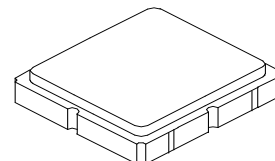


**SF2446E**

**435 MHz  
SAW Filter**



**SM3030-6**

**Maximum Rating**

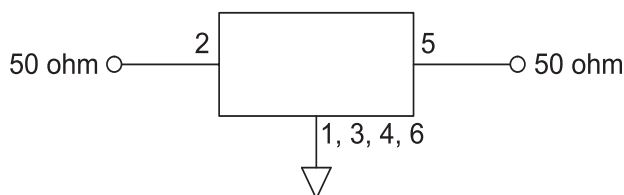
Rating	Value	Units
Input Power Level	10	dB <sub>m</sub>
DC Voltage	10	V
Operable Temperature Range	-45 to +125	°C
Specification Temperature Range	-40 to +85	°C
Storage Temperature in Tape and Reel	-45 to +85	°C
Moisture Sensitivity Level	1	MSL

**Electrical Characteristics**

Characteristic	Sym	Notes	Min	Typ	Max	Units
Center Frequency	f <sub>C</sub>			435		MHz
3dB Bandwidth			10	23		MHz
Insertion Loss, 430 to 440 MHz	IL			1.9	3.0	dB
Amplitude Ripple, 430 to 440 MHz				0.8	2.0	dB
Attenuation Referenced to 0 dB						dB
0.3 to 386.6 MHz			45	54		
386.6 to 396.6 MHz			46	52		
474.8 to 480.8 MHz			45	54		
480.8 to 680 MHz			45	50		
680 to 1000 MHz			35	46		
Temperature Coefficient of Frequency				-36		ppm/°C

Case Style	SM3030-6 3.0 x 3.0 mm Nominal Footprint
Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator	B3, YWWS

**Measurement Circuit**

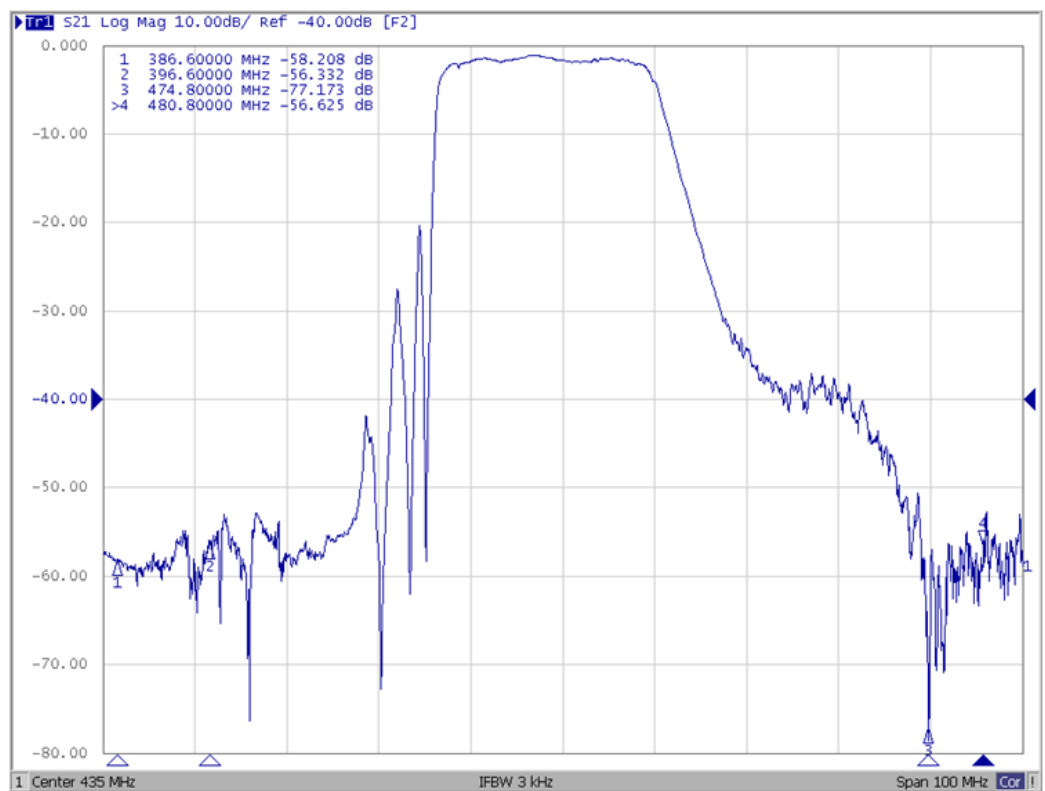
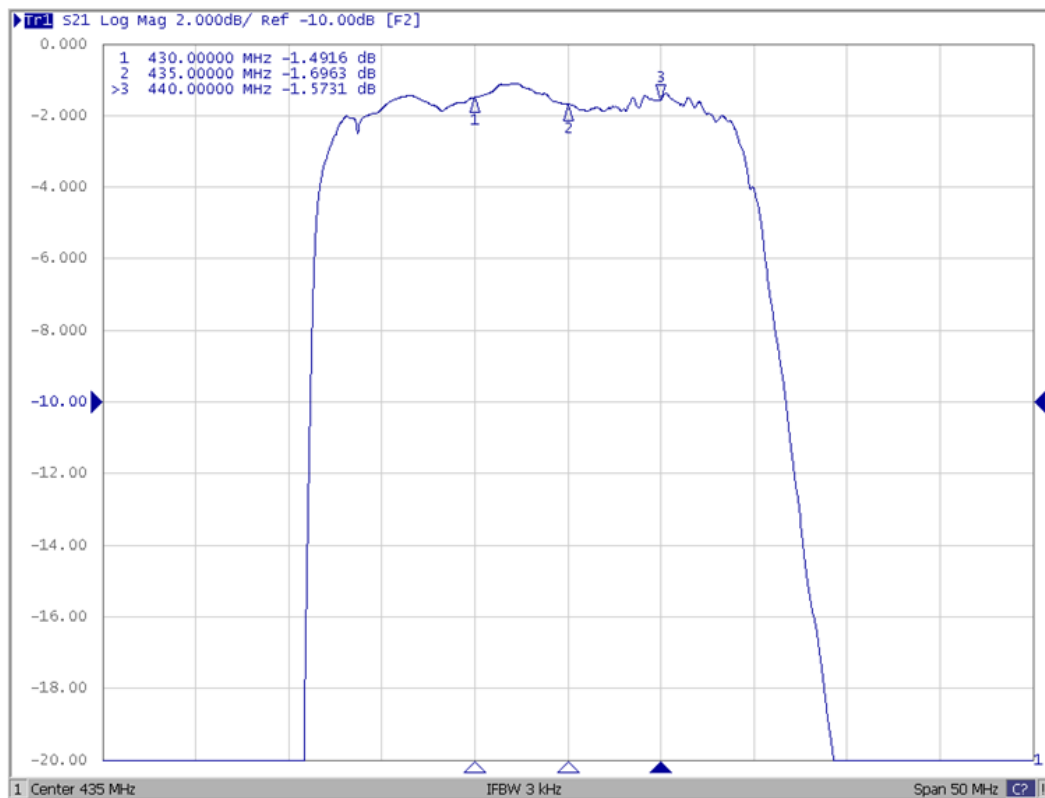


**CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.**

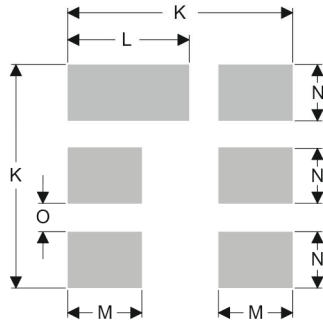
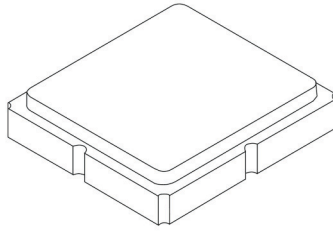
**NOTES:**

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.

## Frequency Characteristics



## 6-Terminal Ceramic Surface-Mount Case 3.0 X 3.0 mm Nominal Footprint



PCB Footprint Top View

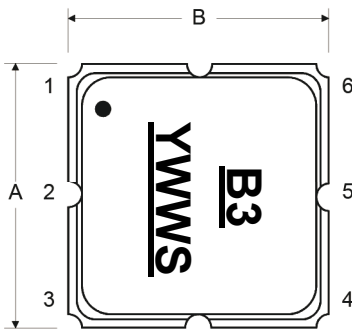
Case and PCB Footprint Dimensions

Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	2.87	3.00	3.13	0.113	0.118	0.123
B	2.87	3.00	3.13	0.113	0.118	0.123
C	1.12	1.25	1.38	0.044	0.049	0.054
D	0.77	0.90	1.03	0.030	0.035	0.040
E	2.67	2.80	2.93	0.105	0.110	0.115
F	1.47	1.60	1.73	0.058	0.063	0.068
G	0.72	0.85	0.98	0.028	0.033	0.038
H	1.37	1.50	1.63	0.054	0.059	0.064
I	0.47	0.60	0.73	0.019	0.024	0.029
J	1.17	1.30	1.43	0.046	0.051	0.056
K		3.20			0.126	
L		1.70			0.067	
M		1.05			0.041	
N		0.81			0.032	
O		0.38			0.015	

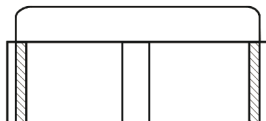
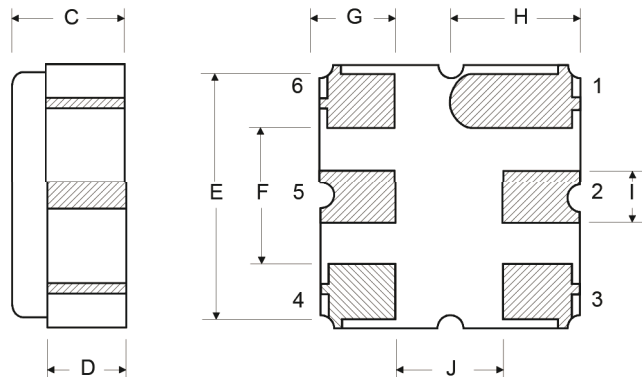
Case Materials

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
Pb Free	

Top View



Bottom View



**Tape and Reel Specifications**

See Detail "A"

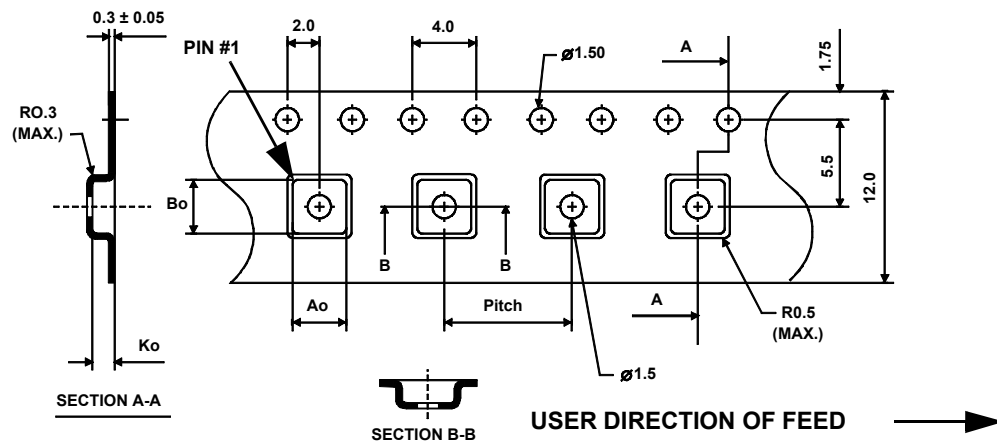
100 REF.

"B" REF.

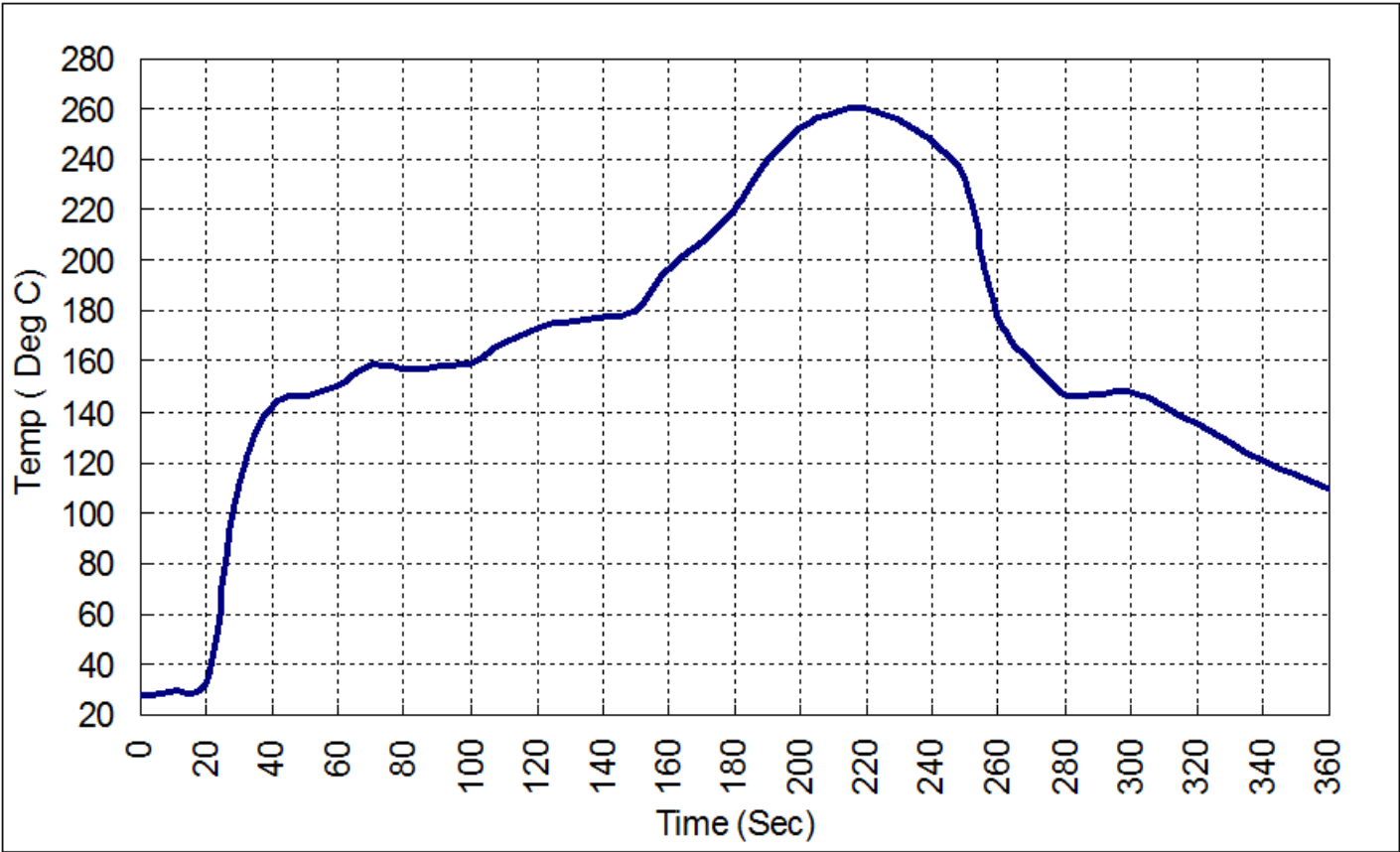
12.0

Technical drawing of a circular part. The drawing shows a cross-section of a circular component with a central hole. The outer diameter is labeled as 20.2. The inner diameter is labeled as 13.0. The thickness of the part is labeled as 2.0. The drawing includes a center line and a section line.

Carrier Tape Dimensions	
<b>Ao</b>	4.25 mm
<b>Bo</b>	4.25 mm
<b>Ko</b>	1.30 mm
<b>Pitch</b>	8.0 mm
<b>W</b>	12.0 mm



# Recommended Reflow Profile:



# Mouser Electronics

Authorized Distributor

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[SF2446E](#)