

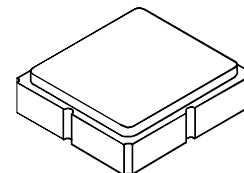
- **Low-loss UHF SAW Filter**
- **3.0 x 3.0 mm Surface-mount Package**

**Maximum Rating**

Rating	Value	Units
DC Voltage on any Non-ground Terminal	3	V
Operable Temperature Range	-45 to +125	°C
Specification Temperature Range	0 to +50	°C
Storage Temperature Range	-40 to +85	°C
Moisture Sensitivity Level	1	MSL

**SF2472E**

**869 MHz  
SAW Filter**

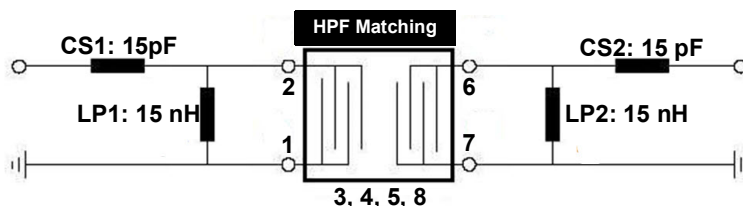


**SM3030-8**

Characteristic	Sym	Notes	Min	Typ	Max	Units
Center Frequency	$f_C$			869		MHz
Maximum Insertion Loss, 698 to 862 MHz (0 to +25°C) (+25 to +50°C)  880 to 960 MHz 1710 to 1880 MHz	$IL_{MAX}$			1.9	2.5	dB
				1.9	2.9	
				1.0	2.5	
				1.7	2.5	
Attenuation, 0 dB Reference: 868 to 870 MHz			20	24		dB
Temperature Coefficient of frequency				-36		ppm/k
Source Impedance $Z_S$				50		ohm
Load Impedance $Z_L$				50		

Case Style	SM3030-8 3.0 x 3.0 mm Nominal Footprint					
Lid Symbolization, Y=year, WW=week, S=shift, dot=pin 1 indicator	B7_YWWS					
Standard Reel Quantity	Reel Size 7 inch	500 Pieces/Reel				
	Reel Size 13 inch	3000 Pieces/Reel				

Electrical Connections	
Input	2
Output	6
All Others	1, 3, 4, 5, 7, 8

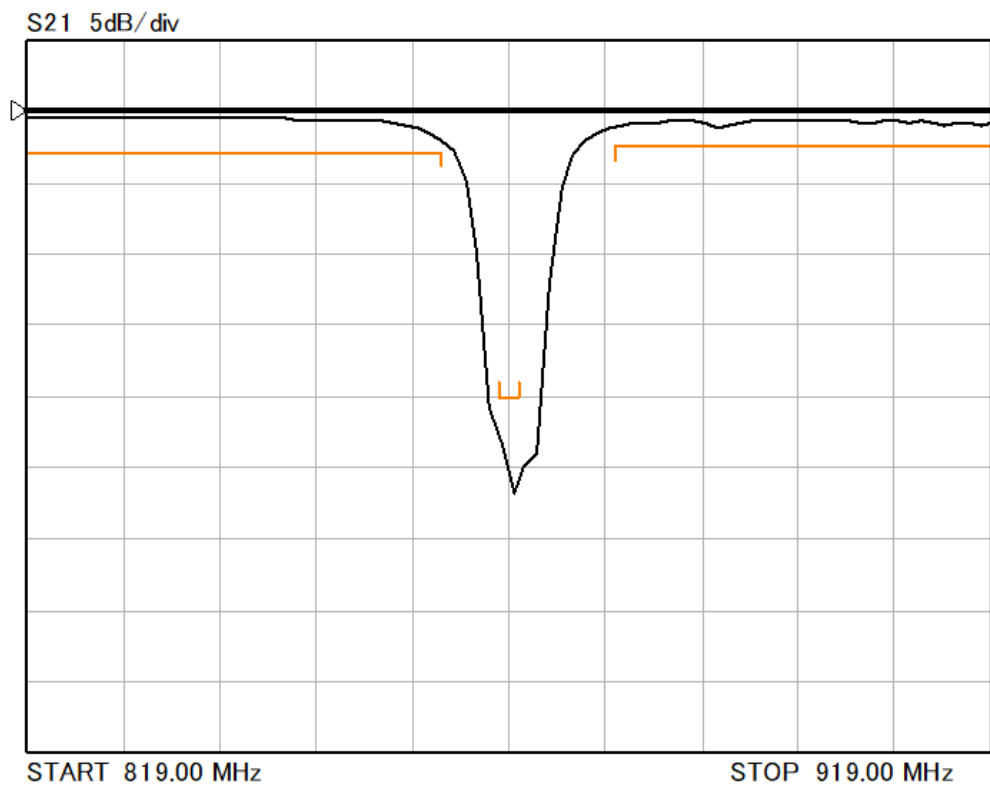


**NOTES:**

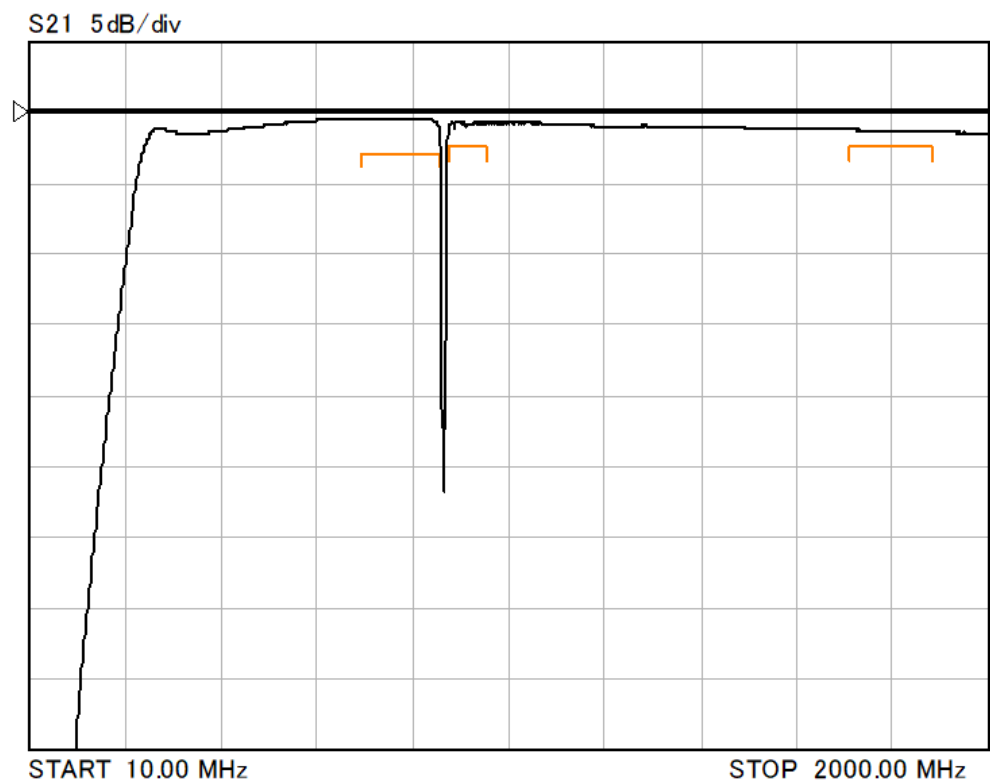
1. US and international patents may apply.
2. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.
3. Electrostatic Sensitive Device. Observe precautions for handling.

## Transfer Function

Span: 100 MHz

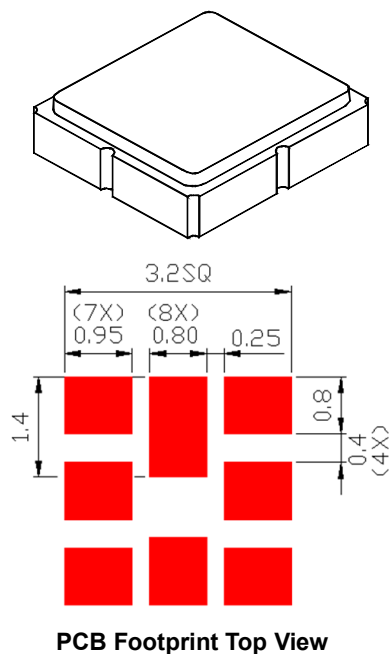


Span: 2000 MHz



## 8-Terminal Ceramic Surface-Mount Case

### 3.0 x 3.0 mm Nominal Footprint



Case and PCB Footprint Dimensions

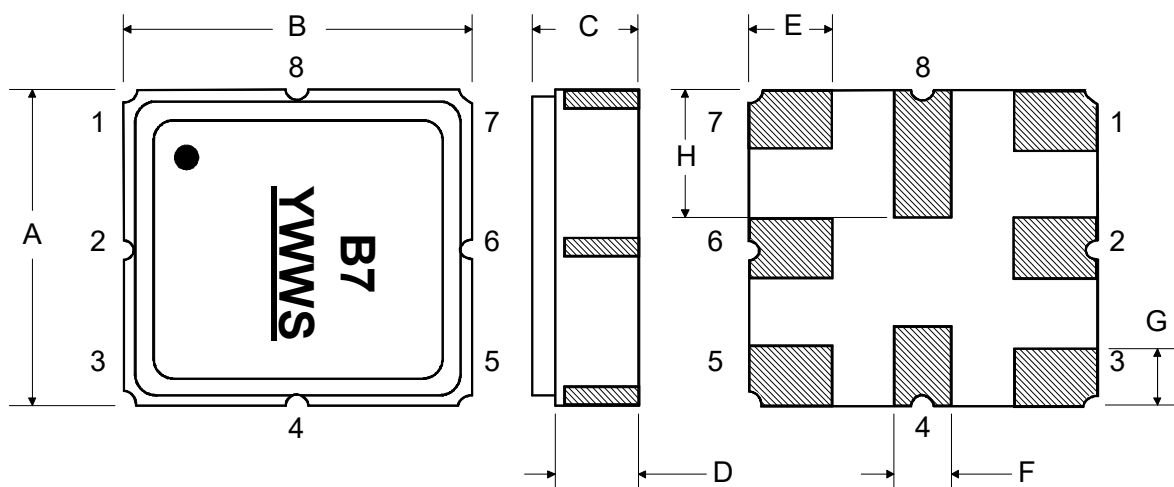
Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	2.90	3.00	3.10	0.114	0.118	0.122
B	2.90	3.00	3.10	0.114	0.118	0.122
C	0.90	1.00	1.10	0.035	0.039	0.043
D	0.79	0.92	1.05	0.031	0.036	0.041
E	0.62	0.75	0.88	0.024	0.029	0.034
F	0.47	0.60	0.73	0.018	0.023	0.028
G	0.50	0.60	0.70	0.019	0.023	0.027
H	1.10	1.20	1.30	0.043	0.047	0.051

Case Materials

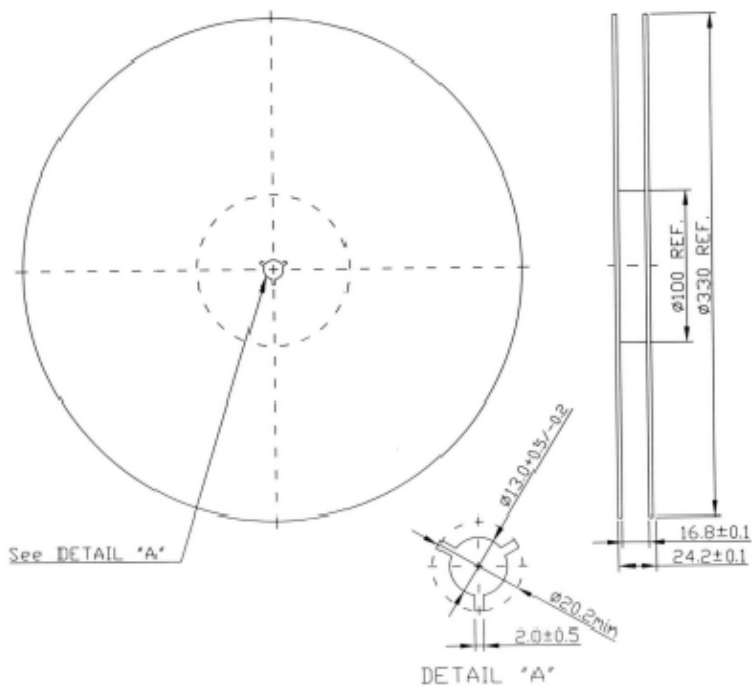
Materials	
Solder Pad Plating	0.3 to 1.0 µm Gold over 1.27 to 8.89 µm Nickel
Lid Plating	2.0 to 3.0 µm Nickel
Body	Al <sub>2</sub> O <sub>3</sub> Ceramic
Pb Free	

TOP VIEW

BOTTOM VIEW



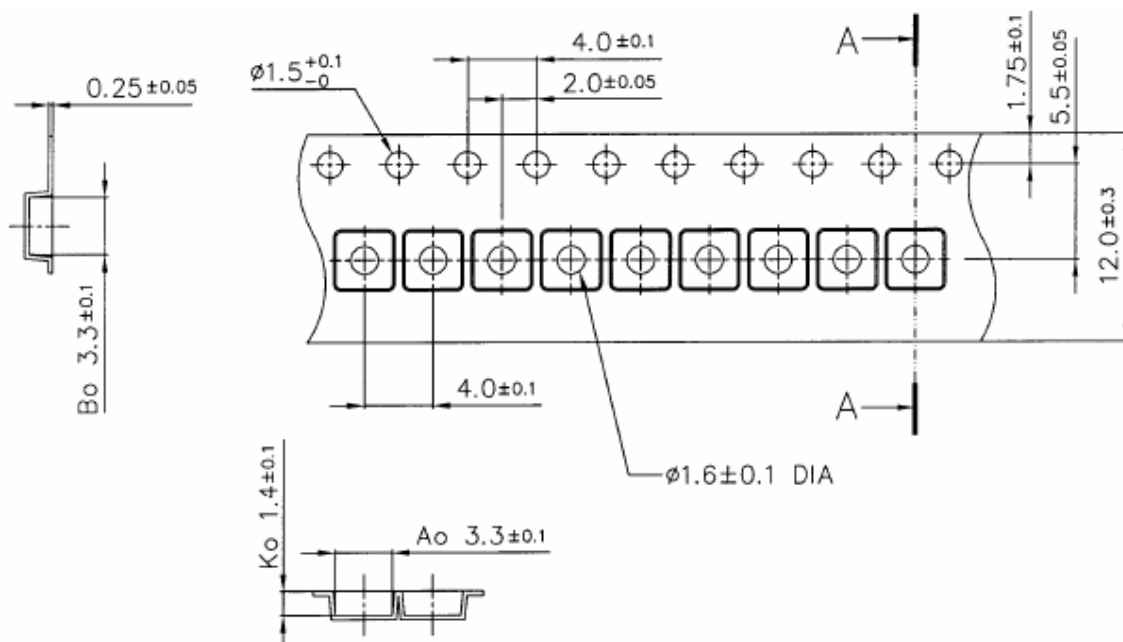
## Tape and Reel Specifications



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

Carrier Tape Dimensions	
Ao	3.35 mm
Bo	3.35 mm
Ko	1.4 mm
Pitch	8.0 mm
W	12.0 mm

### COMPONENT ORIENTATION and DIMENSIONS



## 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.

