



Features


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

Specifications

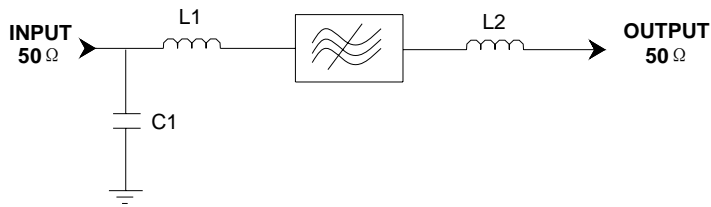
Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	69.91	70	70.09
Insertion Loss	dB	-	24.4	26
1 dB Bandwidth	MHz	4	4.77	-
3 dB Bandwidth	MHz	4.5	5.25	-
40 dB Bandwidth	MHz	-	7.19	7.25
Passband Variation	dB	-	0.3	0.8
Phase Linearity(f0±2MHz)	Deg	-	2	4
Group Delay Variation(f0±2MHz)	nsec	-	50	90
Absolute Delay	usec	-	3	-
Ultimate Rejection	dB	50	61	-
Material Temperature coefficient	KHz/°C	-1.26		
Substrate Material	-	112LT		
Ambient Temperature	°C	25		
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-45	-	+105
DC Voltage	V	0		
Input Power	dBm	-	-	10
ESD Class	-	1		
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.

	SIPAT Co., Ltd. (CETC No.26 Research Institute) #14 Nanping Huayuan Road, Chongqing, China, 400060	Part Number	LBT7030	
		Rev. Date	2007-11-21	
		Ver.	1.1	Page

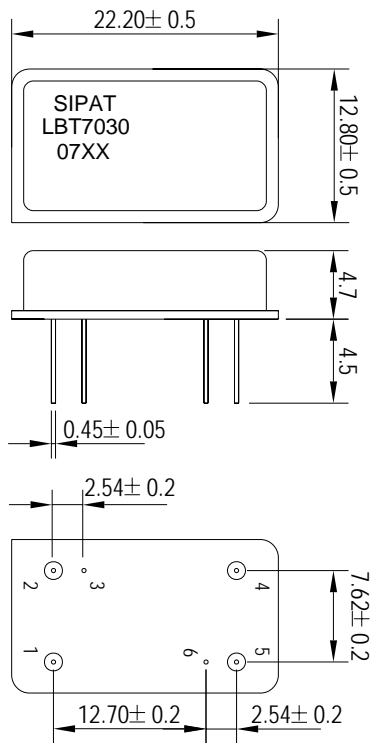
Matching Configuration



L1=L2=150nH
C1=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) LBT7030: Part Number
- 3) 07XX: Date Code

Package: DIP2212

Unit: mm



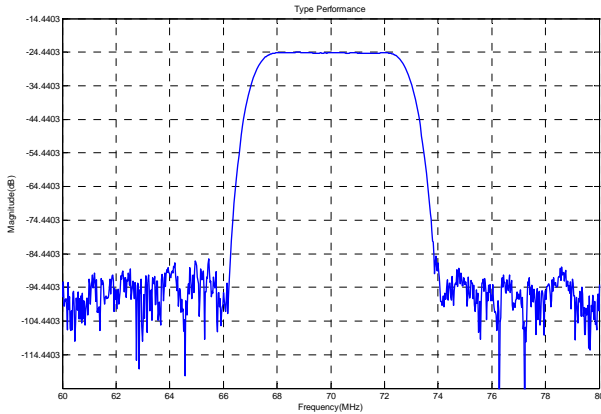
SIPAT Co., Ltd.
(CETC No.26 Research Institute)
#14 Nanping Huayuan Road,
Chongqing, China, 400060

Part Number	LBT7030	
Rev. Date	2007-11-21	
Ver.	1.1	Page 2/3



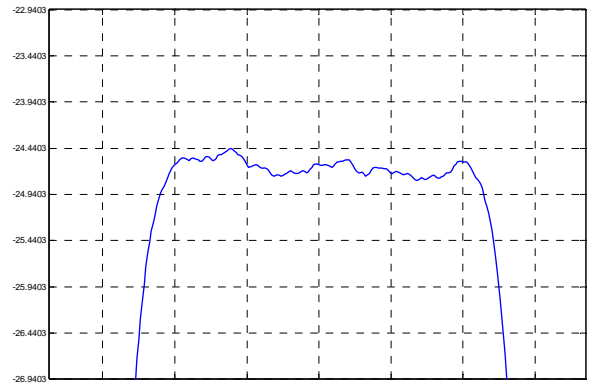
Typical Performance

Frequency Respond



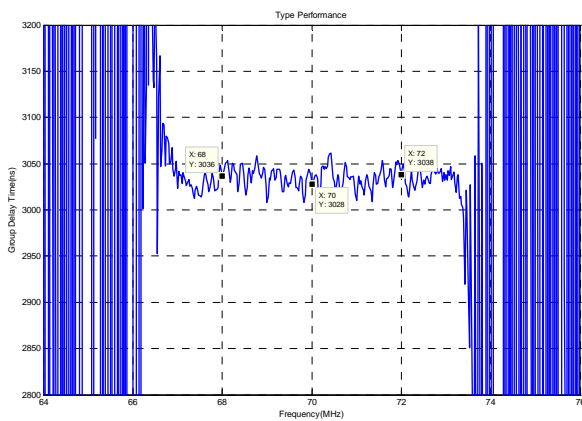
Horizontal: 2MHz/Div Vertical: 10dB/Div

Passband Respond



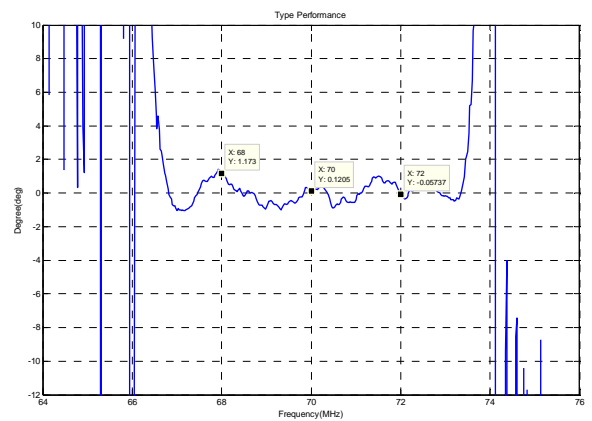
Horizontal: 1MHz/Div Vertical: 0.5dB/Div

Group Delay Variation($f_0 \pm 2\text{MHz}$)



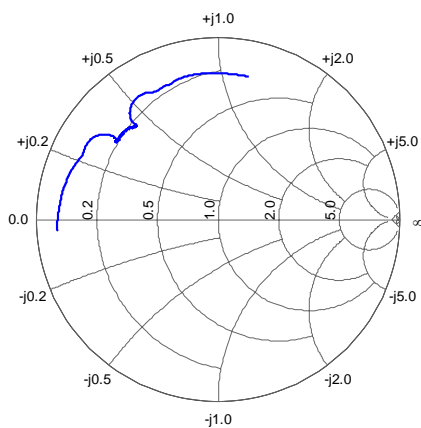
Horizontal: 2MHz/Div Vertical: 50ns/Div

Phase Linearity($f_0 \pm 2\text{MHz}$)

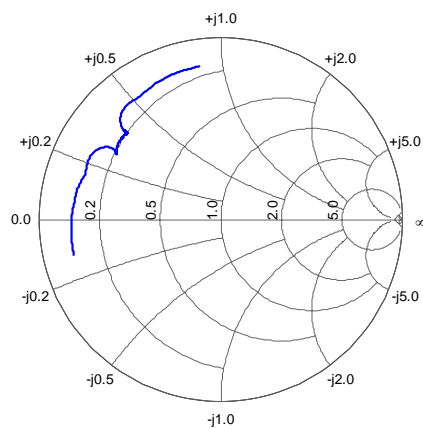


Horizontal: 2MHz/Div Vertical: 2deg/Div

Smith Chart S11



Smith Chart S22



SIPAT Co., Ltd.
(CETC No.26 Research Institute)
#14 Nanping Huayuan Road,
Chongqing, China, 400060

Part Number	LBT7030	
Rev. Date	2007-11-21	
Ver.	1.1	Page 3/3