



Features

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

Specifications

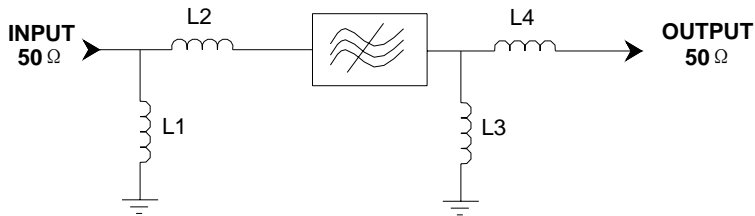
Parameter	Unit	Minimum	Typical	Maximum	
Center Frequency	MHz	69.85	70	70.15	
Insertion Loss	dB	-	27.2	30	
1 dB Bandwidth	MHz	-	7.24	-	
3 dB Bandwidth	MHz	7.4	7.45	-	
40 dB Bandwidth	MHz	-	8.17	-	
Passband Variation	dB	-	0.8	1	
Absolute Delay	usec	-	4.4	-	
Ultimate Rejection	$f_0 \pm 4.1\text{MHz}$	dB	35	40	-
	$f_0 \pm 4.3\text{MHz}$	dB	45	57	-
	$f_0 \pm 4.7\text{MHz}$	dB	50	59	-
	$f_0 \pm 8.7\text{MHz}$	dB	55	61	-
Material Temperature coefficient	KHz/°C	-1.3			
Substrate Material	-	112LT			
Ambient Temperature	°C	25			
DC Voltage	V	0			
Input Power	dBm	-	-	10	
ESD Class	-	1A			
Package Size	DIP3512 (35.0x12.8x4.7mm3)				

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	LBT70A70	
		Rev. Date	2010-09-29	
		Ver.	1.0	Page 1/3

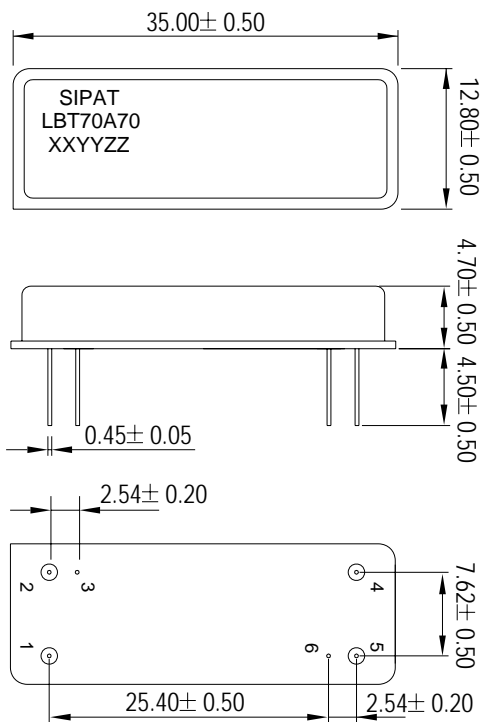
Matching Configuration



L1=82nH L2=33nH
L3=120nH L4=68nH
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) LBT70A70: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

Package: DIP3512

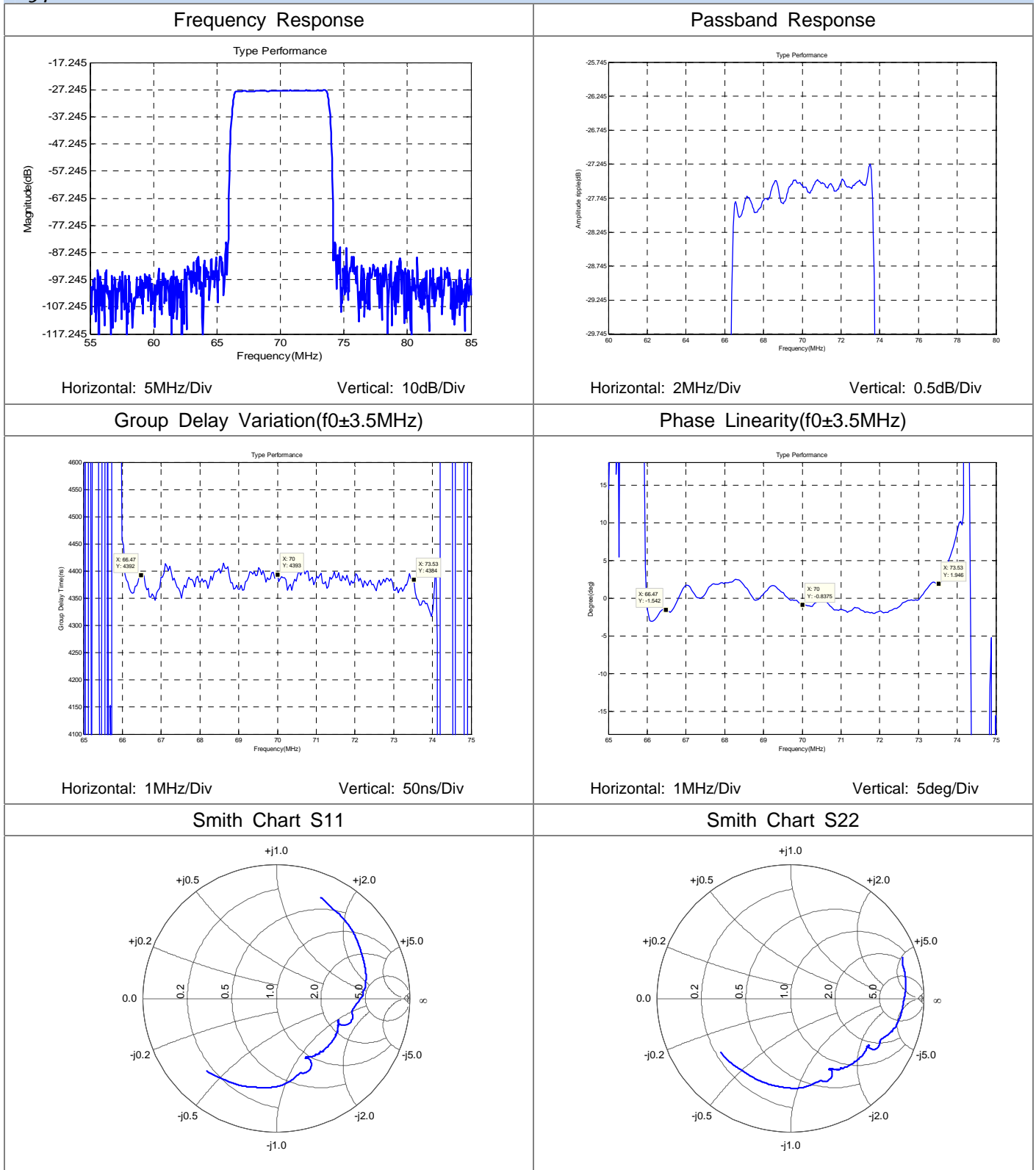
Unit: mm



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

Part Number	LBT70A70	
Rev. Date	2010-09-29	
Ver.	1.0	Page 2/3

Typical Performance



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

Part Number	LBT70A70	
Rev. Date	2010-09-29	
Ver.	1.0	Page 3/3