Features

- ✧ For IF SAW filter
- ✧ High attenuation
- ✧ Single-ended operation
- ✧ Dual In-line Package
- ✧ RoHS compliant (2002/95/EC), Pb-free

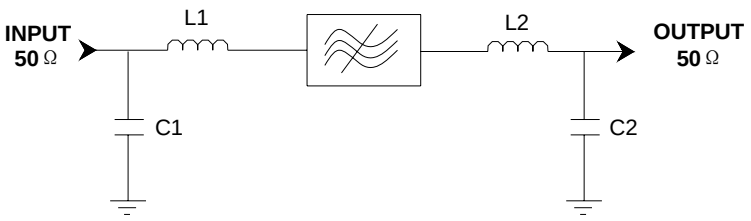
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	249.8	250	250.2
Insertion Loss	dB	-	22.2	25.5
1 dB Bandwidth	MHz	7.3	7.95	-
3 dB Bandwidth	MHz	8	8.41	-
40 dB Bandwidth	MHz	-	10.14	10.6
50 dB Bandwidth	MHz	-	10.3	11
Passband Variation	dB	-	0.8	1
Phase Linearity(f0±4MHz)	deg	-	8	10
Group Delay Variation(f0±4MHz)	nsec	-	50	210
Absolute Delay	usec	-	2.1	-
Ultimate Rejection	dB	50	57	-
Material Temperature coefficient	KHz/°C	-4.5		
Substrate Material	-	112LT		
Ambient Temperature	°C	25		
Operating Temperature Range	°C	-40	-	+85
DC Voltage	V	0		
Input Power	dBm	-	-	10
ESD Class	-	1A		
Package Size	DIP2212 (22.2x12.8x4.7mm3)			

Notes:

1. All specifications are based on the test circuit shown;
2. In production, all specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature;
3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances;
4. This is the optimum impedance in order to achieve the performance show.

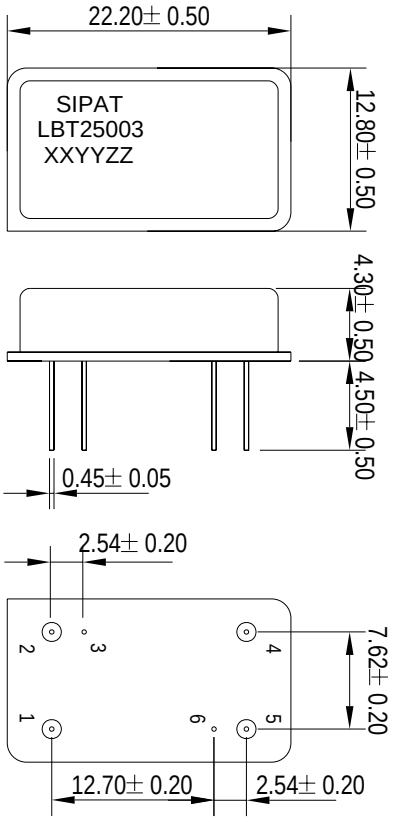
Matching Configuration



L1=5nH L2=10nH
C1=C2=22pF
Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input 1
Output 5
Ground All Others

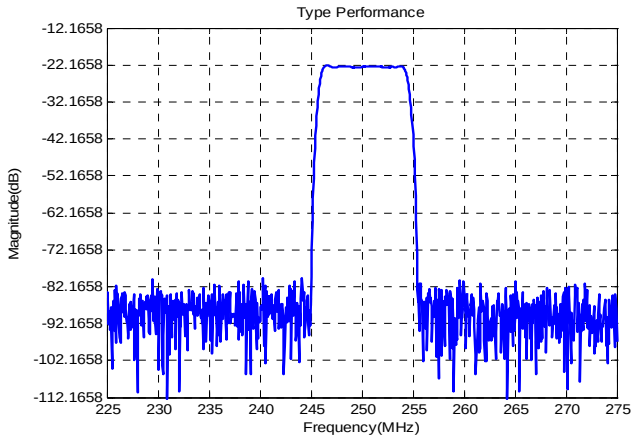
Marking Configuration:

1) SIPAT: Manufacturer Name
2) LBT25003: Part Number
3) XXYY: Date(Year/month)
4) ZZ: Identified Code

Package: DIP2212 **Unit: mm**

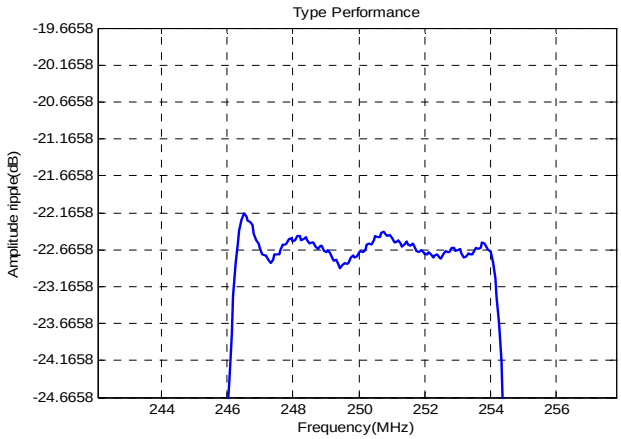
Typical Performance

Frequency Response



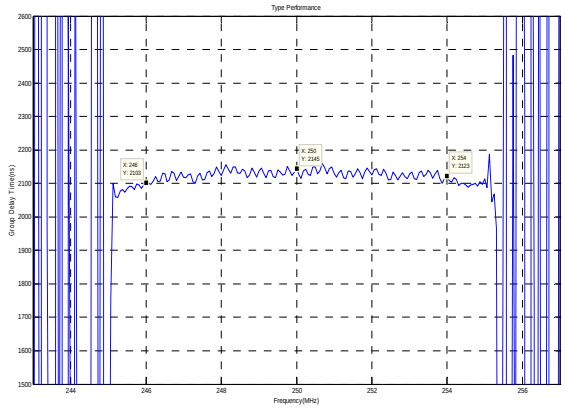
Horizontal: 5MHz/Div Vertical: 10dB/Div

Passband Response



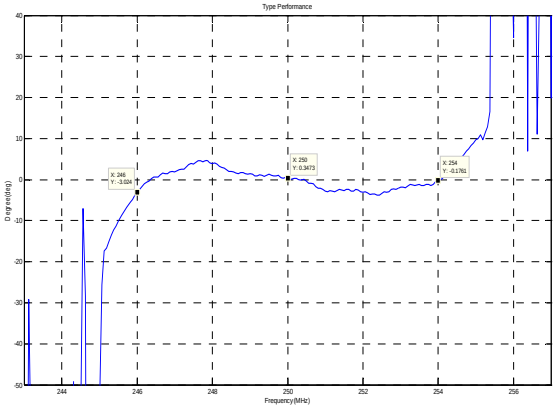
Horizontal: 2MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±4MHz)



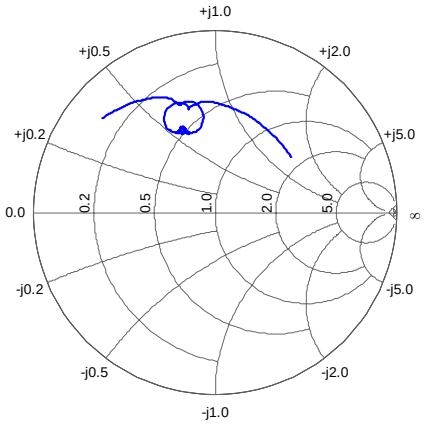
Horizontal: 2MHz/Div Vertical: 100ns/Div

Phase Linearity(f0±4MHz)



Horizontal: 2MHz/Div Vertical: 10deg/Div

Smith Chart S11



Smith Chart S22

