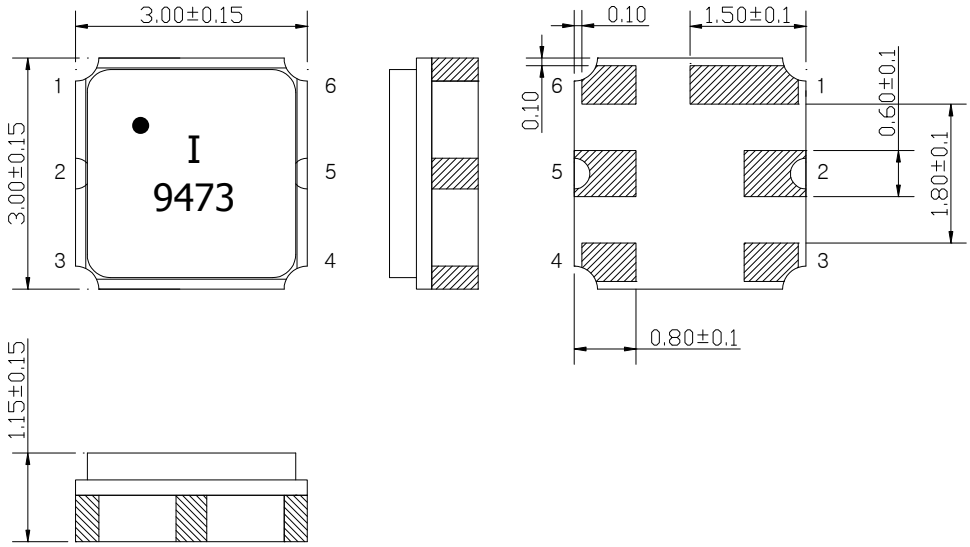
SAW Bandpass Filter F9473

Features

- GSM applications
- Usable bandwidth of 25 MHz
- No impedance matching require for operation at 50 Ω
- Ceramic Surface Mounted Device Package (3.0 mm * 3.0 mm)
- Single-ended Operation
- 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 Configurations	
2	Input
5	Output
1, 3, 4, 6	Case ground

Maximum Ratings

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

Electrostatics Sensitive Device (**ESD**)

SAW Bandpass Filter F9473

Specifications

	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	947.5	-	MHz
Insertion Loss (In Fc +/- 12.5 MHz)	-	2.4	3.0	dB
Amplitude Ripple (In Fc +/- 12.5 MHz)	-	1.0	2.0	dBp-p
VSWR (In Fc +/- 12.5 MHz)	-	1.9	2.5	
Relative Attenuation DC ~ 890.0 MHz 890.0 MHz ~ 915.0 MHz 980.0 MHz ~ 1025.0 MHz 1025.0 MHz ~ 2000.0 MHz	 28.0 20.0 15.0 30.0	 32.0 35.0 30.0 34.5	 - - - -	dB
Temperature Range (Operational)	-30	25	85	℃
Input RF Power (In Fc +/- 12.5 MHz)			10	dBm
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.

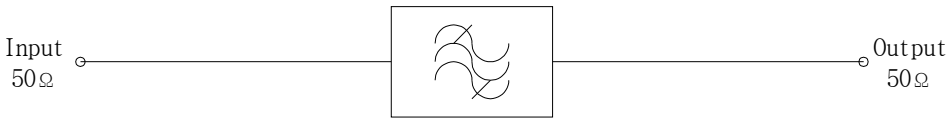
2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances

3) All attenuation measurements are measured relative to insertion loss

SAW Bandpass Filter F9473

Matching Schematic

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



Marking Configuration

● [1]

I[2]

9473[3]

1) Pad Number 1 Index

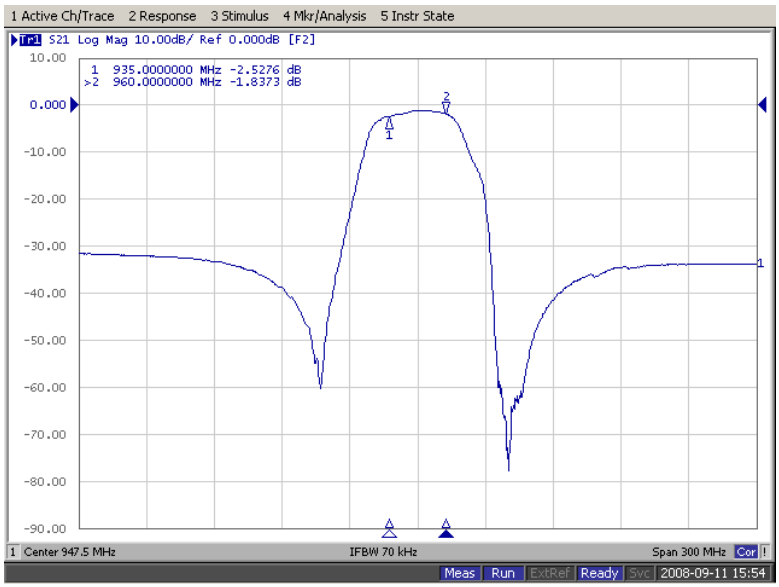
2) Manufacturer name

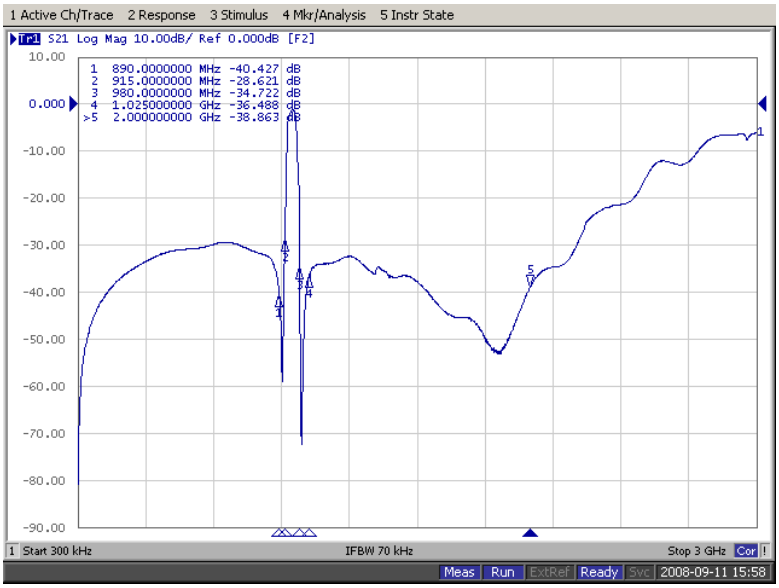
3) Marking Number

* Ink or Laser Marking available

SAW Bandpass Filter F9473

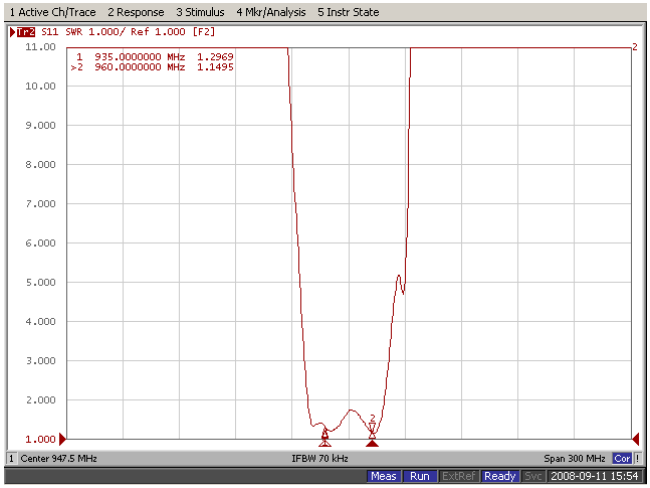
Typical Performance (at 25℃)

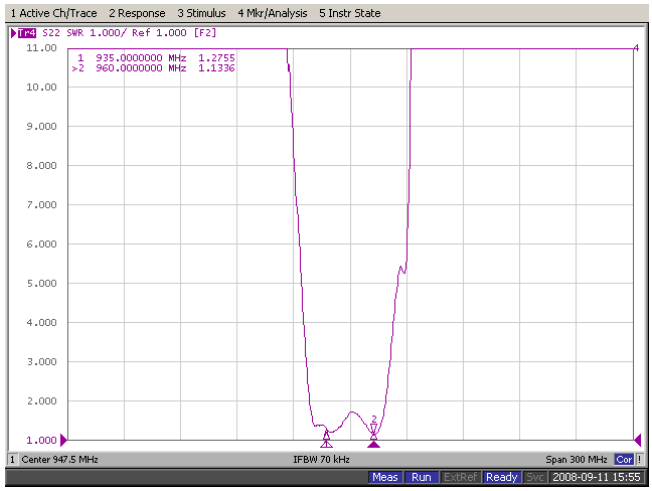




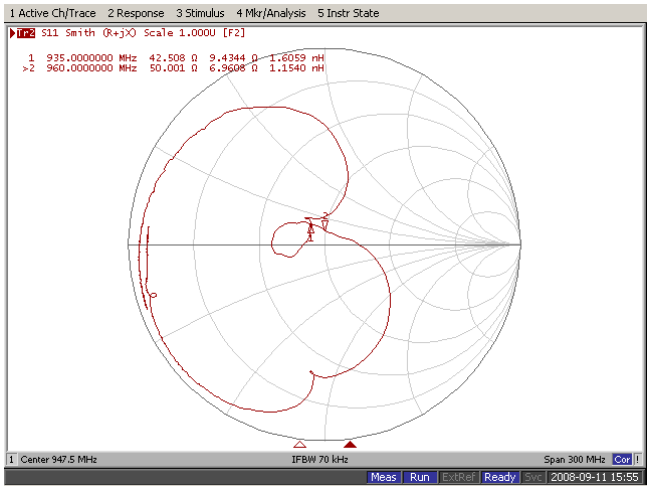
SAW Bandpass Filter F9473

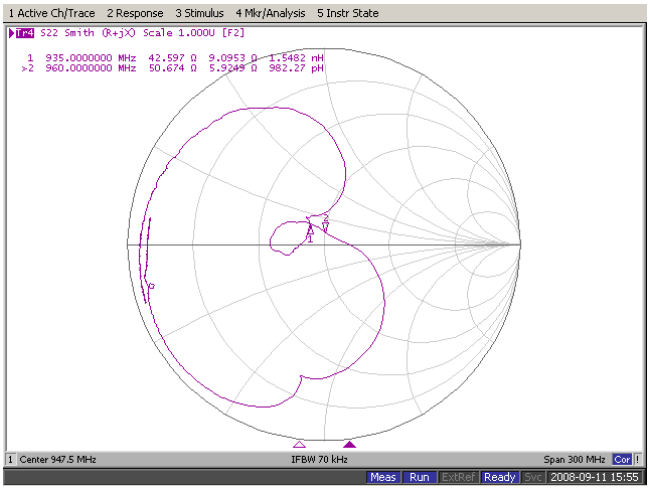
Input / Output VSWR Charts





Input / Output Smith Charts

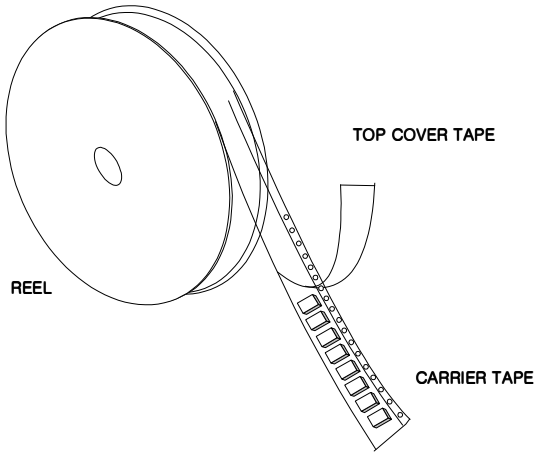




SAW Bandpass Filter F9473

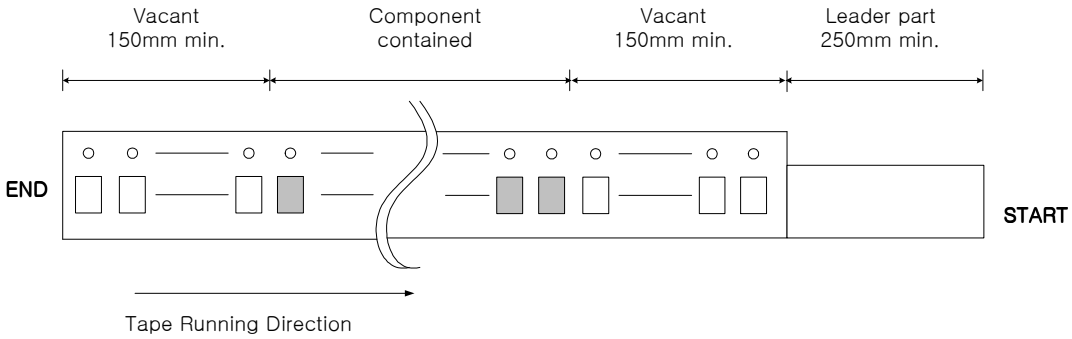
Packing Specification

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

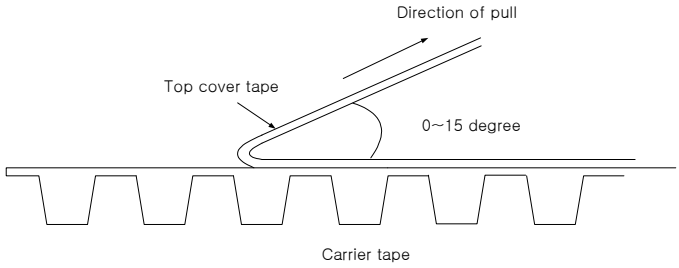


2. Tensile strength of carrier tape

4.4N/mm width

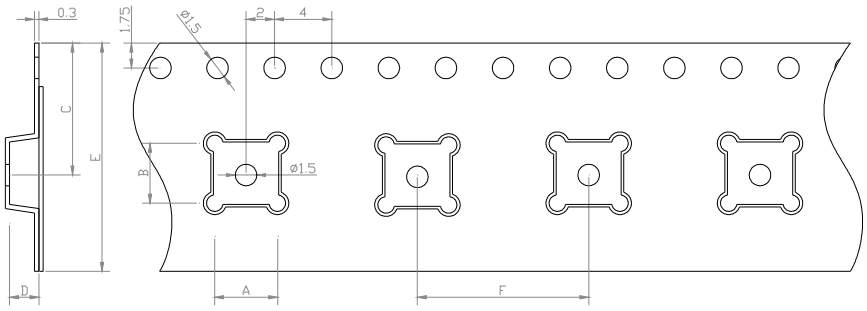
3. Top cover tape adhesion

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



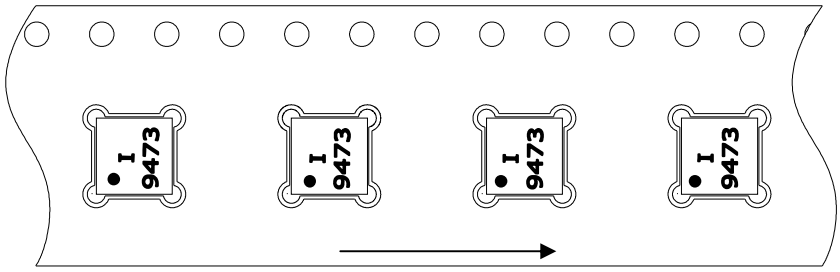
SAW Bandpass Filter F9473

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



Tape Running Direction

Reel Dimensions [unit : mm]

