

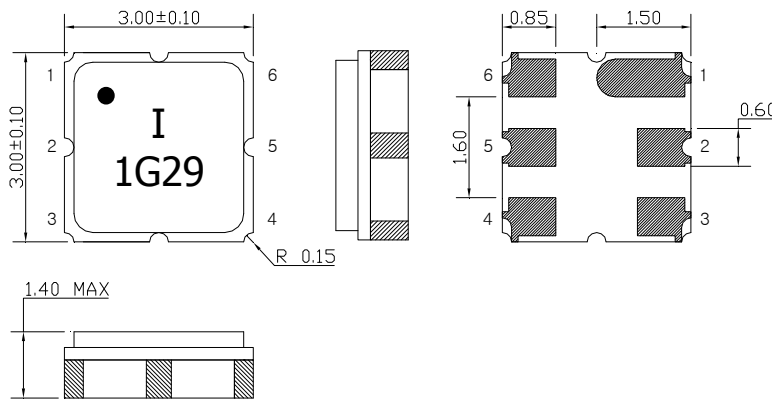
SAW Bandpass Filter F1G29



Features

- RF bandpass filter
- Usable bandwidth 62.0 MHz
- Ceramic Surface Mounted Device (SMD) Package (3.0mm × 3.0mm)
- RoHS/RoHS2 (2015/863/EU) Compliant
- This part is compliant with AEC-Q200

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

Pin Configuration	
2	Input
5	Output
1, 3, 4, 6	Ground

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	25	110
Storage Temperature Range	°C	-40	-	125
Power Handling Capability	dBm	-	-	10

Electrostatics Sensitive Device (ESD)

	ITF Co., Ltd. 102-901, 22, Samjak-ro, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea, 14501	Part No.	F1G29	
		Rev. Date	2019-07-22	
		Rev.	NRUG03-AS02	1/7

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Specifications

Fc = 1253.0 MHz

		Minimum	Typical	Maximum
Center Frequency (Fc)	MHz	-	1253.0	-
Insertion Loss				
1222.0 ~ 1245.0 MHz	dB	-	2.3	3.5
1266.0 ~ 1284.0 MHz		-	2.6	3.5
Amplitude Ripple				
1222.0 ~ 1245.0 MHz	dB	-	0.2	0.7
1266.0 ~ 1284.0 MHz		-	0.2	0.7
VSWR				
1222.0 ~ 1245.0 MHz	dB	-	1.4	2.0
1266.0 ~ 1284.0 MHz		-	1.5	2.0
Absolute attenuation				
~ 1190.0 MHz	dB	7	9	-
1320.0 MHz ~		3	5	-
Input/Output impedance	Ohm	-	50	-

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

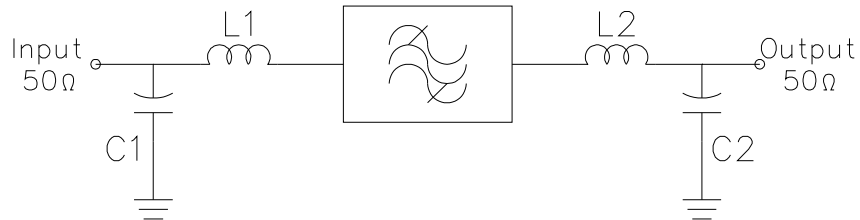
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Matching Schematic

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



$$L1 = L2 = 3.9\text{nH}, \quad C1 = C2 = 1.2\text{pF}$$

Marking Configuration


- 1)
I 2)
1G29 3)

1) Pad Number 1 Index

2) Manufacturer name

3) Marking Number

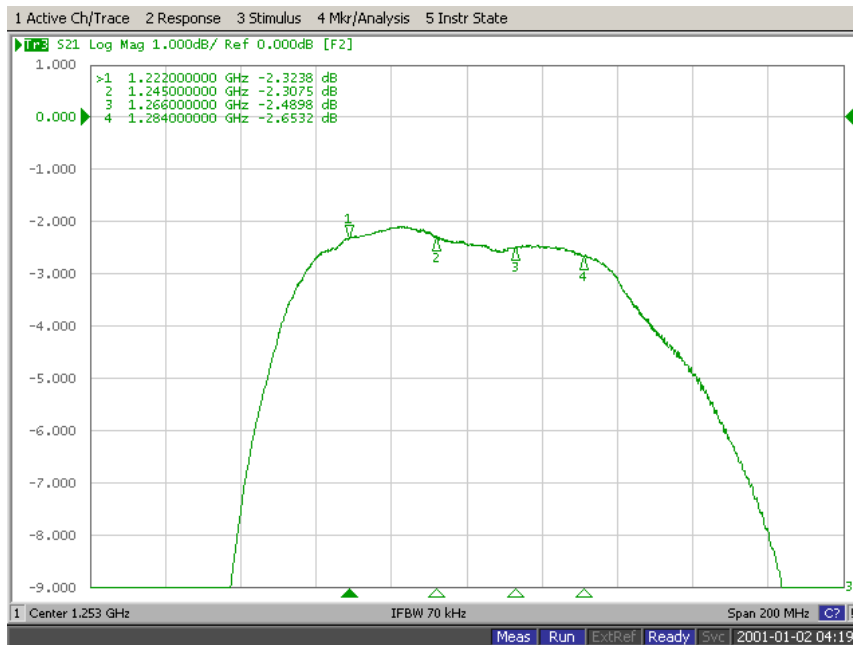
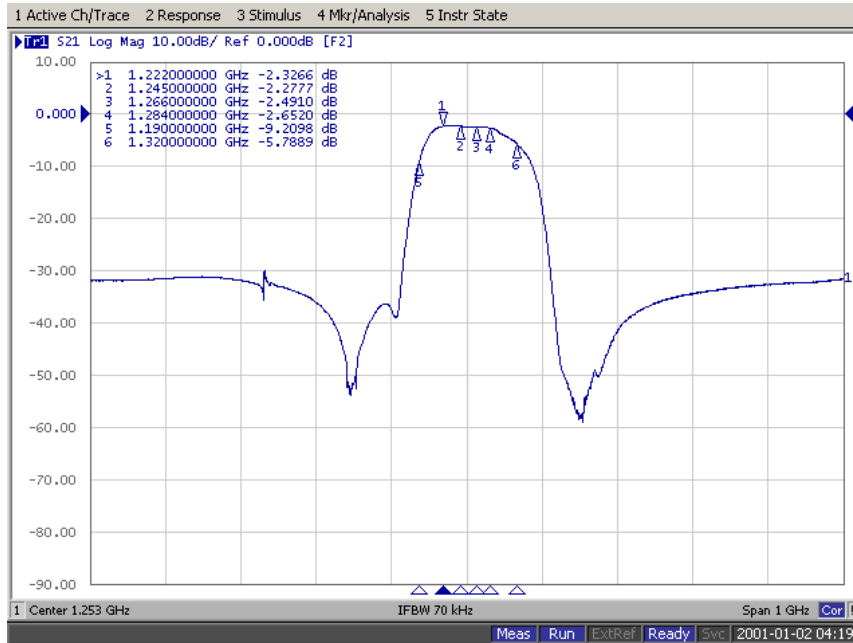
* Ink or Laser Marking available

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Typical Performance (at 25°C)

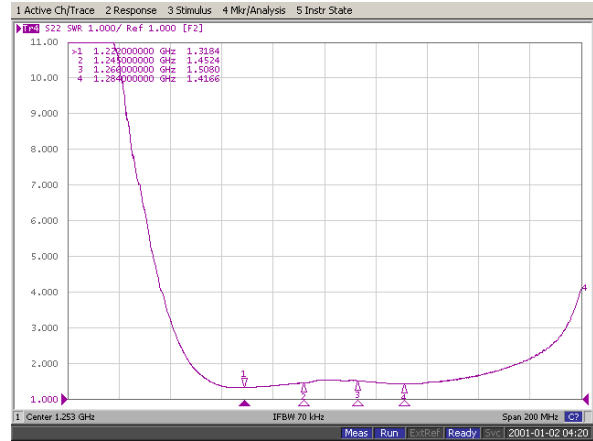
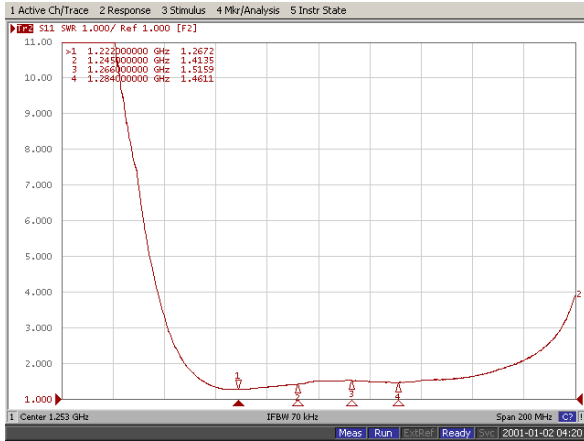


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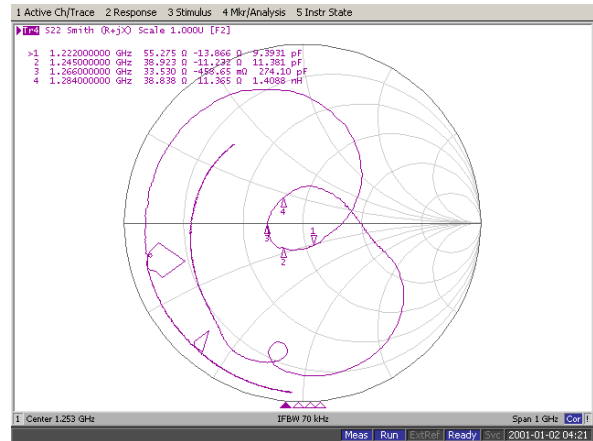
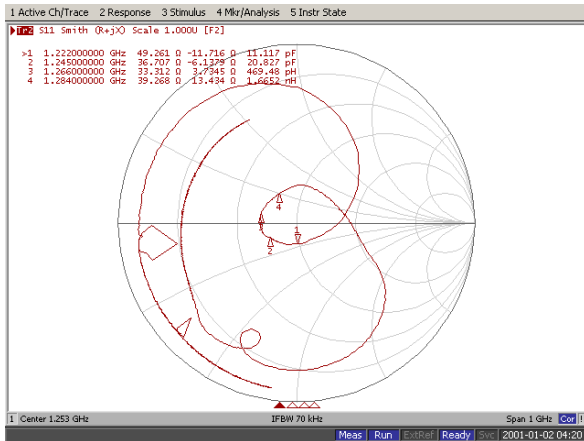
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Input / Output VSWR Charts



Input / Output Smith Charts



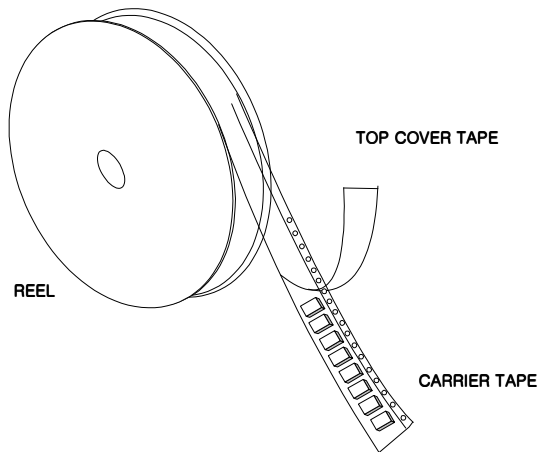
	ITF Co., Ltd. 102-901, 22, Samjak-ro, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea, 14501	Part No.	FIG29	
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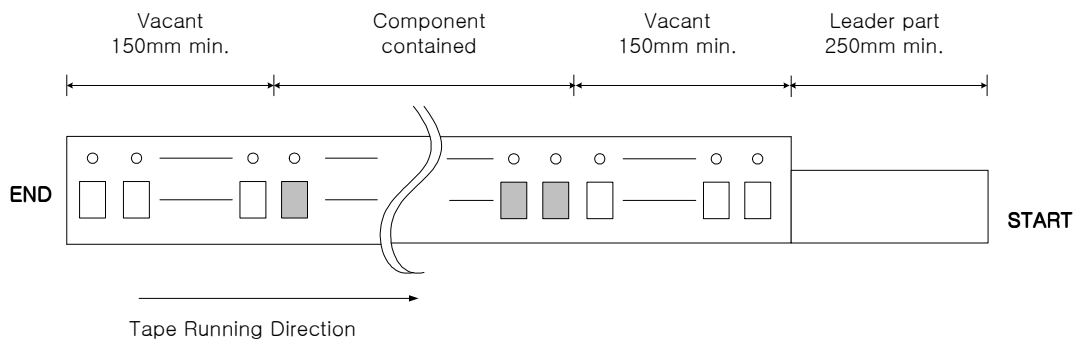
Packing Specification

1. Reeling Quantity : 1000 pcs / 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

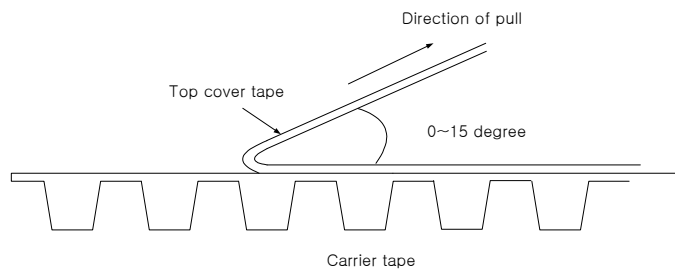



2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

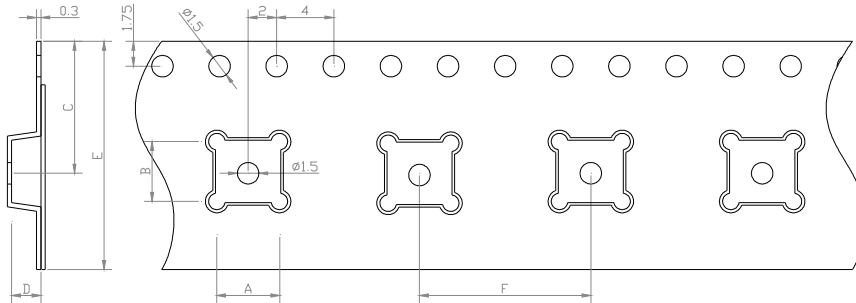


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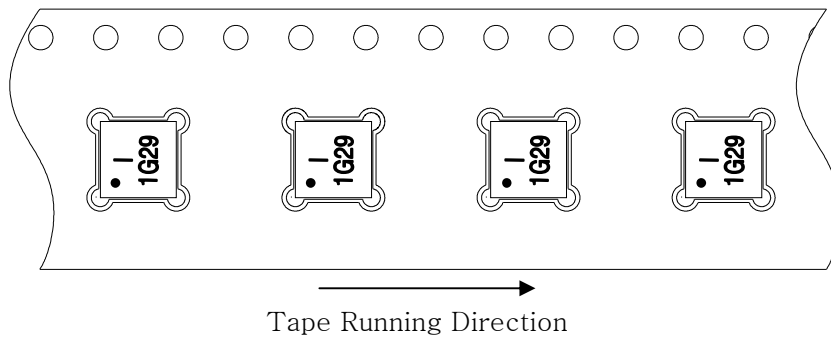


Carrier Tape Dimensions [unit : mm]

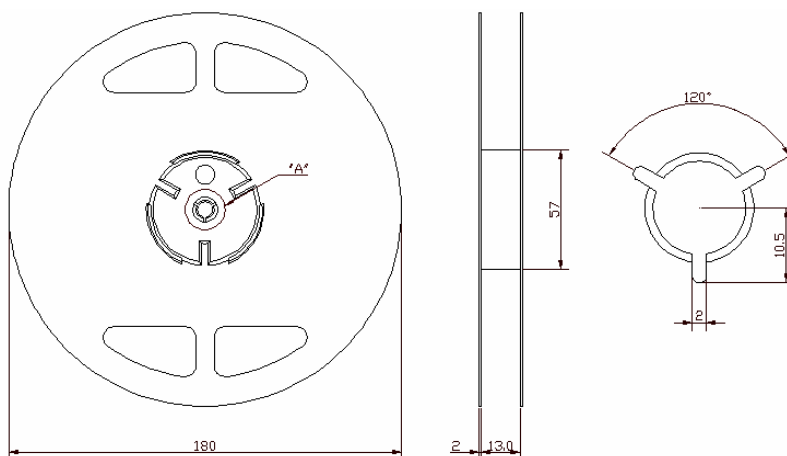


A	3.40 ± 0.1
B	3.40 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]



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