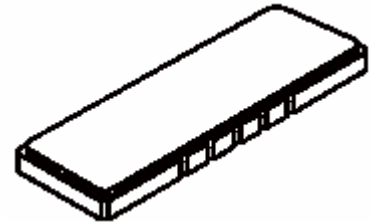




LBT15006 MHz SAW Filter Electrical Characteristic

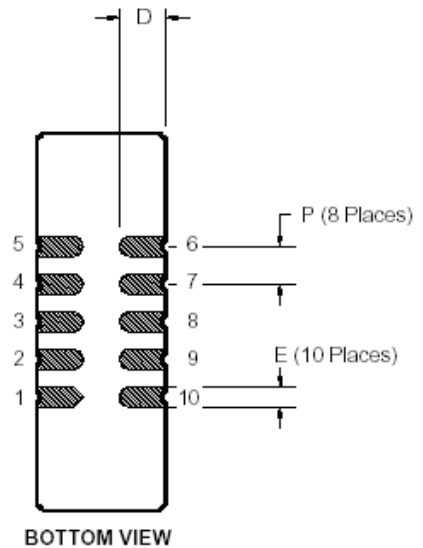
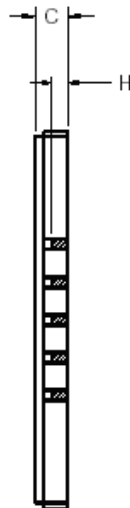
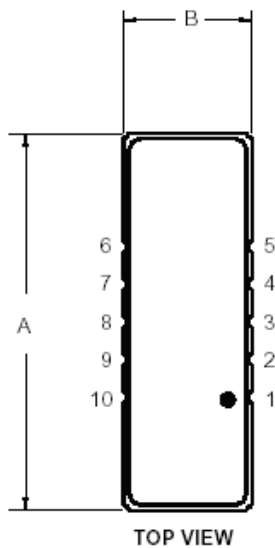
Features

- For broadband applications
- Typical 3dB bandwidth of 6.0 MHz
- High attenuation
- Single-ended operation
- Ceramic Surface Mount Package (SMP)
- Small size



Package

Pin Configuration



Case Dimension

Dimension	mm		
	Min	Nom	Max
A	18.80	19.00	19.30
B	6.30	6.50	6.80
C		1.80	2.00
D		2.29	
E		1.02	
H		1.0	
P		1.905	



Electrical Specifications

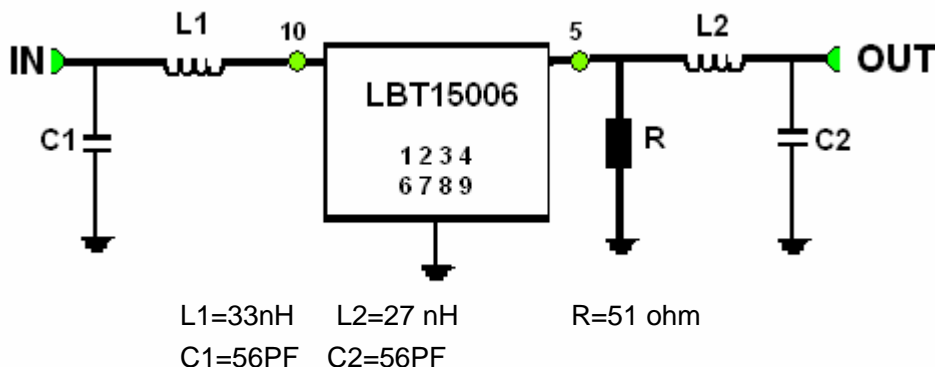
Electrical Parameter	Unit	Minimum	Typical	Maximum
Source Impedance (1)		-	50	-
Load Impedance (1)		-	50	-
Center Frequency	MHz	149.925	150.025	150.125
Bandwidth at -1 dB	MHz	5.6	5.677	-
Bandwidth at -3 dB	MHz	6.0	6.19	-
Bandwidth at -40 dB	MHz	-	8.129	8.2
Attenuation from 10 MHz to 135 MHz	dB	45	55	-
Attenuation from 165 MHz to 1GHz	dB	45	50	-
Minimum Insertion Loss (1)	dB		20	22
Amplitude Variation (over 5.6 MHz bandwidth) (2)	dB	-	0.33	0.8
Group Delay Variation (over 5.6 MHz bandwidth) (3)	ns	-	100	150
Input/Output VSWR			1.45	1.8
Absolute Group Delay at fo	us		1.67	2.1
Maximum Input Level	dBm			20
<i>Package type & size</i>				
Length x Width	mm ²		19X6.5	
Height	mm		1.8	2.1
<i>Pin Out</i>				
input	10	output	5	
Case Ground	1,2,3,4,6,7,8,9			

Notes:

- (1) With external Matching Network.
- (2) The amplitude variation is defined as the maximum level – minimum level over the given bandwidth.
- (3) The group delay variation is defined as the maximum level – minimum level over the given bandwidth.

Matching Schematic

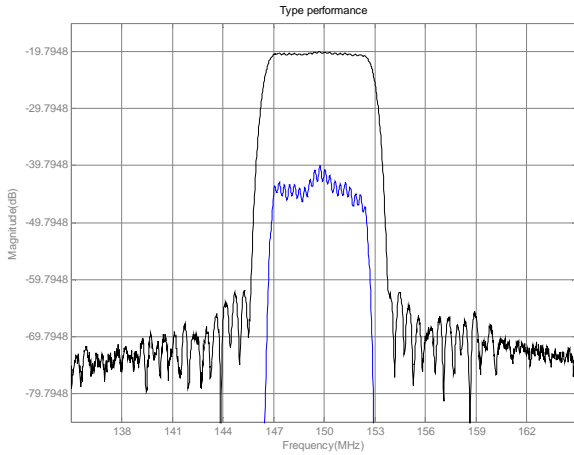
Actual matching values may vary due to PCB layout and parasitics



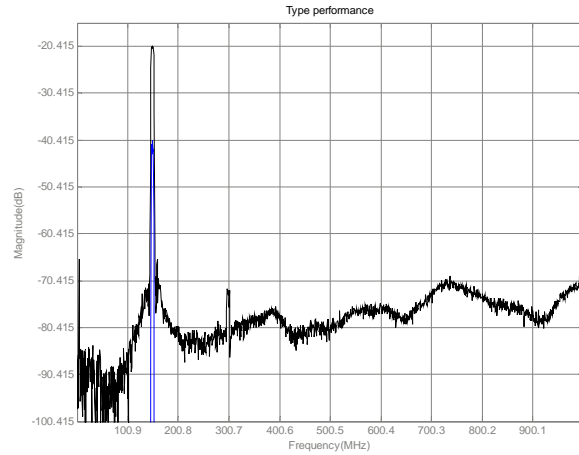


Typical Performance (at +25°C)

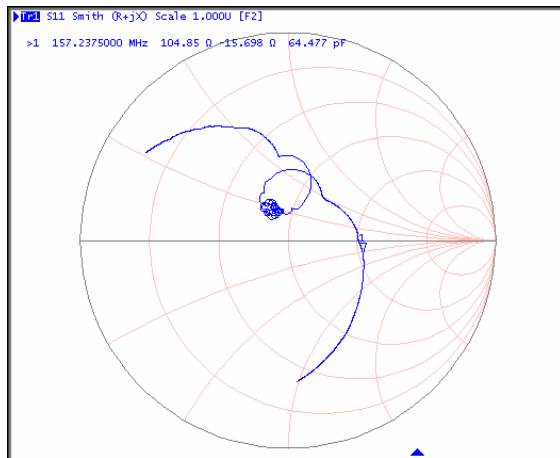
Frequency Response



Wideband Response



Input Smith Chart



Output Smith Chart

