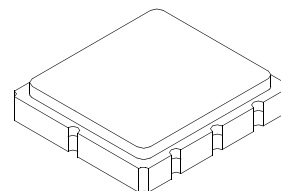


**SF2725C**

**268.11 MHz  
SAW Filter**



**SM5050-8**

**MAXIMUM RATING:**

1. Input Power Level: 20dB<sub>m</sub>
2. DC voltage: 5 V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: (MSL): Level 1

**ELECTRICAL CHARACTERISTICS:**

Item	Unit	Min.	Type.	Max.
Center Frequency	MHz	-	268.11	-
Insertion Loss 262 ~ 262.425 MHz	dB	-	1.83	3
Insertion Loss 269 ~ 274.225 MHz	dB	-	2	3
Amplitude Ripple 261 ~ 275.22 MHz	dB	-	0.47	1.00
VSWR 261 ~ 275.22 MHz	-	-	1.60	2.00
Attenuation (reference from 0dB)				
290.0825 ~ 303.5 MHz	dB	14	20	-
377.3 ~ 389.525 MHz	dB	45	51	-
524 ~ 550 MHz	dB	40	50	-
786 ~ 825 MHz	dB	35	42	-
Source impedance Z <sub>s</sub>	Ω	-	50	-
Load impedance Z <sub>L</sub>	Ω	-	50	-

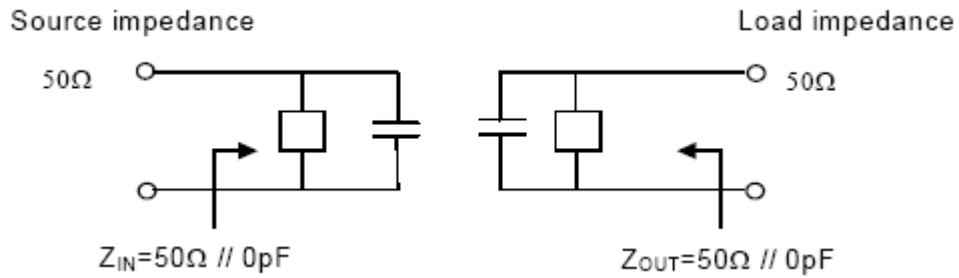


**CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.**

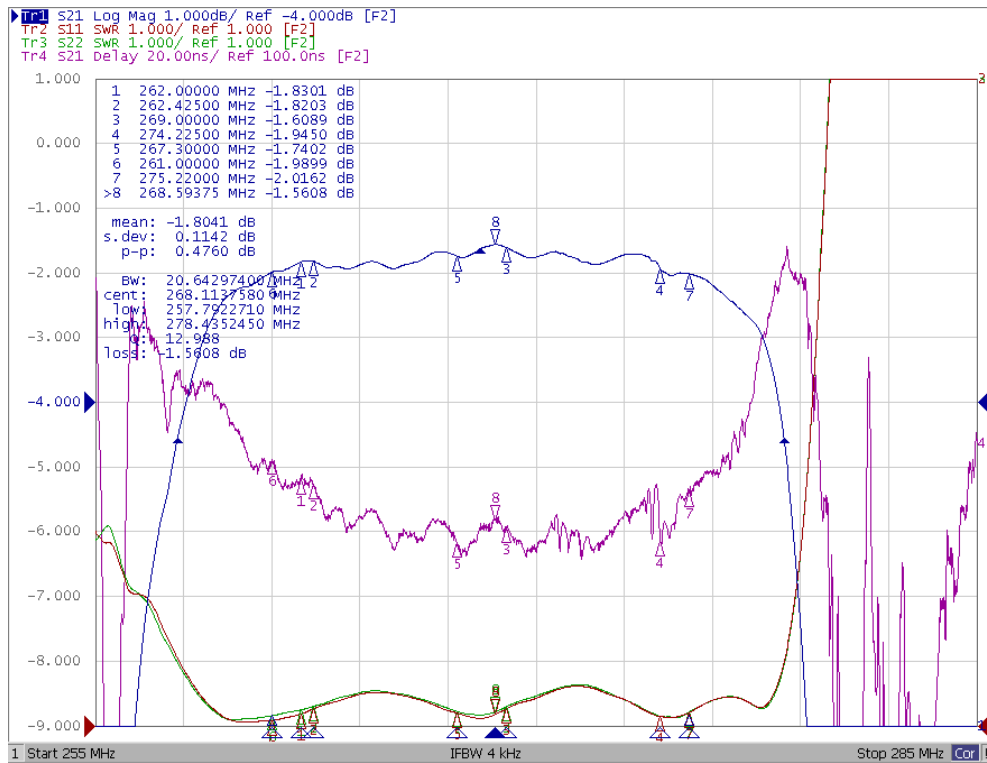
**NOTES:**

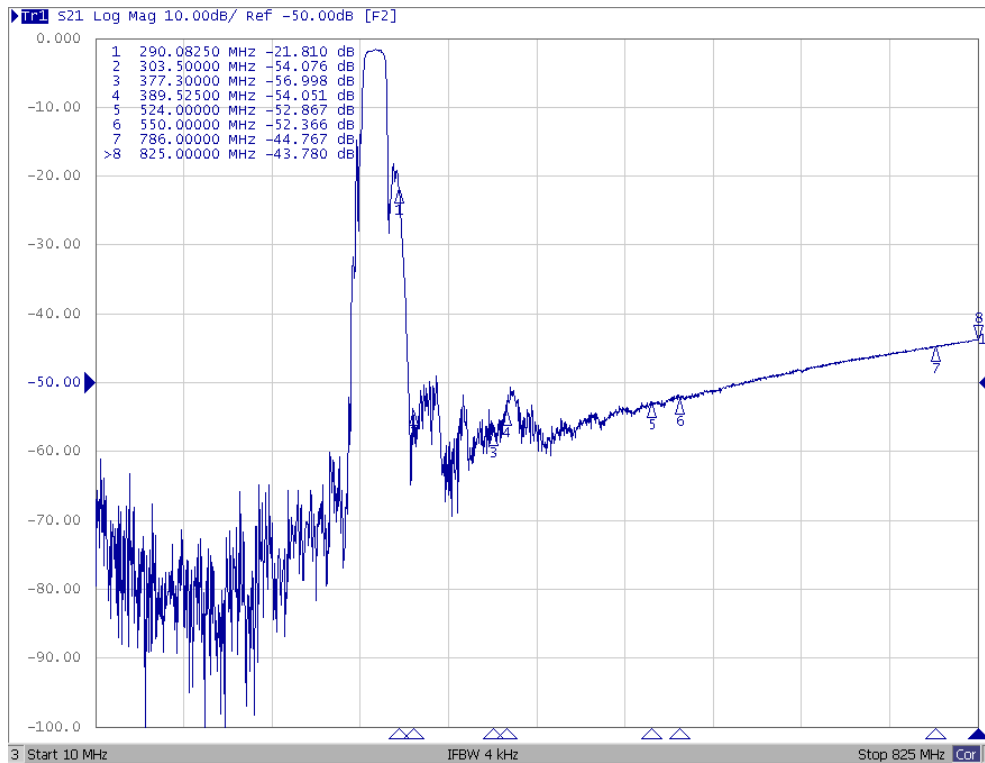
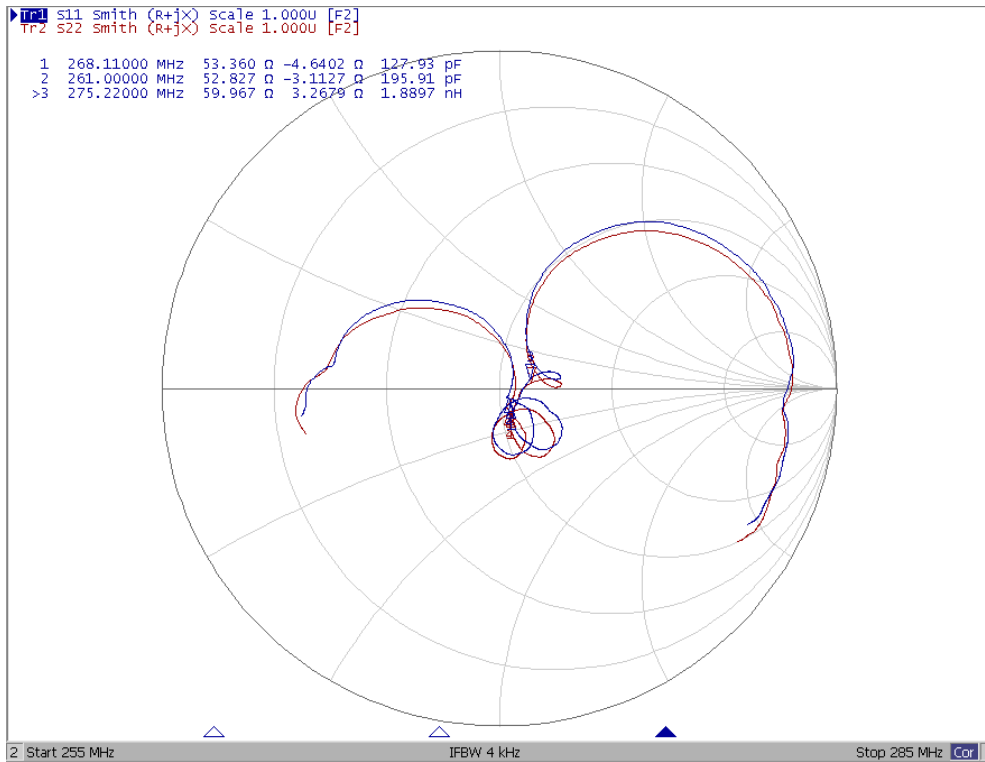
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

## MEASUREMENT CIRCUIT

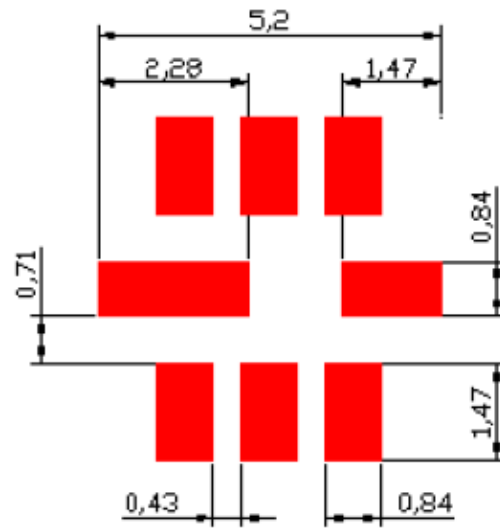


## FREQUENCY CHARACTERISTICS:

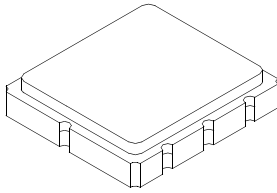




**PCB FOOTPRINT:**

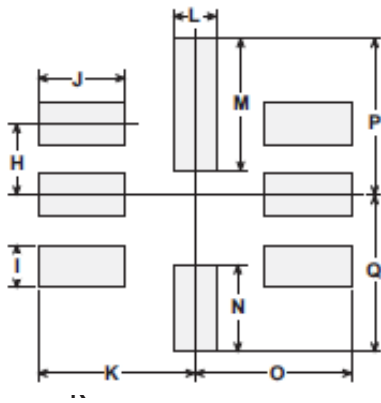


# SM5050-8 Surface-Mount 8-Terminal Ceramic Case 5.0 X 5.0 mm Nominal Footprint



### Case Dimensions

Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	4.80	5.00	5.20	0.189	0.197	0.205
B	4.80	5.00	5.20	0.189	0.197	0.205
C	1.30	1.50	1.70	0.050	0.060	0.067
D	1.98	2.08	2.18	0.078	0.082	0.086
E	1.07	1.17	1.27	0.042	0.046	0.050
F	0.50	0.64	0.70	0.020	0.025	0.028
G	2.39	2.54	2.69	0.094	0.100	0.106
H		1.27			0.050	
I		0.76			0.030	
J		1.55			0.061	
K		2.79			0.110	
L		0.76			0.030	
M		2.36			0.093	
N		1.55			0.061	
O		2.79			0.110	
P		2.79			0.110	
Q		2.79			0.110	

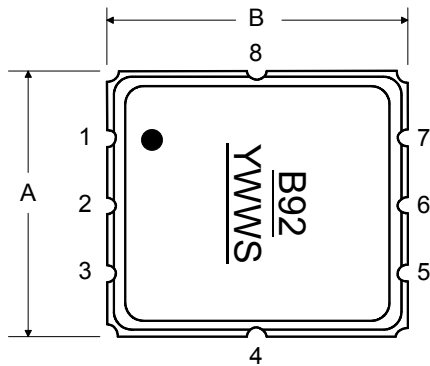


PCB Footprint

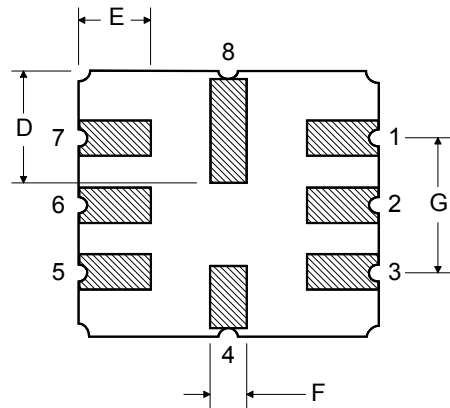
### Case Materials

Materials	
Solder Pad Plating	0.3 to 1.0 $\mu\text{m}$ Gold over 1.27 to 8.89 $\mu\text{m}$ Nickel
Lid Plating	2.0 to 3.0 $\mu\text{m}$ Nickel
Body	$\text{Al}_2\text{O}_3$ Ceramic

TOP VIEW



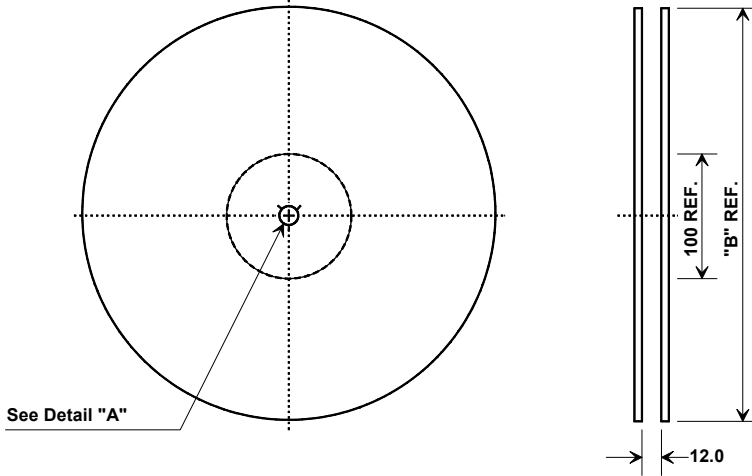
BOTTOM VIEW



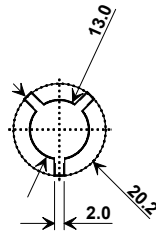
Y = Year, WW = Week, S = Shift

## Tape and Reel Specifications

Tape and Reel Standard per ANSI/EIA-481

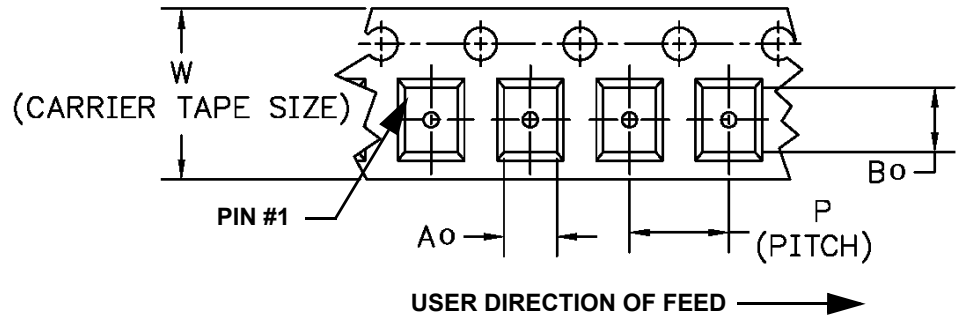
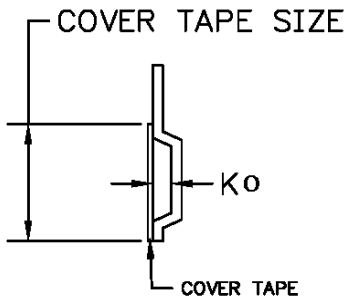


"B" Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	3000



### COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions	
Ao	5.3 mm
Bo	5.3 mm
Ko	2.0 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 (20~40sec).
4. Time: 2 times.

