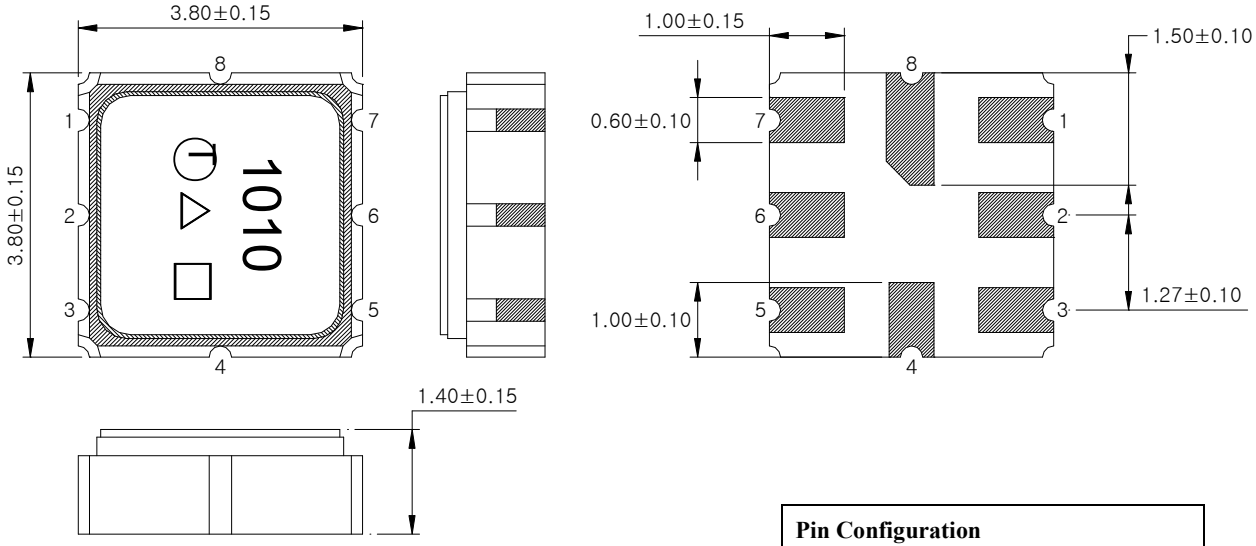
SAW Bandpass Filter F4602

Features

- RF bandpass filter
- High attenuation
- No matching 50Ωsingle-ended operation
- Ceramic Surface Mounted Device (SMD)
- RoHS Compliant

Package Dimension



Dimensions shown are nominal in millimeters

Body : Al_2O_3 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
6	Output
1, 3, 4, 5, 7, 8	Case ground

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	℃	-30	25	60
Storage Temperature Range	℃	-40	25	85
Power Handling Capability	dBm	-	-	10

Electrostatics Sensitive Device (**ESD**)

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Specifications

Fc = 460 MHz

	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	460	-	MHz
Insertion Loss (450 ~ 470 MHz)	-	2.6	3.2	dB
Amplitude Ripple (450 ~ 470 MHz)	-	1.2	2.4	dBp-p
Return Loss (450 ~ 470 MHz)	7	8.2	-	dB
Attenuation				
0.3 ~ 300 MHz	30	58	-	
300 ~ 380 MHz	24	56	-	
380 ~ 430 MHz	15	54	-	
504.825 ~ 524.825 MHz	12	44	-	dB
559.65 ~ 579.65 MHz	28	56	-	
669.3 ~ 689.3 MHz	24	54	-	
689.3 ~ 1000 MHz	26	44	-	
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

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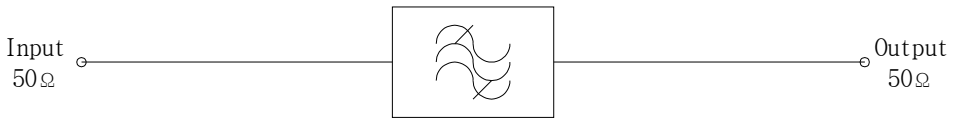
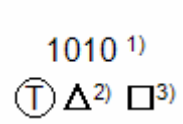
Matching Schematic

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



Marking Configuration



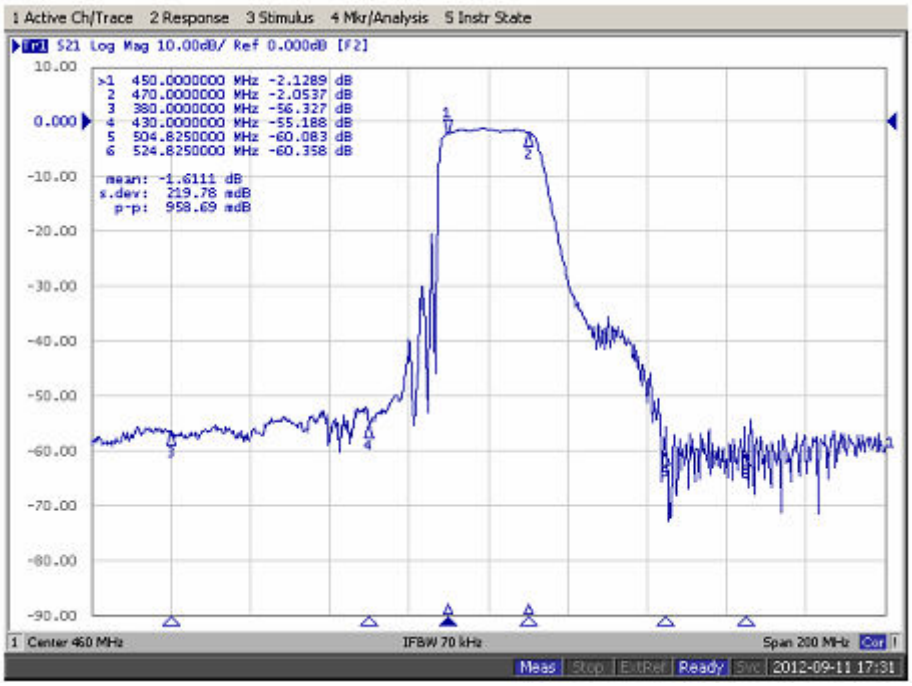
1) Series Number

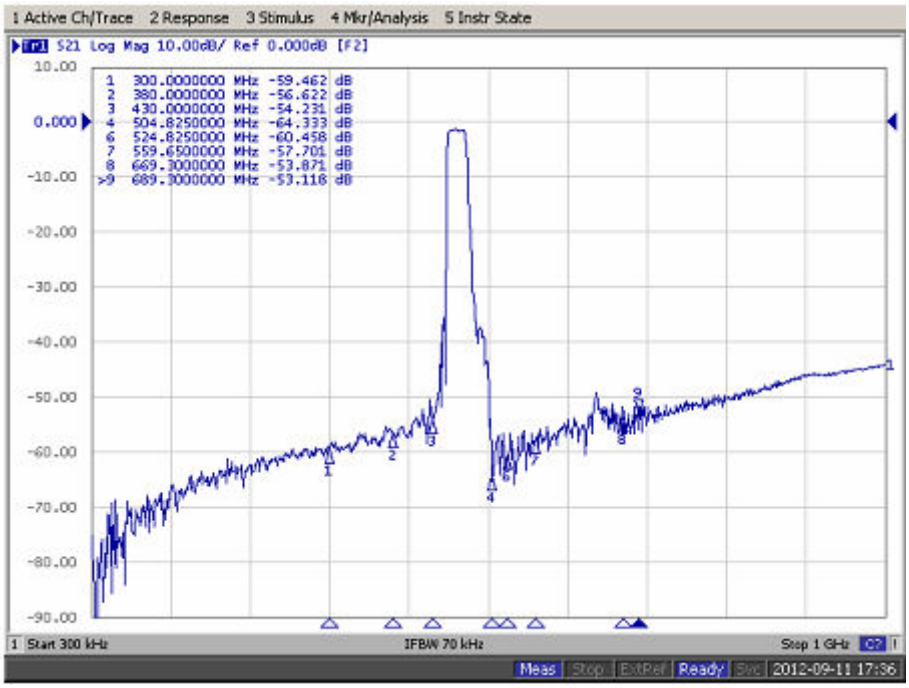
2) Date Code(Year)

3) Date Code(Month)

* Ink or Laser Marking available

Typical Performance (at 25℃)





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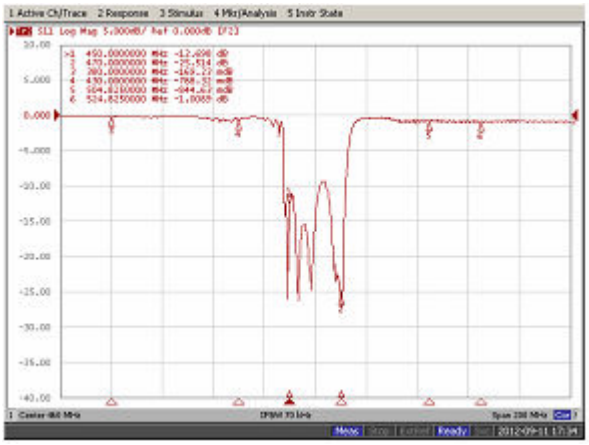
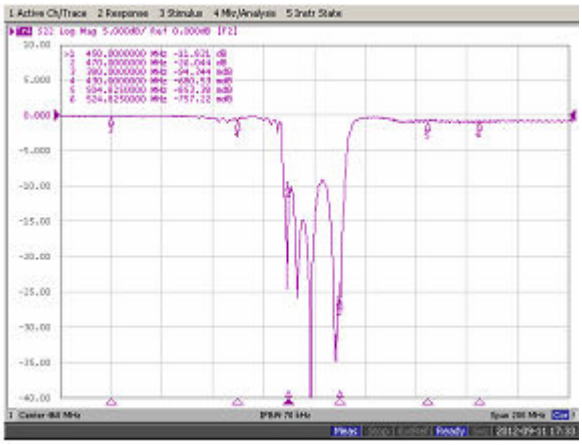
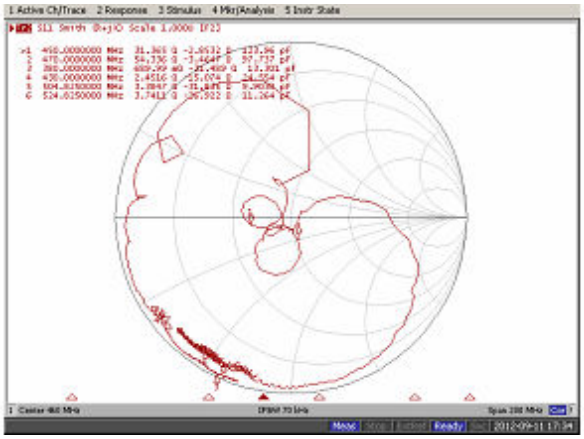
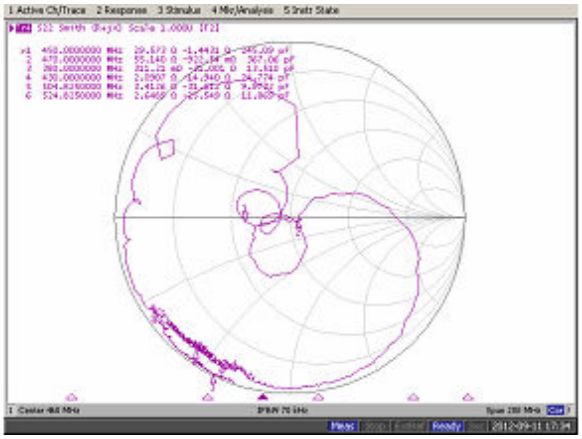
Input / Output VSWR Charts





Input / Output Smith Charts

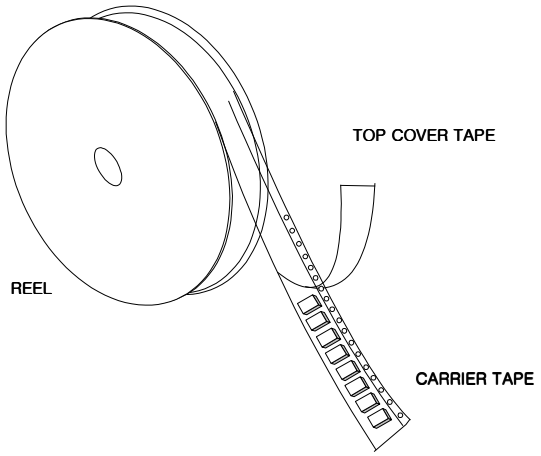




Packing Specification

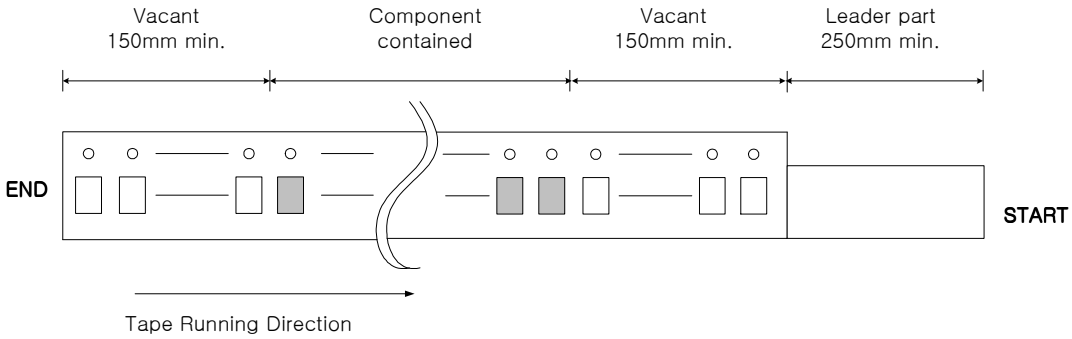
1. Reeling Quantity : 1000 pcs / reel

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

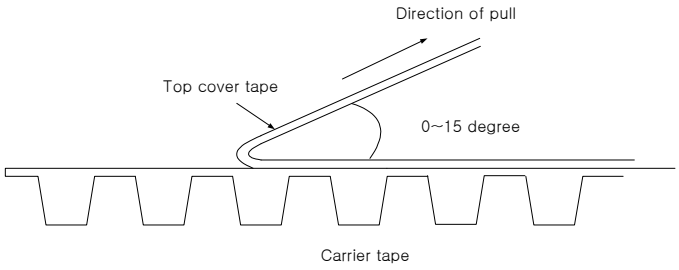
4.4N/mm width

3. Top cover tape adhesion

1) pull off angle : 0~15

2) speed : 300mm/min

force : 20~70g



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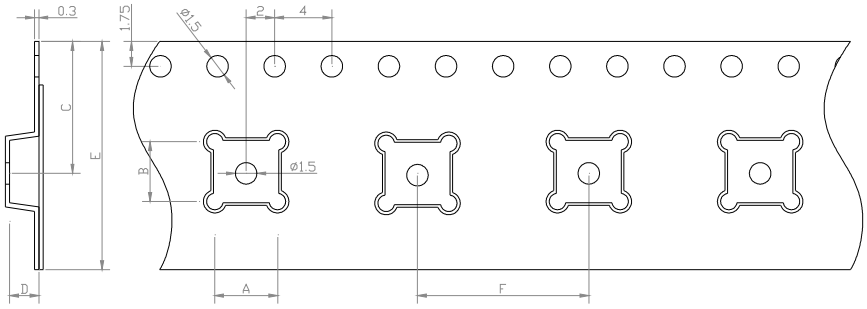
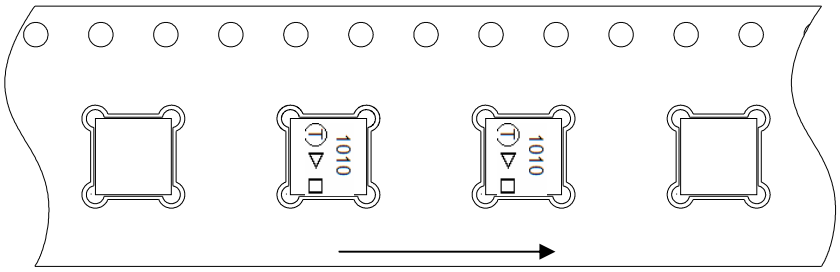
Carrier Tape Dimensions [unit : mm]



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]