

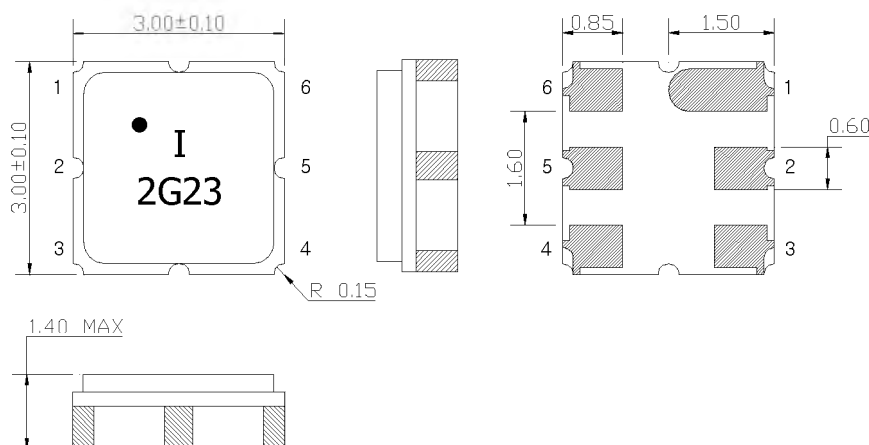
SAW Bandpass Filter F2G23



Features

- RF bandpass filter
- High attenuation
- No matching 50Ω single-ended operation
- Ceramic Surface Mounted Device (SMD) Package (3.0 mm * 3.0 mm)
- RoHS Compliant

Package Dimensions



Dimensions shown are nominal in millimeters

Body : Al₂O₃ Ceramic

Lid : Kovar, Ni Plated

Terminations : Au plating 0.3 ~ 1.0 um, Over a 1.27 ~ 8.89 um
Ni Plating

Pin Configuration

2	Input
5	Output
1, 3, 4, 6	Case ground

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	℃	-20	25	70
Storage Temperature Range	℃	-30	25	85
Power Handling Capability	dBm	-	10	-

Electrostatics Sensitive Device (ESD)

SAW Bandpass Filter F2G23



Specifications

$F_c = 2250 \text{ MHz}$

Terminating source impedance : 50Ω

Terminating load impedance : 50Ω

	Minimum	Typical	Maximum	Unit
Center Frequency (F_c)	-	2250	-	MHz
Insertion Loss (In $F_c \pm 50 \text{ MHz}$)	-	3.2	4.5	dB
Insertion Loss (In 2230 ~ 2240 MHz)	-	2.2	3.0	dB
Amplitude Ripple (In $F_c \pm 50 \text{ MHz}$)	-	1.9	3.0	dBp-p
VSWR (In $F_c \pm 50 \text{ MHz}$)	-	1.9	2.5	-
Relative Attenuation				
D.C ~ 2160 MHz	25	28	-	dB
2340 ~ 4000 MHz	25	28	-	
Input/Output Impedance		50		Ohms

Notes :

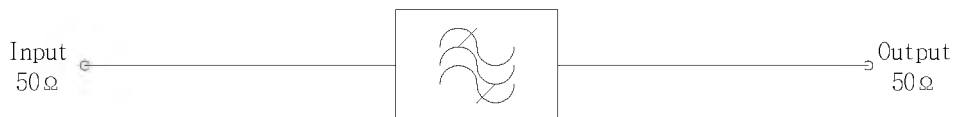
- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances

SAW Bandpass Filter F2G23



Matching Schematic

(Actual matching values may vary due to PCB layout and parasitics)



Marking Configuration

1)
●
I 2)
2G23 3)

1) Pad Number 1 Index

2) Manufacturer name

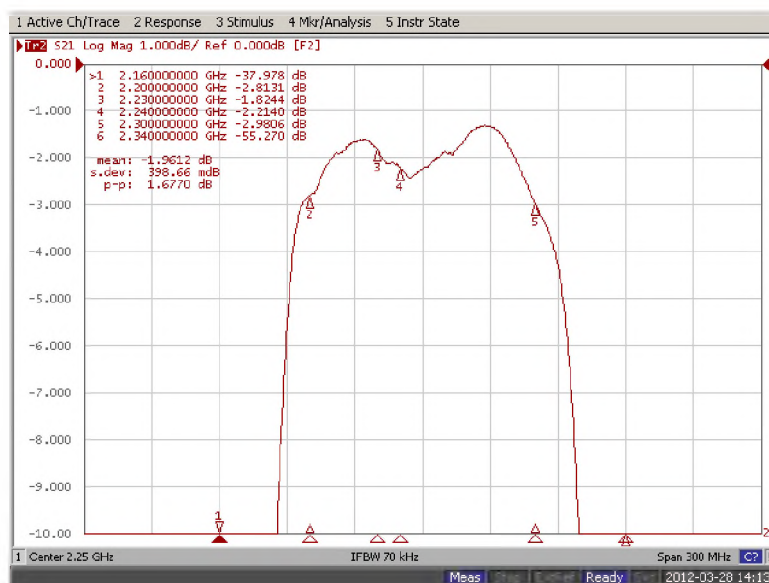
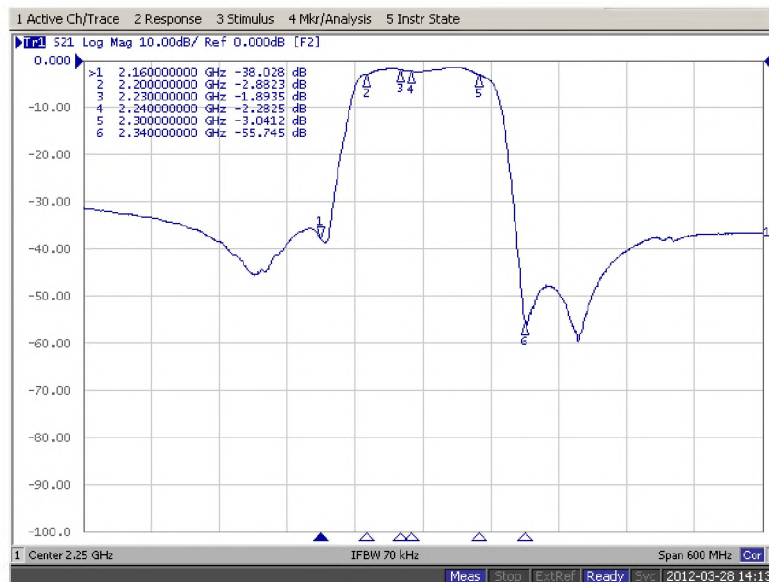
3) Marking Number

* Ink or Laser Marking available

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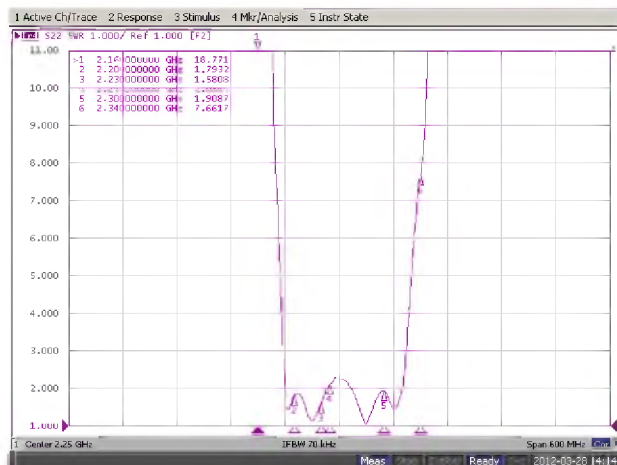
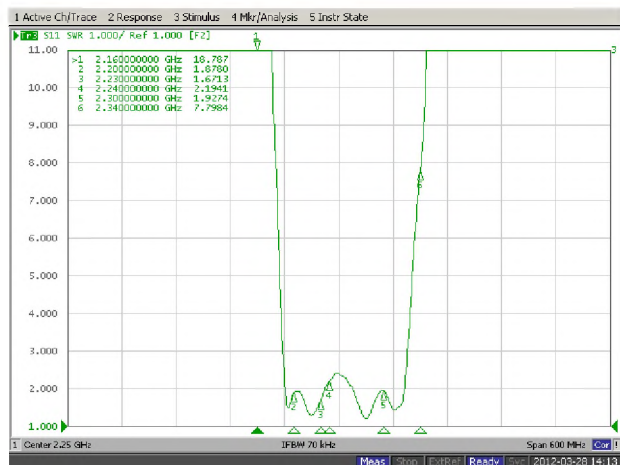
Typical Performance (at 25°C)



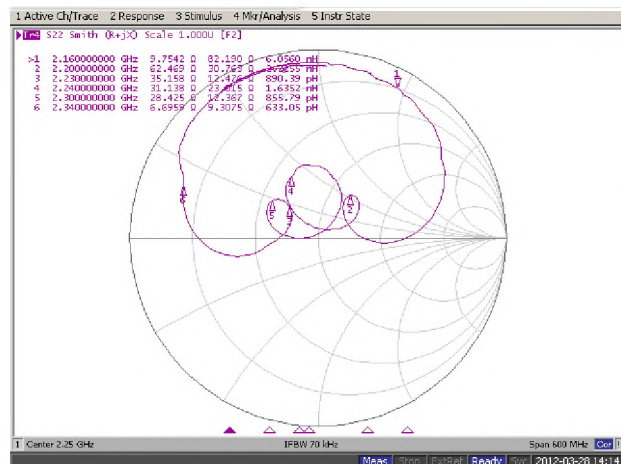
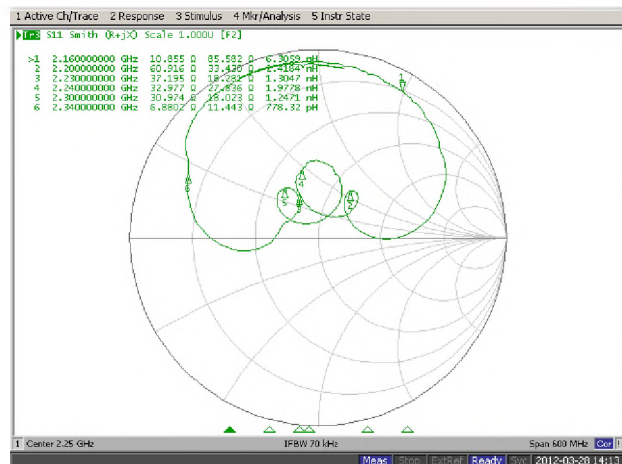
SAW Bandpass Filter F2G23



Input / Output VSWR Charts



Input / Output Smith Charts

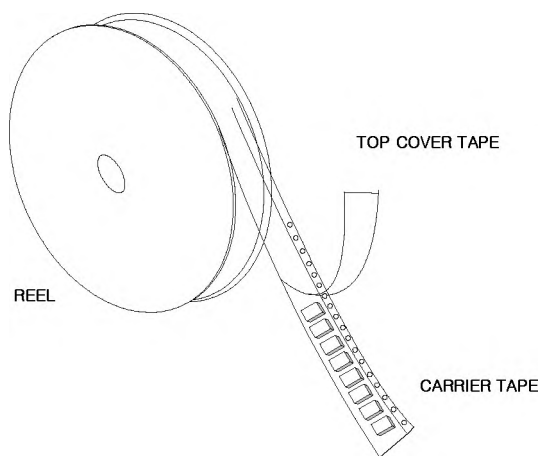


SAW Bandpass Filter F2G23



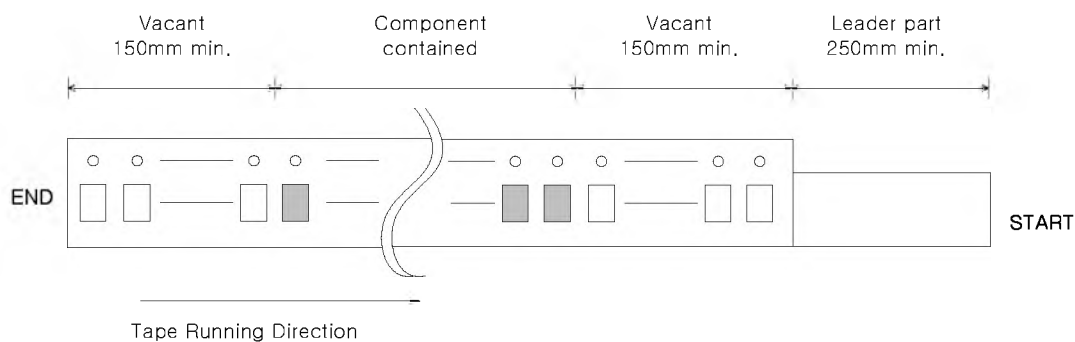
Packing Specification

1. Reeling Quantity : 3000 pcs / 13" reel (or 1000 pcs / 7" reel)
2. Taping Structure : The tape shall be wound around the reel in the direction shown below.



Tape Specification

1. Leader part and vacant position specification

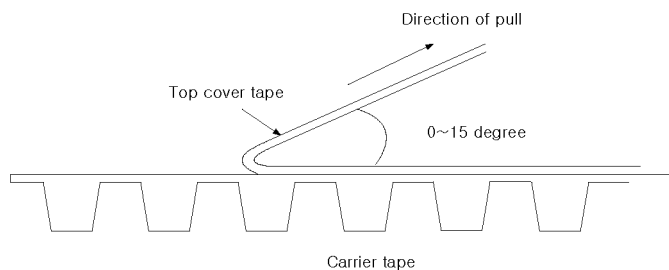


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

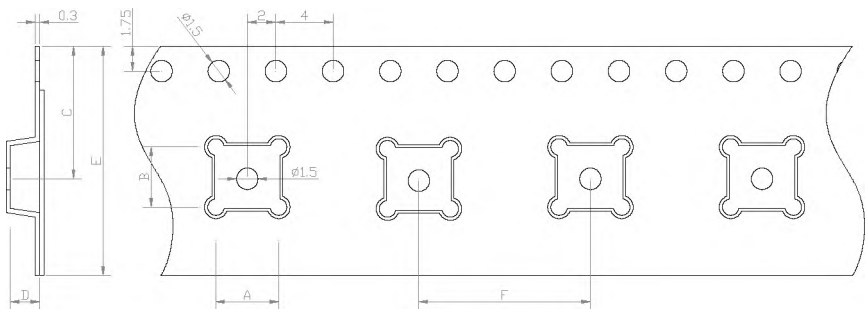
- 1) pull off angle : 0~15°
- 2) speed : 300mm/min
- 3) force : 20~70g



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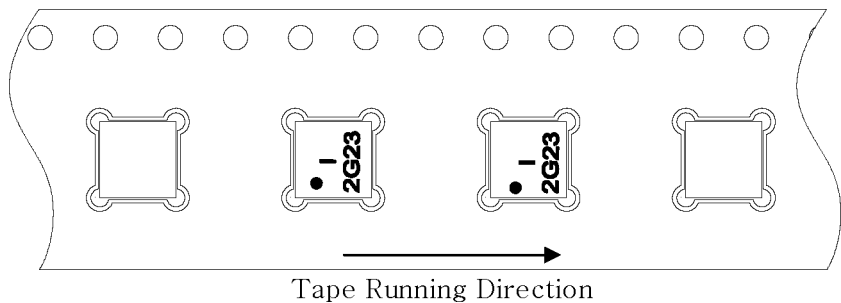


Carrier Tape Dimensions [unit : mm]



A	3.40 ± 0.1
B	3.40 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]

