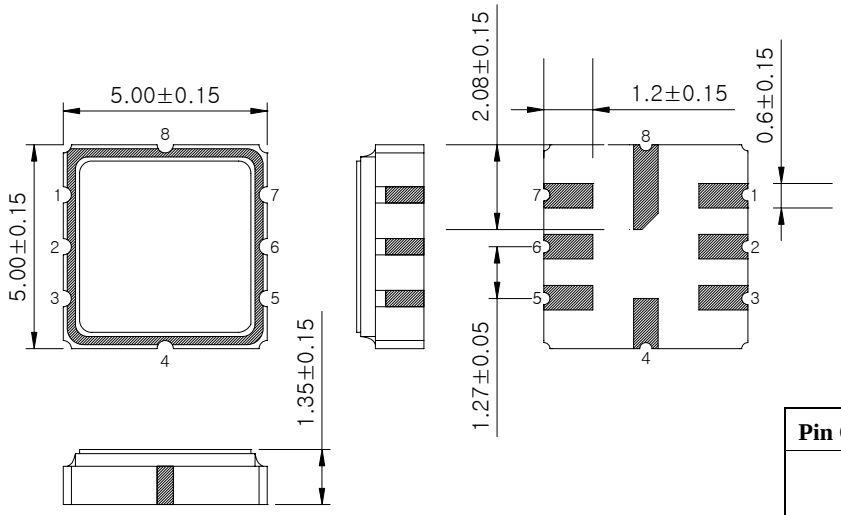
SAW Resonator R43171

Features

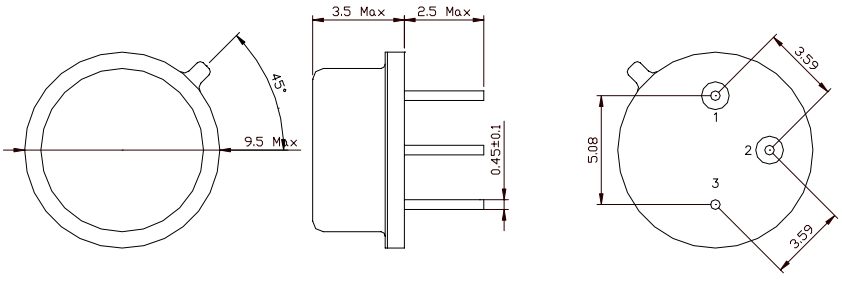
- 1-port Resonator
- Quartz Frequency Stabilization
- For transmitters or Local Oscillators

Package Dimension – S5050



Pin Configuration	
2	Input
6	Output
1, 3, 4, 5, 7, 8	Ground

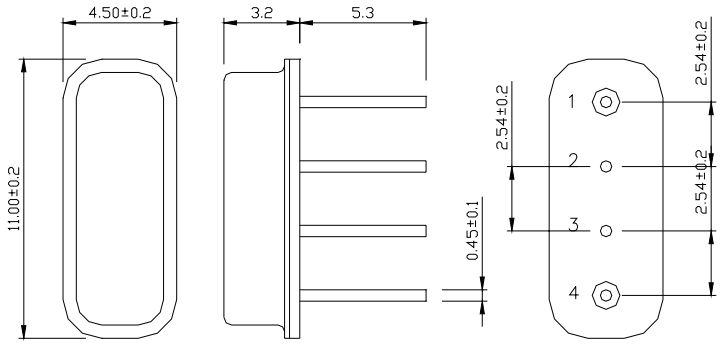
Package Dimension – TO-39



Pin Configuration	
1	Input
2	Output
3	Case ground

SAW Resonator R43171

Package Dimension – F-11



Pin Configuration	
1	Input
4	Output
2, 3	Case ground

Marking Configuration

ITF[1)]

43171[2)]

1) Manufacturer name

2) Marking Number

* Ink or Laser Marking available

* Front 4 digits for S5050

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-10	25	60
Storage Temperature Range	°C	-40	-	85
Power Handling Capability	dBm	-	0	-

Electrostatics Sensitive Device (**ESD**)

SAW Resonator R43171

Electrical Specification

F_R = 431.705MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Resonance Frequency (F_R)	MHz	431.630	431.705	431.780
Insertion Loss	dB	-	1.5	2.5
50 ohm Loaded Q Unloaded Q			2,000 13,900	
Trun-over Temperature	°C	10	25	40
Temperature Coefficient of Frequency	ppm/°C^2	-	-0.032	-

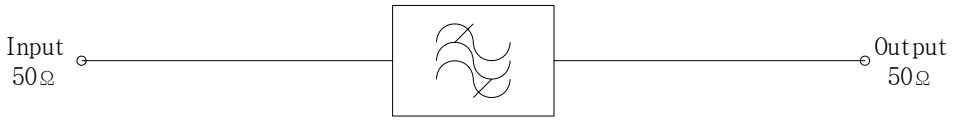
Notes :

1) All specifications are based on the matching schematic shown below

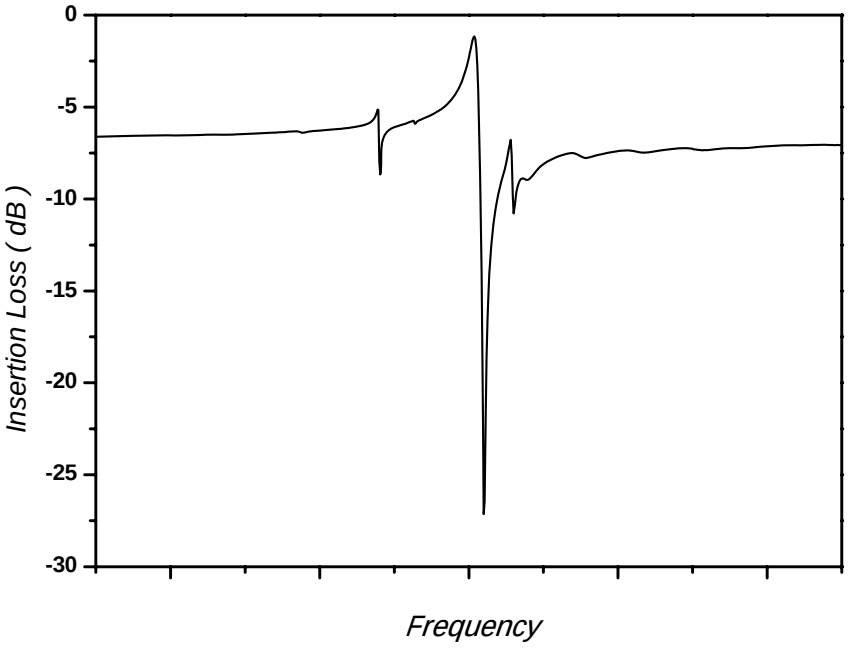
2) All specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature

Matching Schematic

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



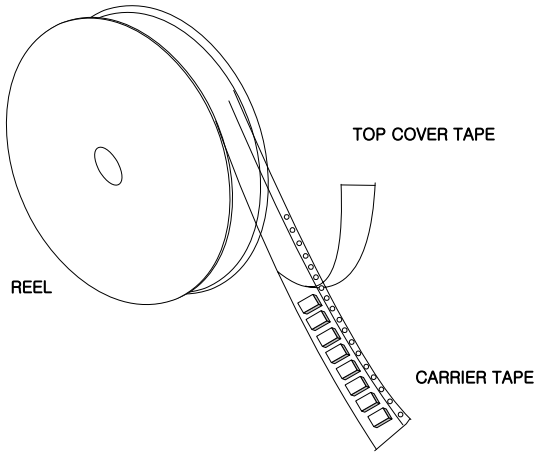
Frequency Response



Packing Specification

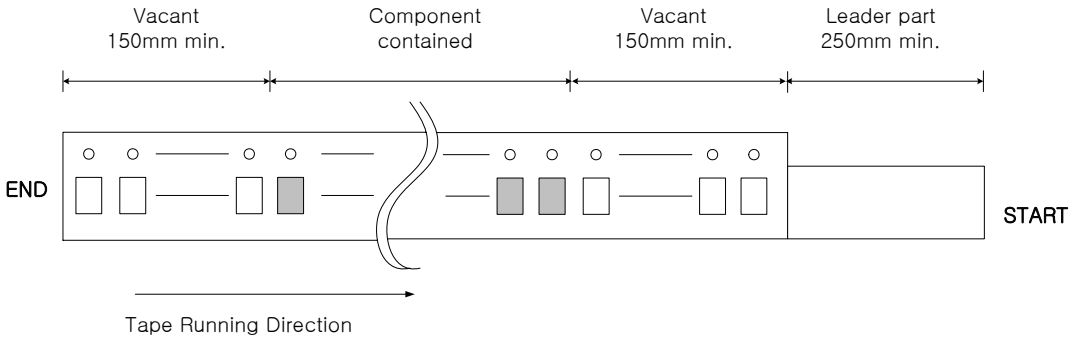
1. Reeling Quantity : 1000 pcs / reel

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

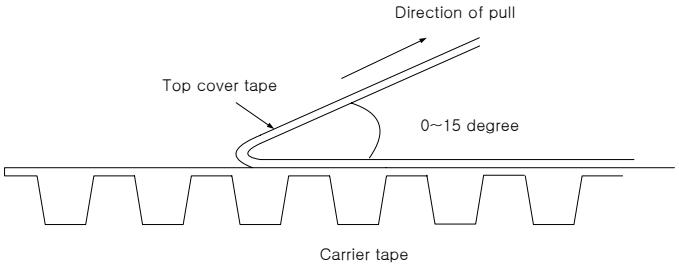
4.4N/mm width

3. Top cover tape adhesion

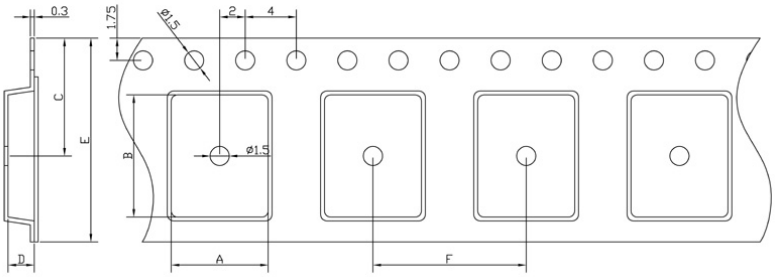
1) pull off angle : 0~15°

2) speed : 300mm/min

3) force : 20~70g

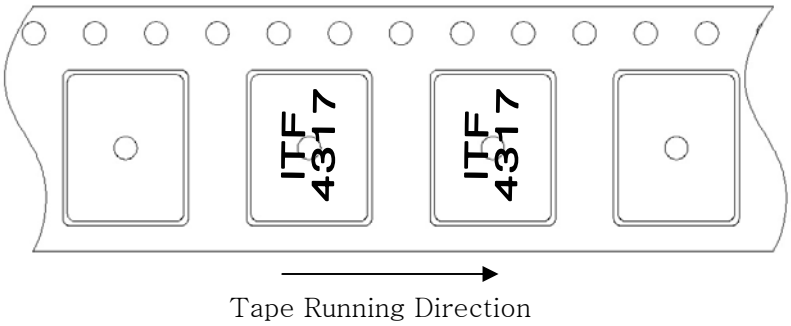


Carrier Tape Dimensions [unit : mm]



A	5.50 ± 0.1
B	5.50 ± 0.1
C	7.25 ± 0.1
D	1.95 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]

