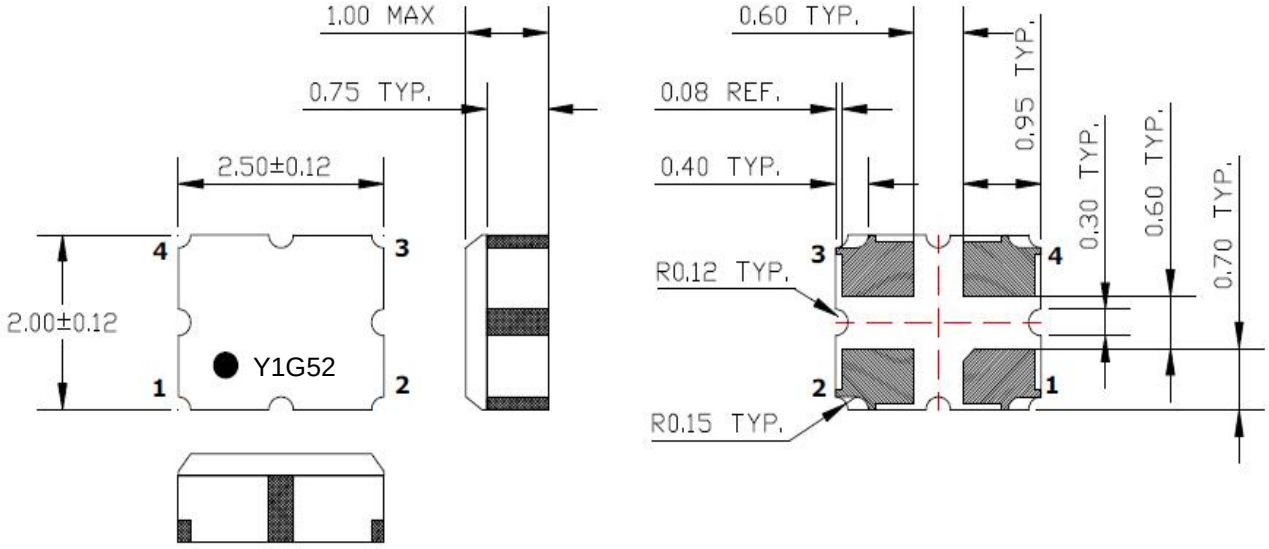
1575,42 MHz SAW Bandpass Filter KX-SF

Part no. 12.98600

Features

- GPS applications
- Usable bandwidth of 2 MHz
- No impedance matching require for operation at 50 Ω
- SMD Package 2.5 mm × 2.0 mm× 1.0 mm
- Single-ended Operation

Package Dimensions



Dimensions shown are nominal in millimeters

Body : Al_2O_3 Ceramic
Lid : Kovar, Ni Plated
Terminations : Au plating 0.5 ~ 1.0 um, Over a 2.0 ~ 6.0 um
Ni Plating

Pin Configuration	
1	Input
3	Output
2, 4	Ground

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	25	95
Storage Temperature Range	°C	-40	-	105
Power Handling Capability	dBm	-	10	-

Electrostatics Sensitive Device (**ESD**)

According to RoHS 2011/65/EU

Specifications

Fc =1575.42MHz

Terminating source impedance : 50Ω

Terminating load impedance : 50Ω

		Minimum	Typical	Maximum
Center Frequency	MHz	-	1575.42	-
Insertion Loss (Fo +/- 1 MHz)	dB	-	1.5	2.2
Amplitude Ripple (Fo +/- 1 MHz)	dB p-p	-	0.1	1.0
Relative Attenuation				
D.C. ~ 1400 MHz	dB	35.0	37.0	-
1400 ~ 1475 MHz		30.0	34.0	-
1475 ~ 1525 MHz		25.0	37.0	-
1625 ~ 1640 MHz		30.0	45.0	-
1640 ~ 2000 MHz		32.0	34.0	-
2000 ~ 3000 MHz		20.0	28.0	-
VSWR (1574.42 ~ 1576.42 MHz)	-	-	1.2	2.0

Notes :

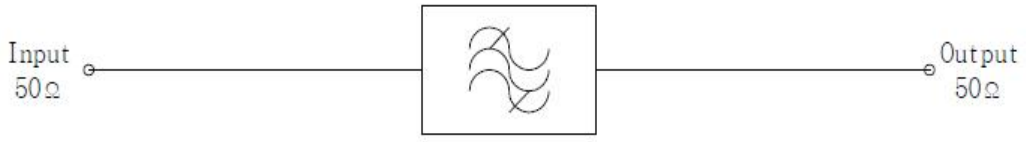
1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.

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

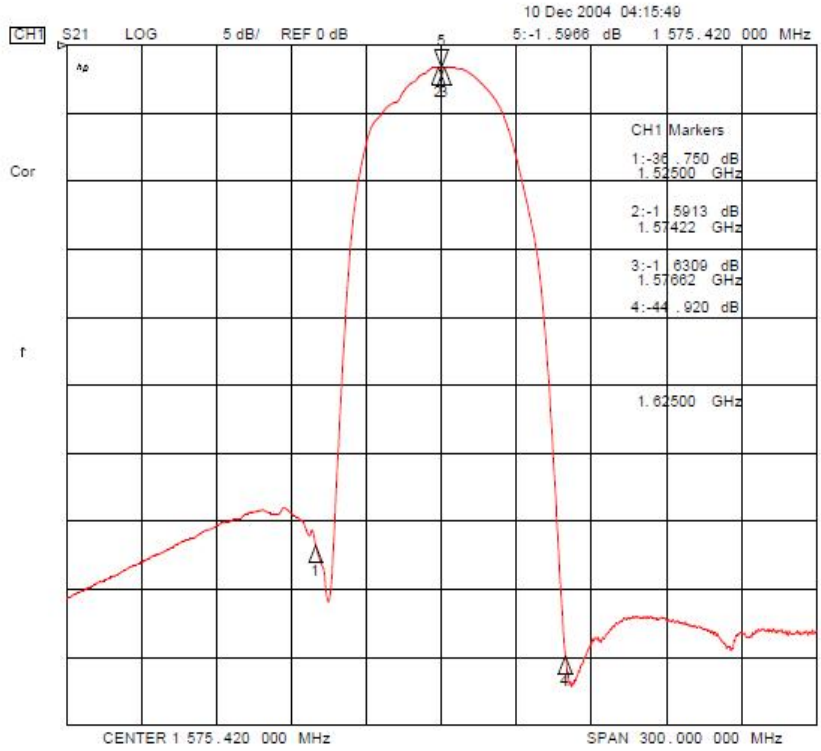
3) All attenuation measurements are measured relative to insertion loss

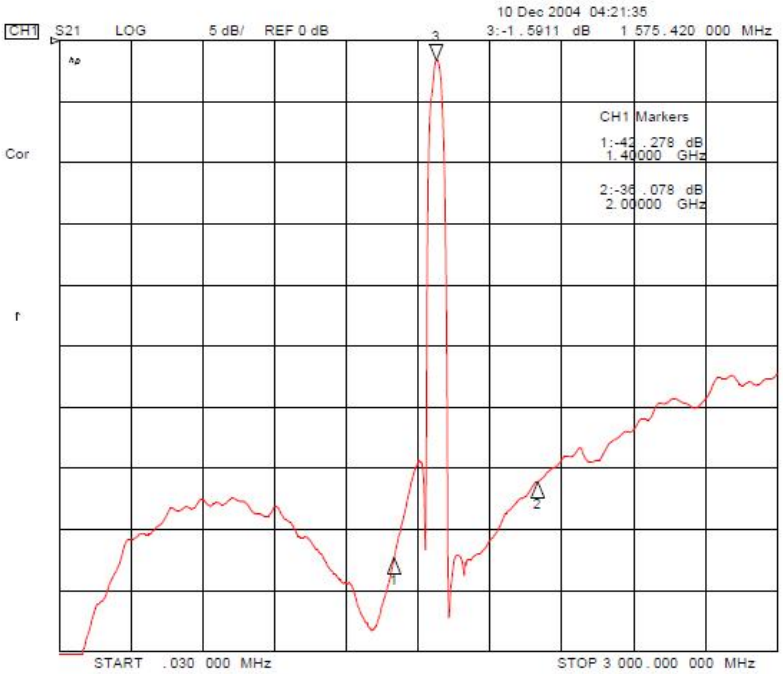
Matching Schematic

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

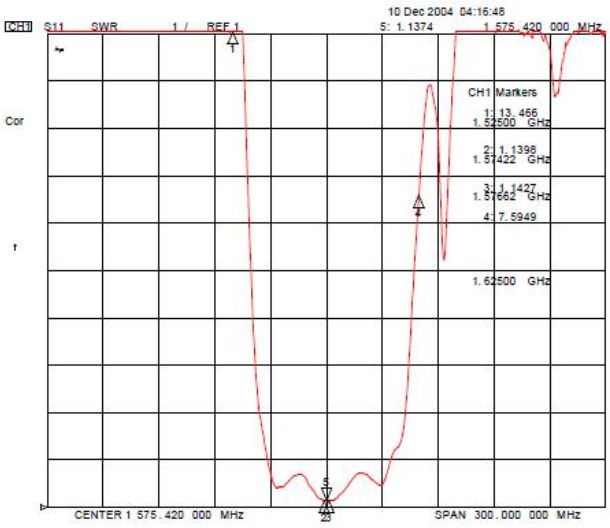


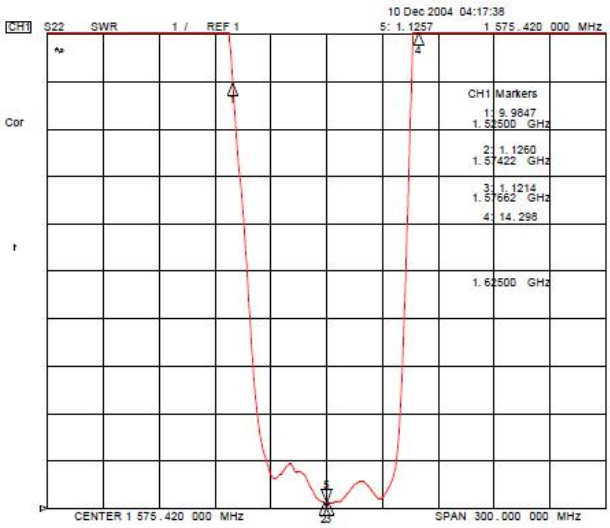
Typical Performance (at 25℃)



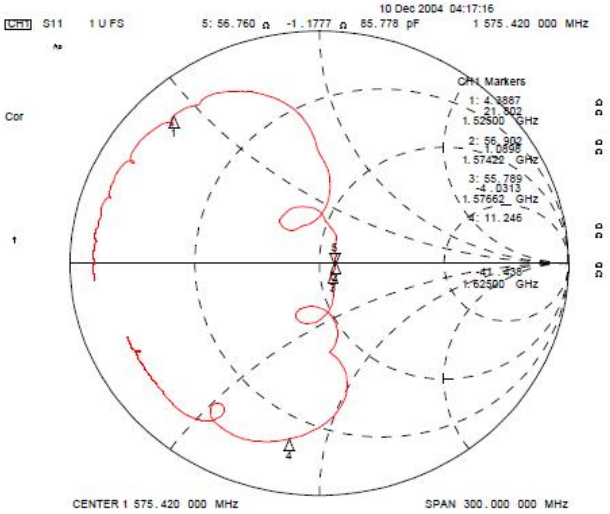


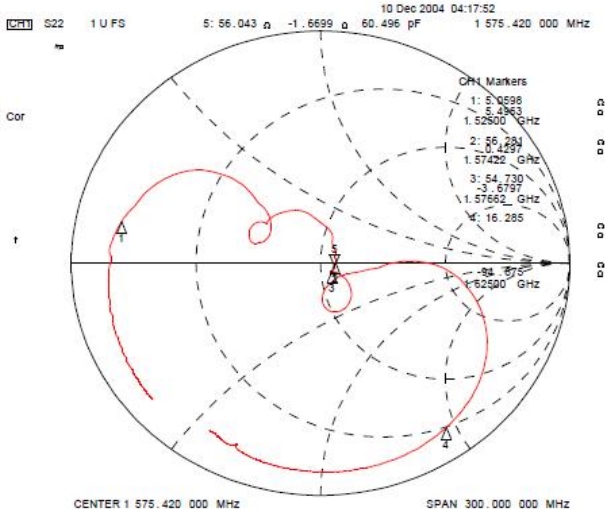
Input / Output VSWR Charts





Input / Output Smith Charts

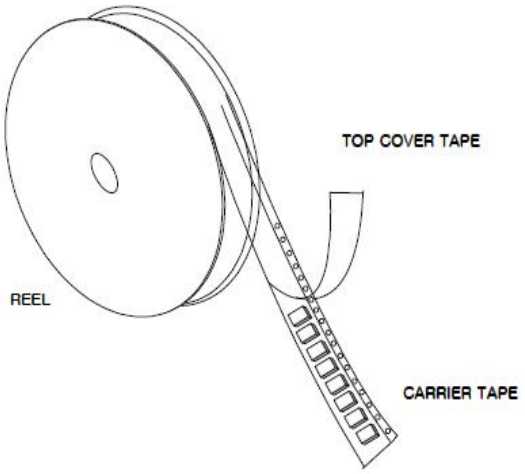




Packing Specification

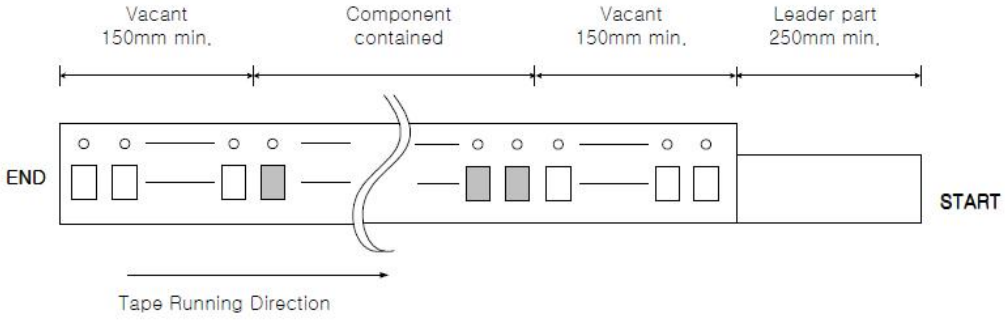
1. Reeling Quantity : 3,000 pcs / reel (or 1,000 pcs / reel, 2,000 pcs / reel)

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

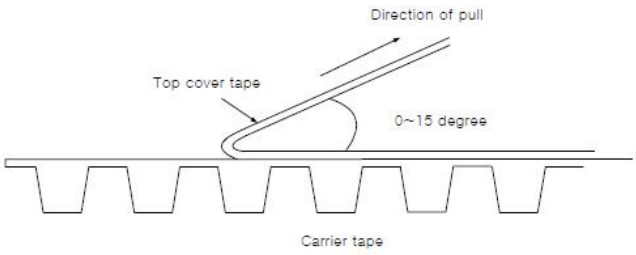
4.4N/mm width

3. Top cover tape adhesion

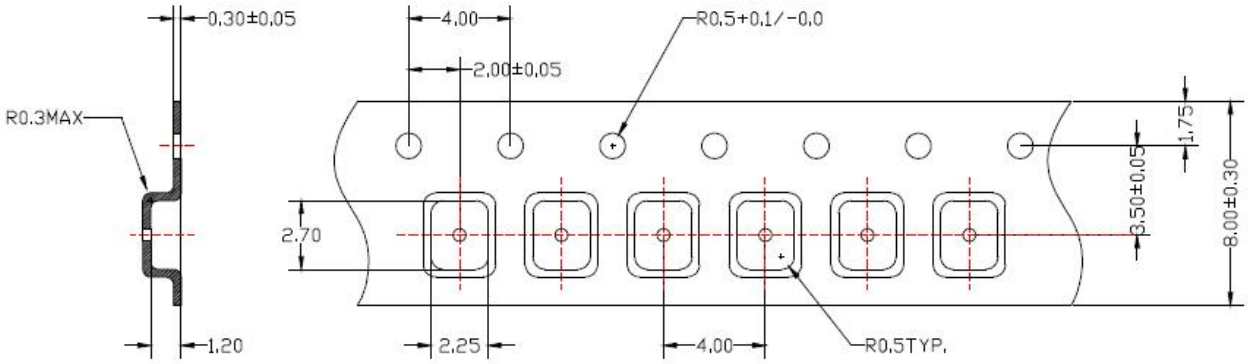
1) pull off angle : 0~15°

2) speed : 300mm/min

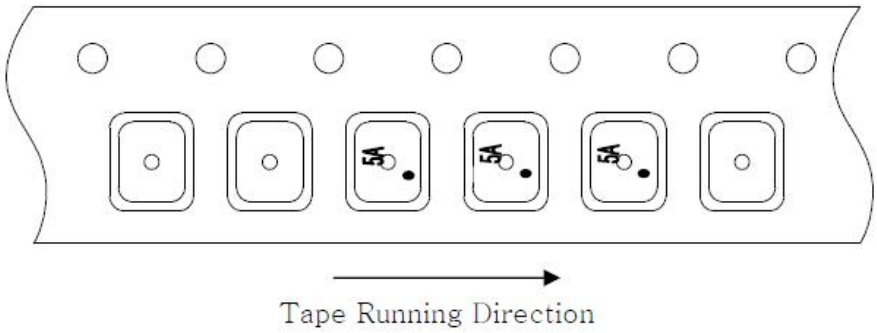
3) force : 20~70g



Carrier Tape Dimensions [unit : mm]



Part Direction



Reel Dimensions [unit : mm]