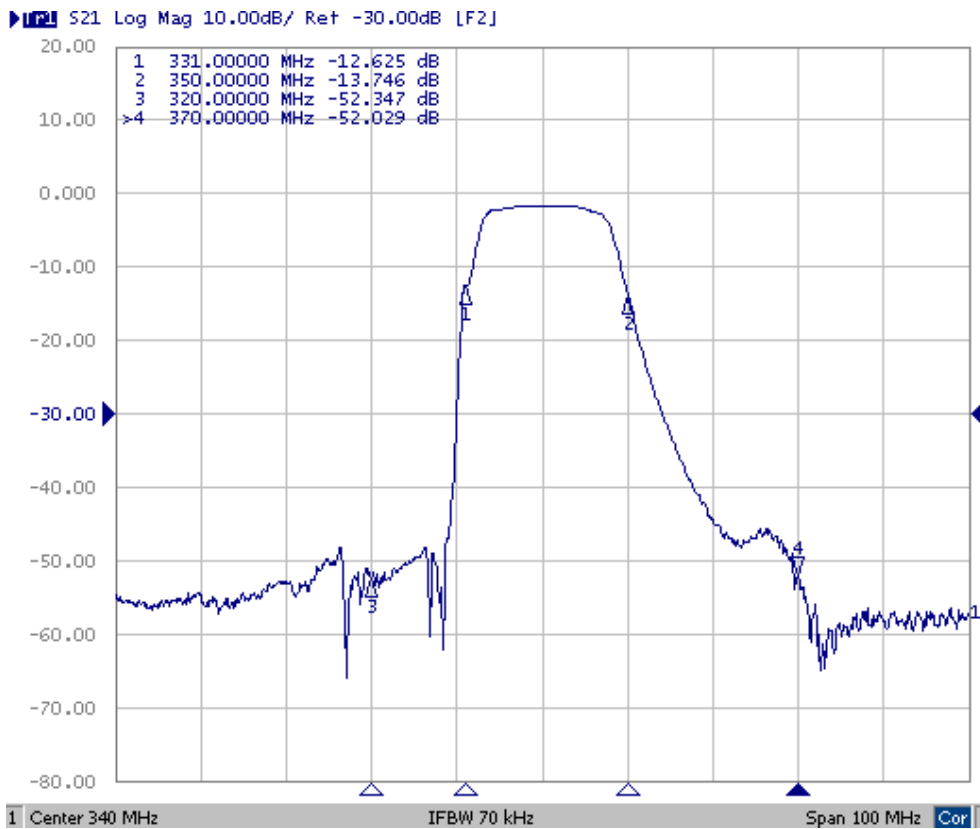
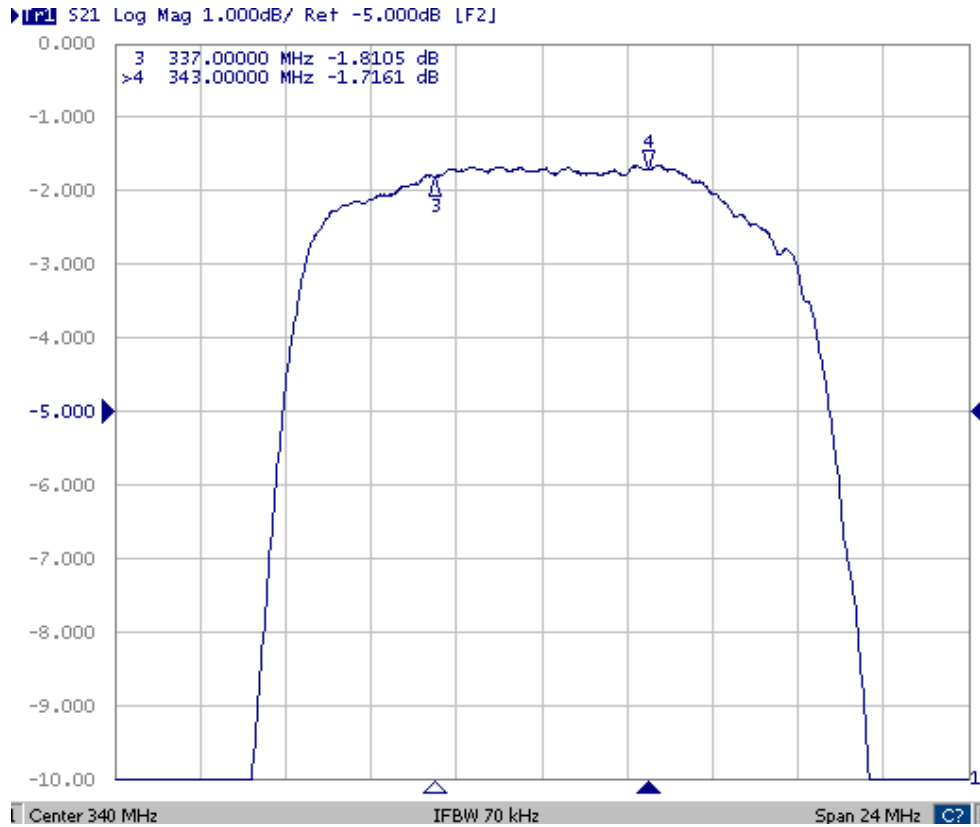


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

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

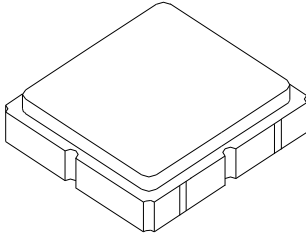
SF2188D Frequency Response



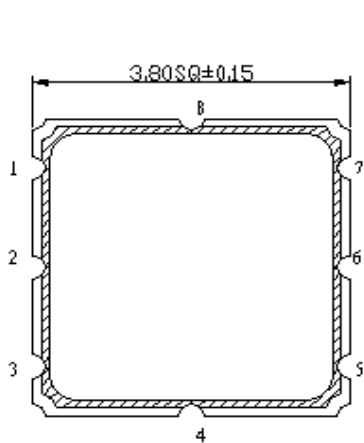
SM3838-8 Case

8-Terminal Ceramic Surface-Mount Case

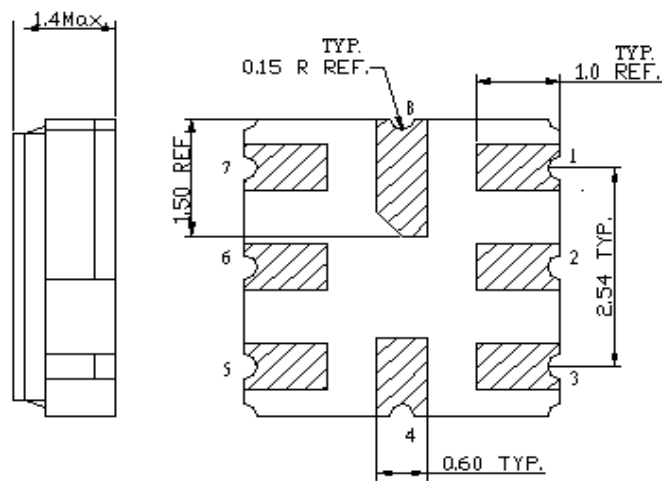
3.8 X 3.8 mm Nominal Footprint



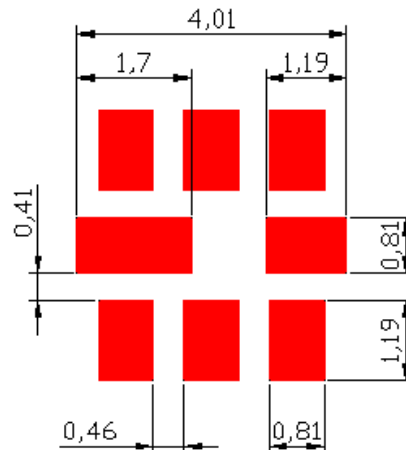
Top View



Bottom View



PCB Footprint



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.

