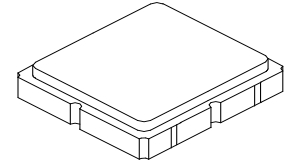


SF2717E

**809 MHz
SAW Filter**



SM3030-6

MAXIMUM RATING:

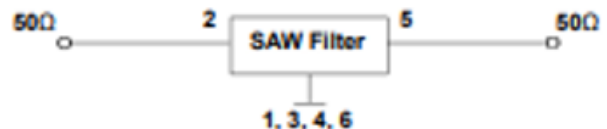
1. Input Power Level: 20 dBm
2. DC Voltage : 3 V
3. Operating Temperature: -30 °C to +85 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensitive Level: Level 1 (MSL1)

ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	809	-
Max. Insertion Loss (794 ~ 824 MHz) IL	dB	-	2.9	4.5
Max. Insertion Loss (793 ~ 825 MHz) IL			3.5	5.5
Passband Ripple (794 ~ 824 MHz)	dB	-	1.4	3.0
Source Impedance (single ended)	Ω	-	50	-
Load Impedance (single ended)	Ω	-	50	-
Attenuation				
D.C ~ 758 MHz	dB	45	48	-
758 ~ 768 MHz	dB	35	48	-
850 ~ 880 MHz	dB	30	37	-
880 ~ 1300 MHz	dB	45	48	-
Package size	mm	SMD 3.0x3.0		

Electrical Connections

Connection	Terminals
Input	2
Output	5
Case Ground	All others





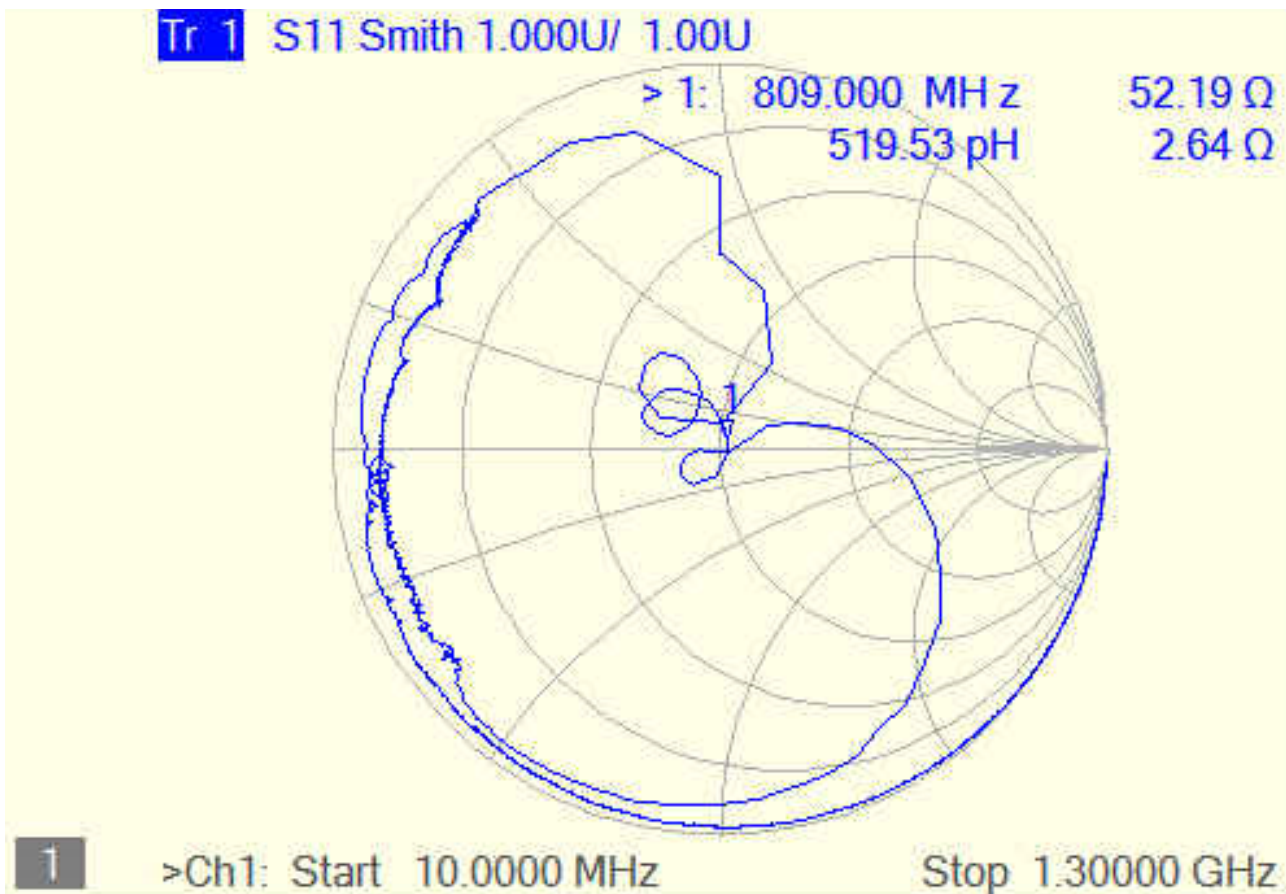
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

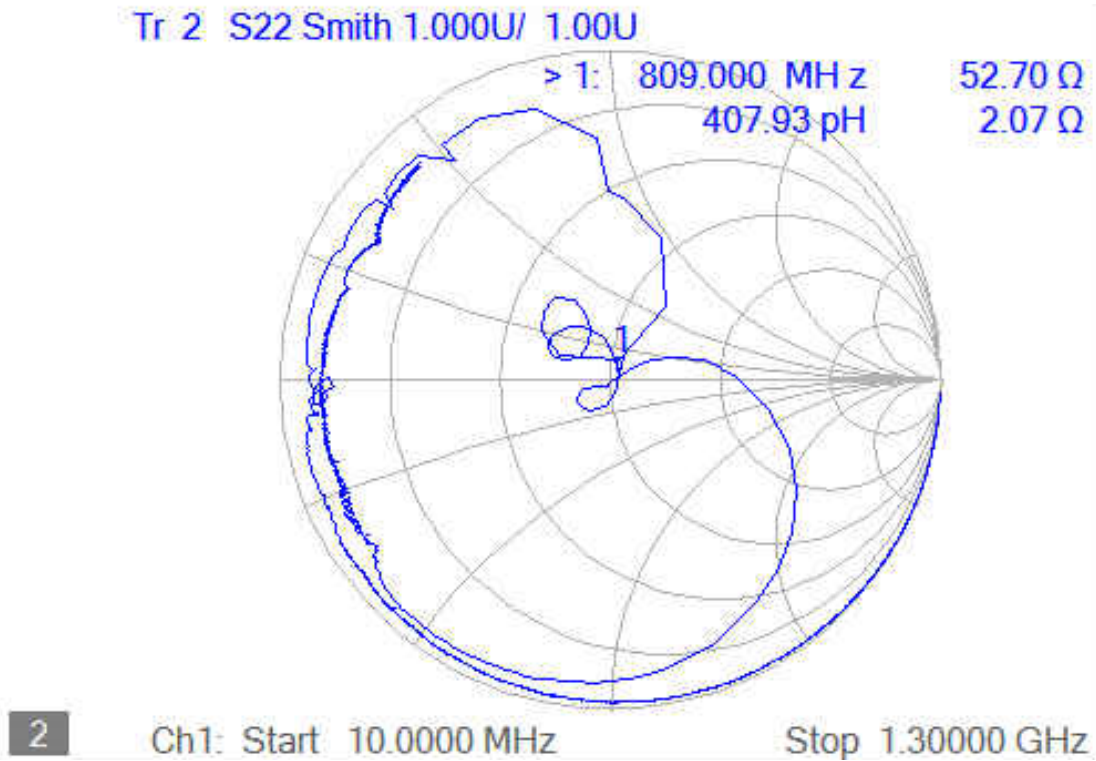
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

FREQUENCY CHARACTERISTIC:(1)

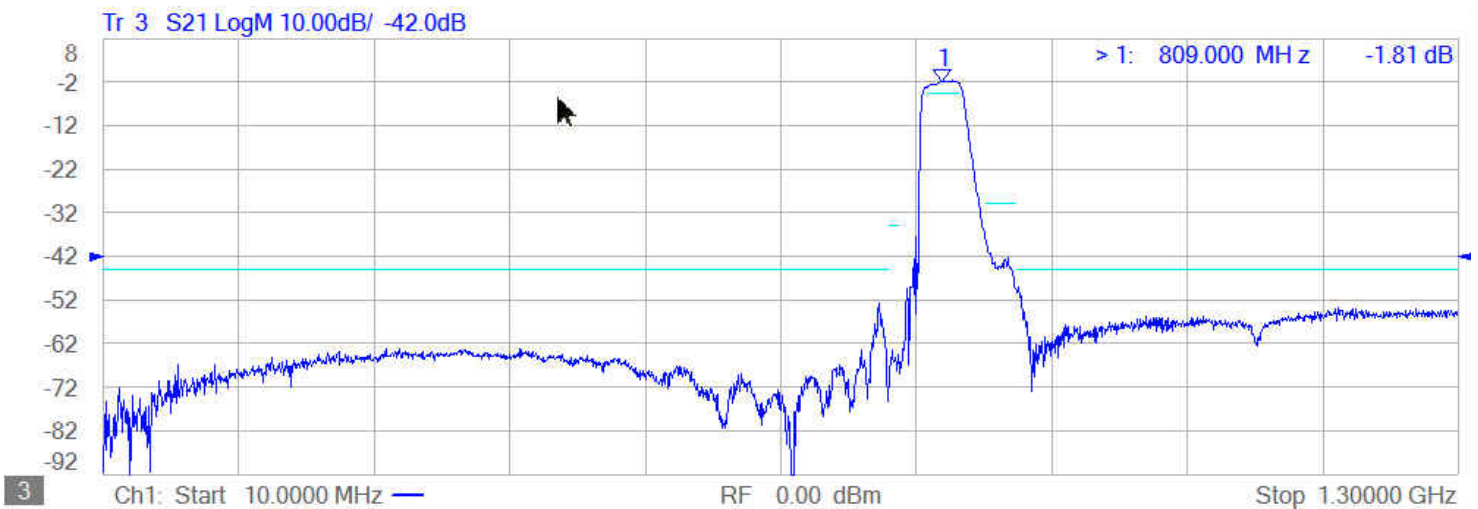
Wide band Response: (span 1.3GHz)



(2) Pass band Response: (span 200 MHz)



(3) Pass band Response: (span 50 MHz)

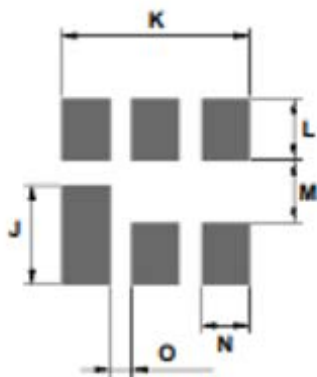
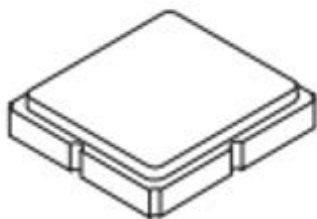


(4) S11 & S22 VSWR Response: (span 50 MHz)



SM3030-6 Case

6-Terminal Ceramic Surface Mount Case 3.0 x 3.0 mm Nominal Footprint



PCB Footprint

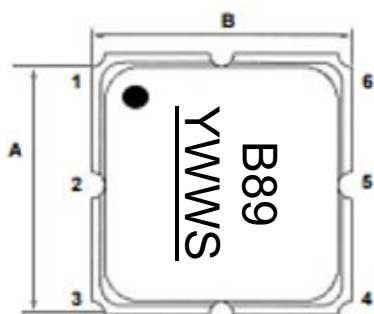
Case and PCB Footprint Dimensions

Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	2.85	3.00	3.15	0.112	0.118	0.124
B	2.85	3.00	3.15	0.112	0.118	0.124
C	-	-	1.40	-	-	0.055
D	2.39	2.54	2.69	0.094	0.100	0.105
E	1.45	1.60	1.75	0.057	0.062	0.088
F	0.70	0.85	0.90	0.027	0.033	0.003
G	1.35	1.50	1.65	0.053	0.050	0.084
H	0.45	0.60	0.75	0.017	0.023	0.029
I	1.15	1.30	1.45	0.045	0.051	0.57
J	-	1.70	-	-	0.066	-
K	-	3.20	-	-	0.125	-
L	-	1.05	-	-	0.041	-
M	-	1.09	-	-	0.042	-
N	-	0.81	-	-	0.031	-
O	-	0.38	-	-	-0.014	-

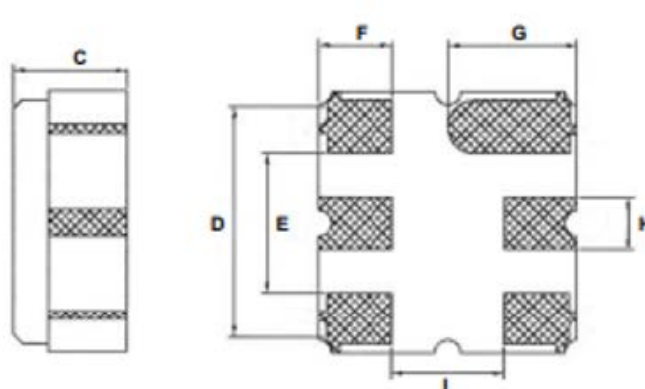
Case Materials

Solder Pad Plating	0.3 to 1.0 um Gold over 1.27 to 8.89 um Nickel
Lid Plating	2.0 to 3.0 um Nickel
Body	Al ₂ O ₃ Ceramic

TOP VIEW

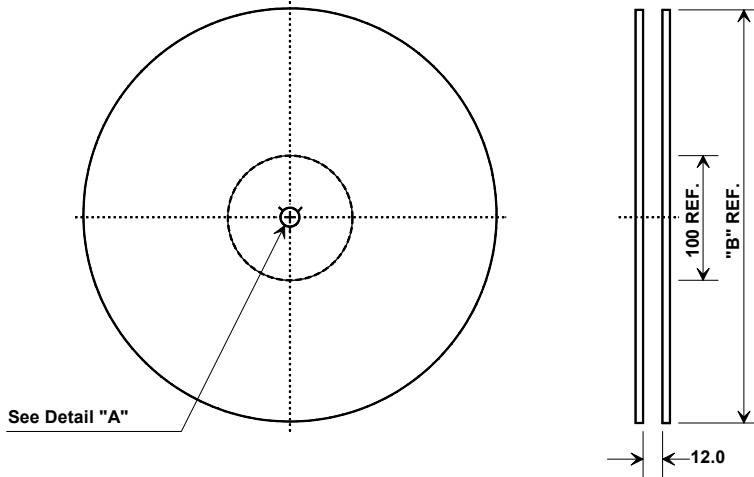


BOTTOM VIEW

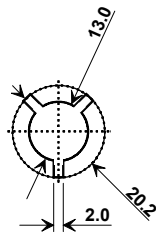


Tape and Reel Specifications

Tape and Reel Standard per ANSI/EIA-481

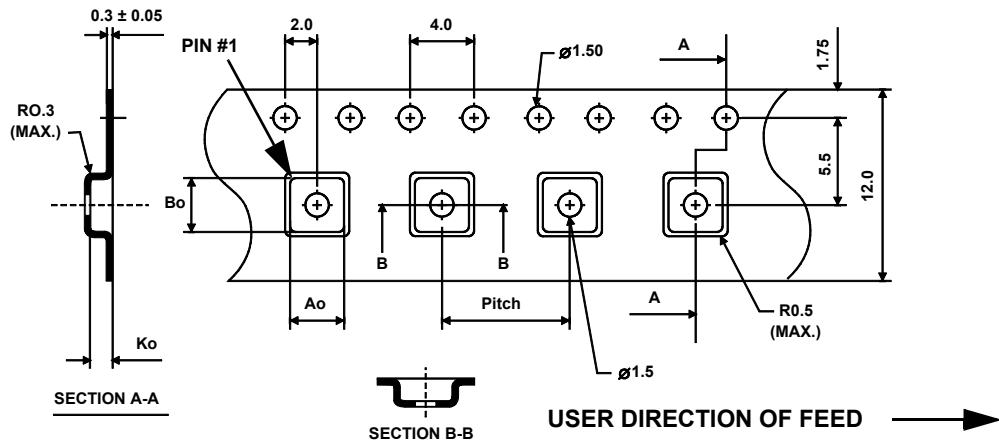


"B"		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	3000



COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions	
Ao	3.35 mm
Bo	3.35 mm
Ko	1.40 mm
Pitch	8.0 mm
W	12.0 mm



STORAGE CONDITIONS:

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.

