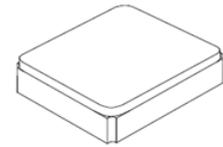


SF2680H

**1567.5 MHz
SAW Filter**



SM2016-4

- *Designed for Front End GPS, Beidou, and Glonass Applications*
- *Steep Rejection*
- *2.0 x 1.6 x 1.0 mm Surface-Mount Case*
- *Complies with Directive 2002/95/EC (RoHS)*
- *Moisture Sensitivity Level: 1*

Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	+15	dBm
DC Voltage	5	VDC
Operable Temperature Range	-45 to +125	°C
Specification Temperature Range	-40 to +85	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C

Electrical Characteristics

Characteristic	Sym	NOTE	-40 to +85C			UNITS
			MIN	TYPICAL	MAX	
Center Frequency	Fc			1567.5		MHz
1 dB BW				30		MHz
Insertion Loss, 1556~1581 MHz	IL1			4.5	7.0	dB
Attenuation Referenced to 0 dB:						
880 to 1461 MHz			50	54		dB
1675 to 1800 MHz			50	54		
1800 to 2100 MHz			45	48		
2100 to 2500 MHz			40	43		
Temperature Coefficient of Frequency				-18		ppm/°C
Source impedance	Z _S			50		Ω
Load impedance	Z _L			50		Ω
Single-ended Input / Output Impedance Match		No matching network required for operation at 50 ohms				



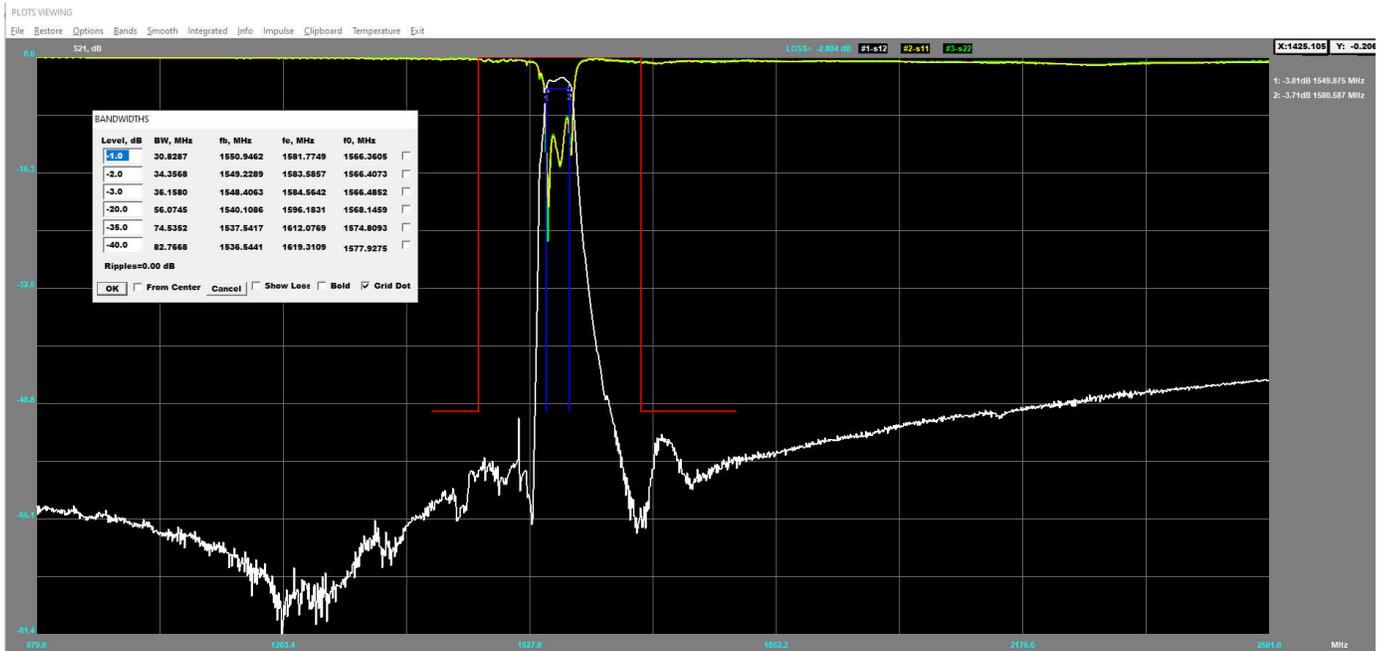
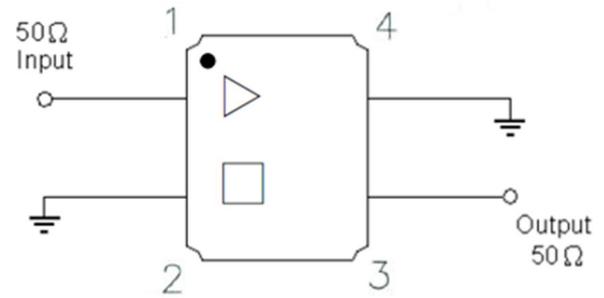
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

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.

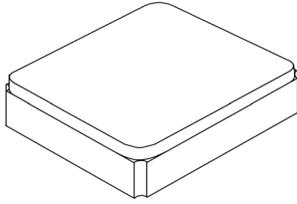
Electrical Connections

Connection	Terminals
Input	1
Output	3
Ground	All others



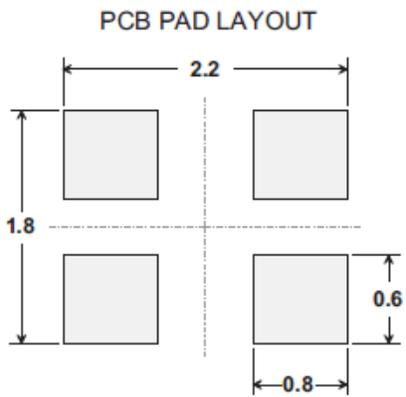
SM2016-4 Case

4-Terminal Ceramic Surface-Mount Case 2.0 X 1.6 mm Nominal Footprint



Electrical Connections

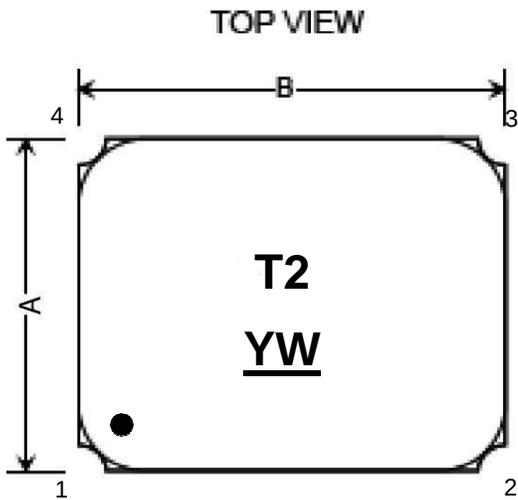
Connection	Terminals
Input	1
Output	3
Ground	2, 4



Dimensions in mm
All pads have the same dimensions

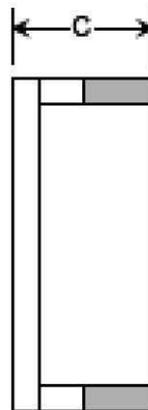
PCB Footprint Top View

Dimensions	Millimeters			Inches		
	Min	Nom	Max	Min	Nom	Max
A	1.58	1.65	1.72	0.062	0.064	0.067
B	1.98	2.05	2.12	0.077	0.080	0.083
C	-	-	0.9	-	0.035	0.035
D	-	0.60	-	-	0.023	-
E	-	0.425	-	-	0.016	-
F	-	0.60	-	-	0.023	-
G	-	0.625	-	-	0.024	-
H	-	0.10	-	-	0.003	-

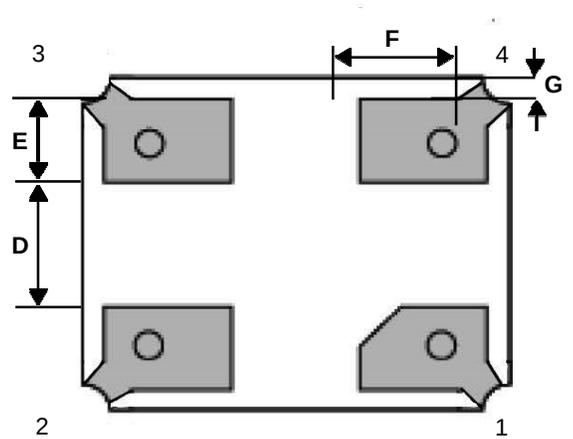


Line 2: Y = Year, W = Week

SIDE VIEW

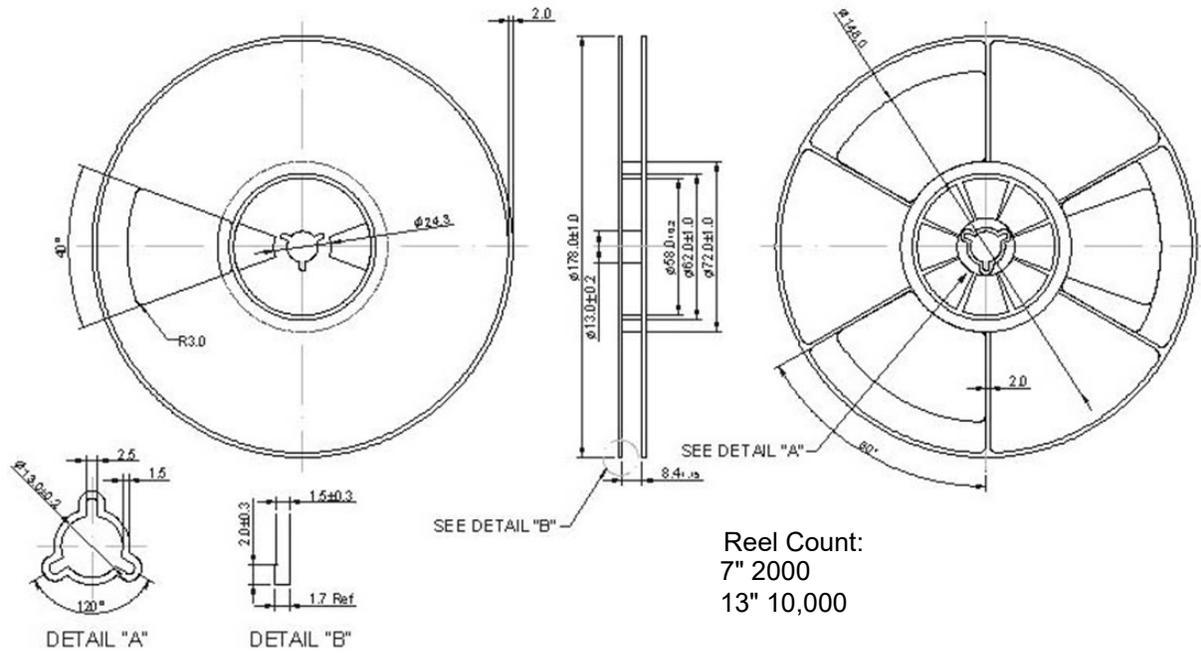


BOTTOM VIEW

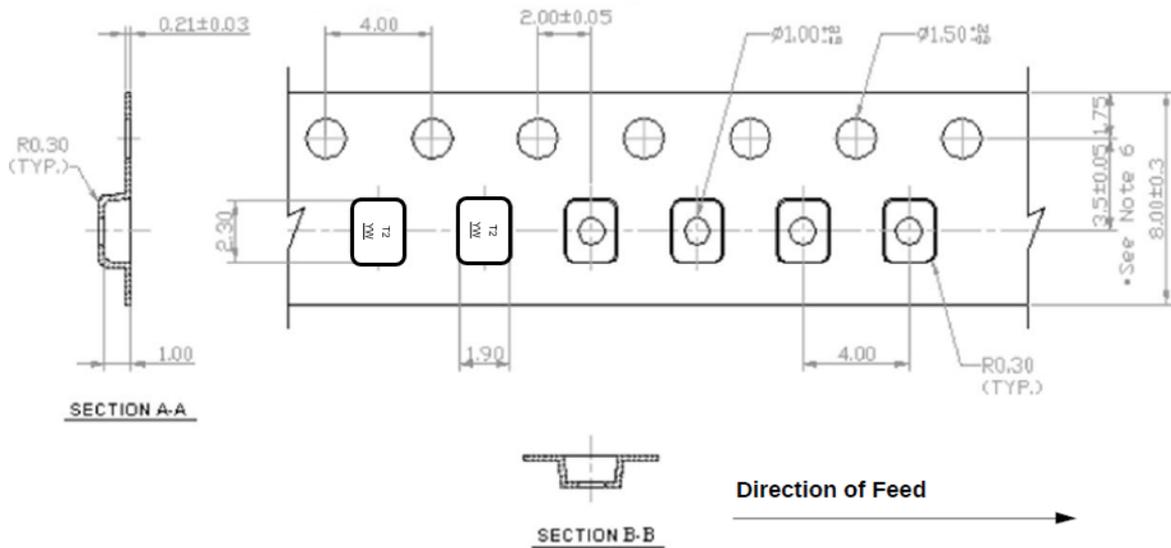


Tape and Reel Standard per ANSI/EIA-481

Reel Dimensions



Tape 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 (10 seconds).
4. Time: 5 times maximum.

