



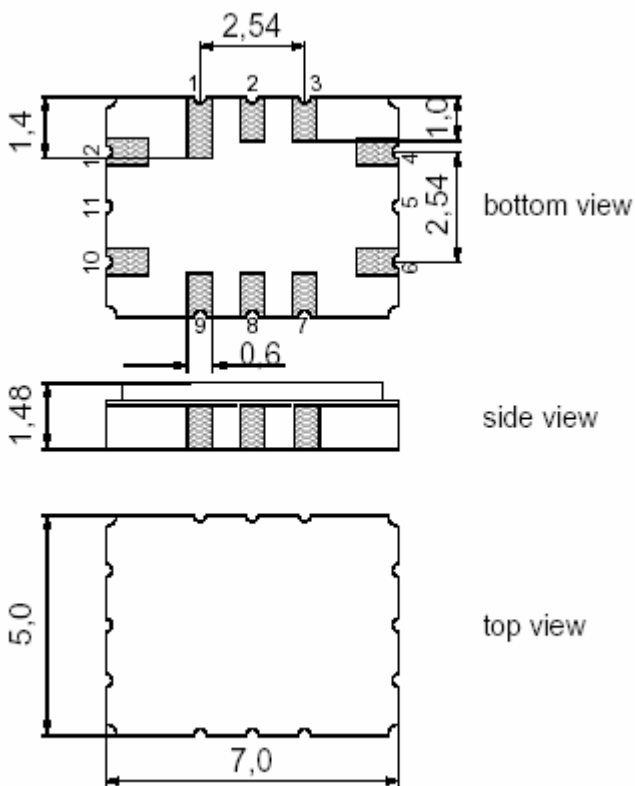
LBT17201 MHz SAW Filter Electrical Characteristic

Features

- For IF applications
- Low loss
- High attenuation
- Single-ended or Balanced operation
- Ceramic Surface Mount Package (SMP)
- Small size

Package

Pin Configuration



Surface Mount 7.01 x 5.0 x 1.48 mm :

- | | |
|---------|----------------------------------|
| 12 | Input |
| 6 | Output |
| 10 | Balanced input or input ground |
| 4 | Balanced output or output ground |
| 3,9 | Case ground |
| 1,2,7,8 | Not connected |

Dimensions shown are nominal in millimeters

All tolerances are +/-0.15mm except overall
length and width +/-0.13mm

Body: Al_2O_3 eramic

Lid: Kovar, Ni plated

Terminations: Au plating 0.5-1.0 μ m,
over a 2-6 μ m Ni plating



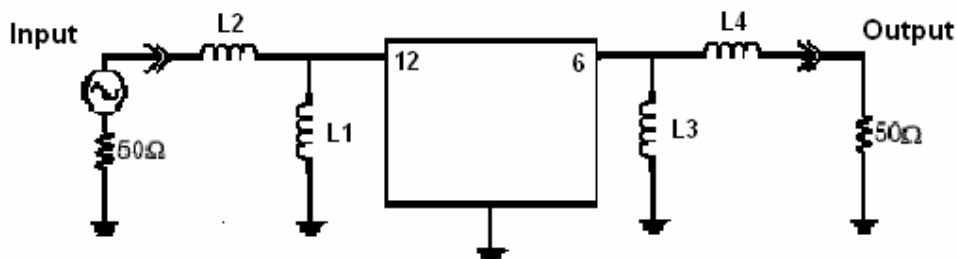
Electrical Specifications				
Parameter	Unit	Minimum	Typical	Maximum
Center Frequency, f_0	MHz	-	172.8	-
Insertion Loss at 172.8 MHz	dB	-	17.2	20
Amplitude Variation $f_0 \pm 4.42 \text{ MHz}$	dB p-p	-	0.8	1.5
Group Delay Variation $f_0 \pm 4.42 \text{ MHz}$	nsec	-	80	200
VSWR $f_0 \pm 4.42 \text{ MHz}$		-	1.3:1	-
Phase ripple $f_0 \pm 4.42 \text{ MHz}$	degree	-	10	-
1.5dB bandwidth	MHz	8.84	9.31	-
Rejection (relative to IL)				
$f_0 \pm 7.5 \text{ MHz} \dots f_0 \pm 10 \text{ MHz}$	dB	35	40	-
$f_0 \pm 10 \text{ MHz} \dots f_0 \pm 20 \text{ MHz}$	dB	30	35	-
$f_0 \pm 20 \text{ MHz} \dots f_0 \pm 50 \text{ MHz}$	dB	45	48	-
$f_0 \pm 50 \text{ MHz} \dots f_0 \pm 100 \text{ MHz}$	dB	45	50	-
Operating Temperature Range	$^{\circ}\text{C}$	-30 to +85 $^{\circ}\text{C}$		

Notes:

1. All specifications are based on the test circuit shown below
2. Electrical margin has been built into the design to account for the variations due to manufacturing tolerances
3. Relative to Insertion loss at 172.8 MHz
4. This specification is valid for room temperature only

Matching Schematic

Actual matching values may vary due to PCB layout and parasitics



L1=56nH L3=33nH
L2=L4=68nH



Typical Performance (at +25oC)

