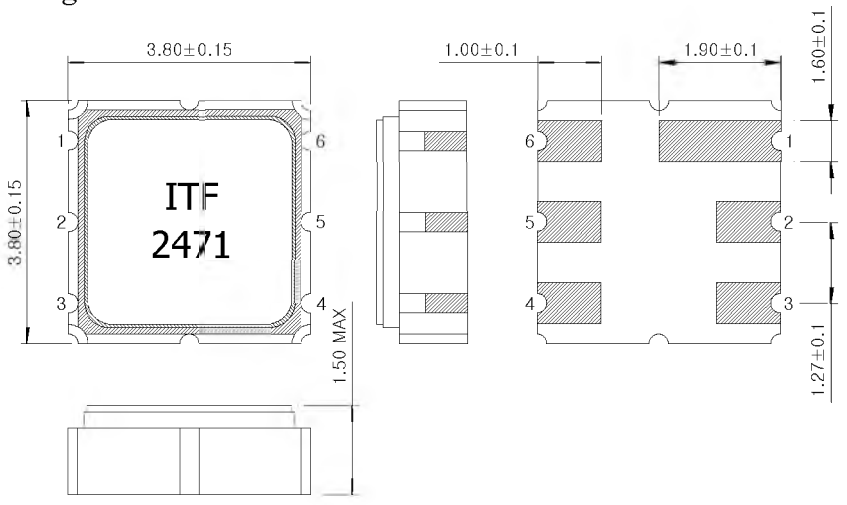
SAW Bandpass Filter F2471

Features

- Narrow bandpass filter
- High attenuation
- Matching 50Ω single-ended operation
- Ceramic Surface Mounted Device (SMD) Package (3.8 mm * 3.8 mm)
- RoHS Compliant

Package Dimensions



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
5	Output
1, 3, 4, 6	Case ground

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	25	85
Storage Temperature Range	°C	-45	25	85
Power Handling Capability	dBm	-	10	-

Electrostatics Sensitive Device (**ESD**)

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Specifications

Fc = 247.45MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency (Fc)	MHz	-	247.45	-
Insertion Loss	dB	-	-	5.0
3dB Bandwidth	kHz	-	600	-
Absolute Group Delay at Fc	usec	-	1.4	-
Attenuation Fc ± 600 kHz Fc ± 1.2 MHz Fc ± 21.6 MHz	dB	 20 34 45	 - - -	 - - -
Input/Output Impedance	Ohms	-	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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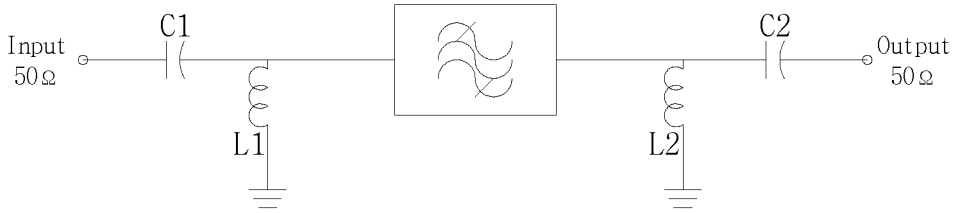
Matching Schematic

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



C1 = C2 = 3.9pF, L1 = L2 = 68nH

Marking Configuration

ITF[1)]

2471[2)]

1) Manufacturer name

2) Marking Number

Ink or Laser Marking available

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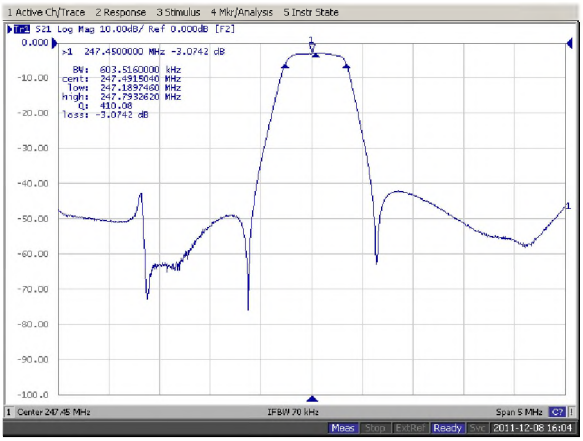
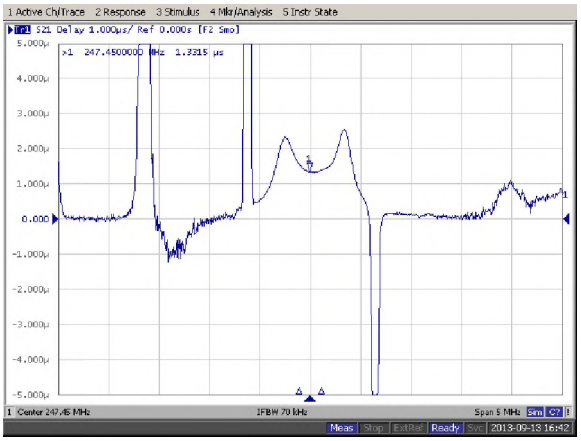
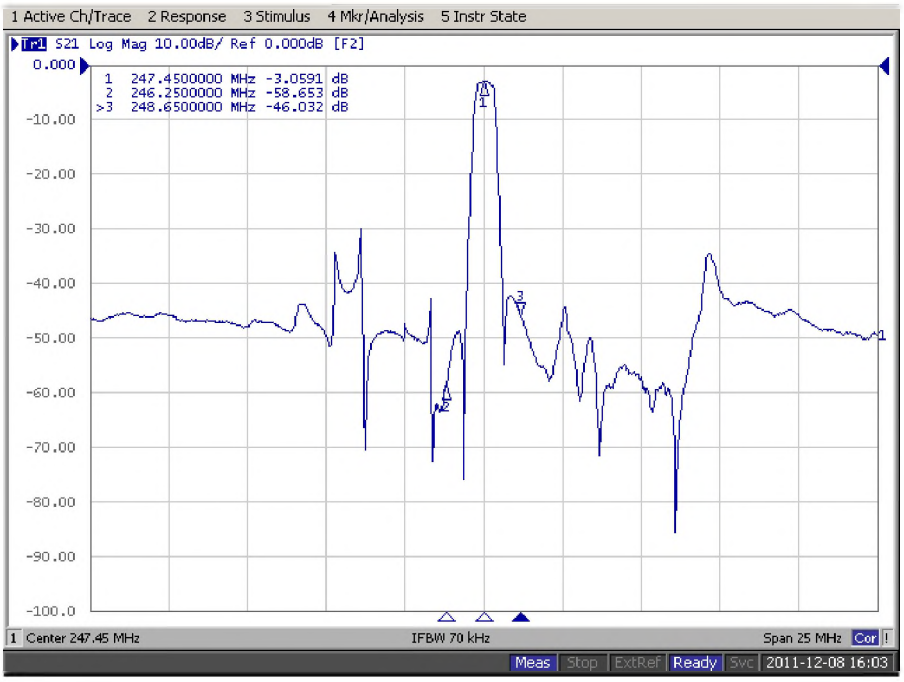
Typical Performance (at 25℃)







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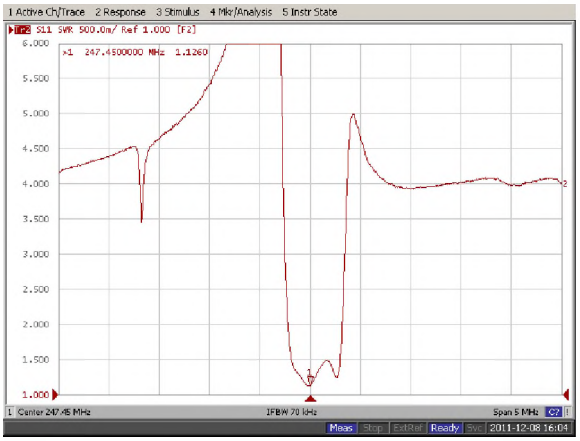
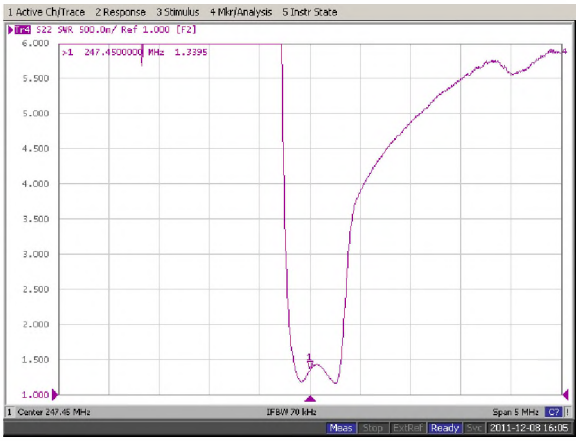
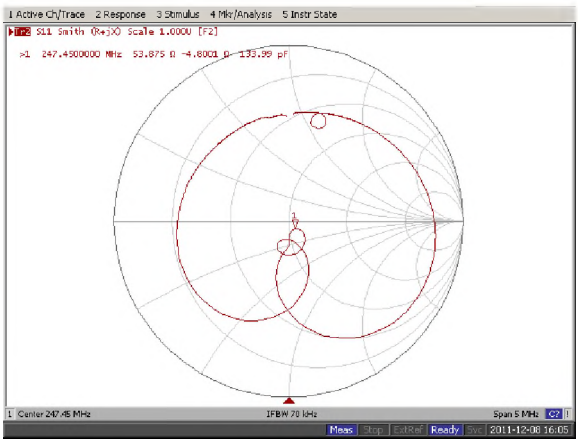
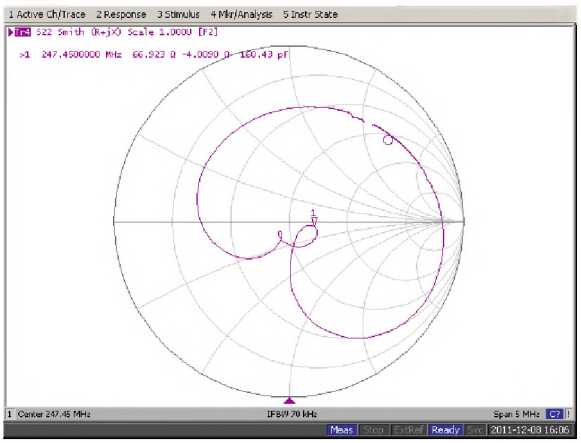
Input / Output VSWR Charts





Input / Output Smith Charts





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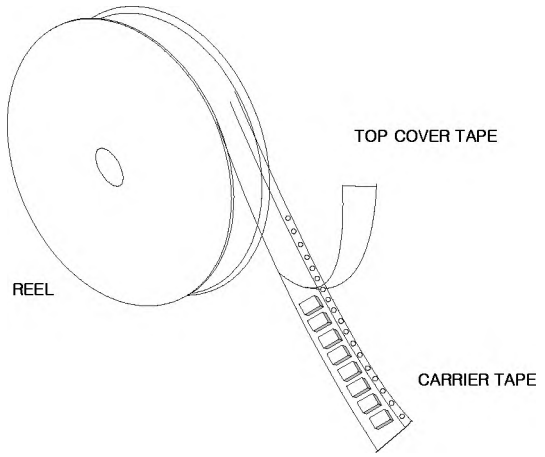
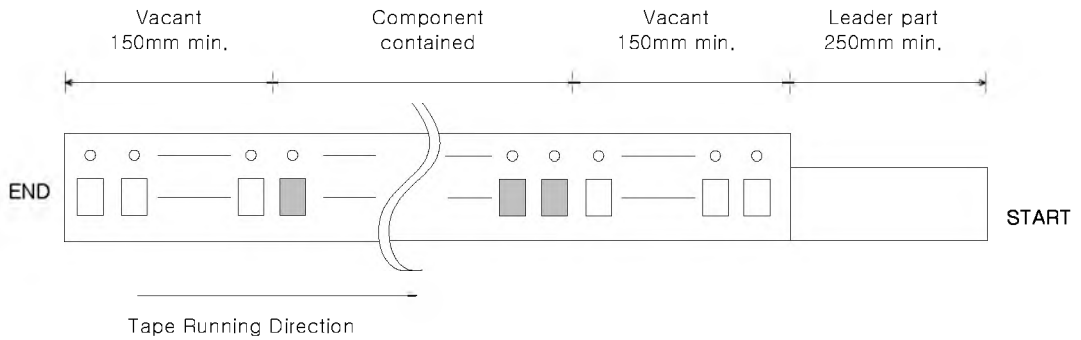
Packing Specification

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

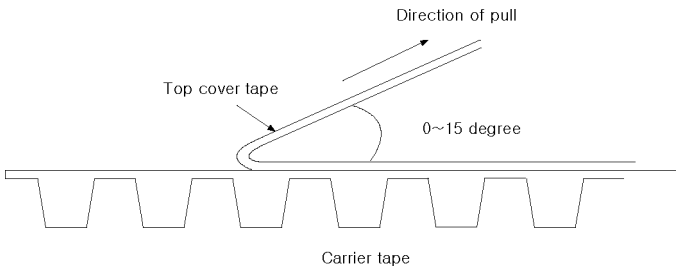
   4.4N/mm width

3. Top cover tape adhesion

   1) pull off angle : 0~15°

   2) speed : 300mm/min

   3) force : 20~70g



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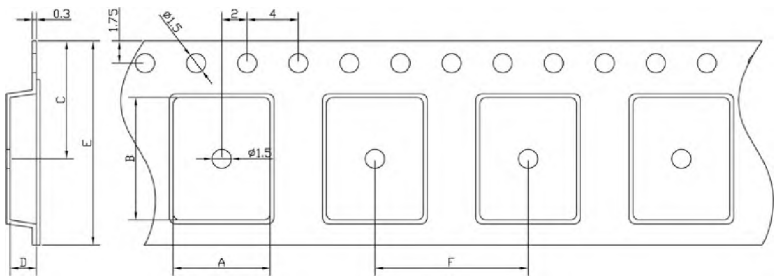
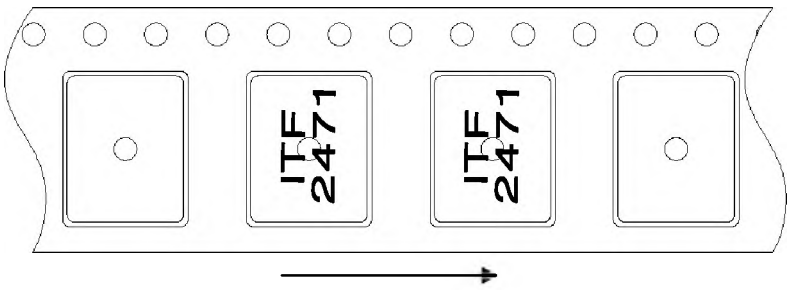
Carrier Tape Dimensions [unit : mm]



A	4.30 ± 0.1
B	4.30 ± 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]