

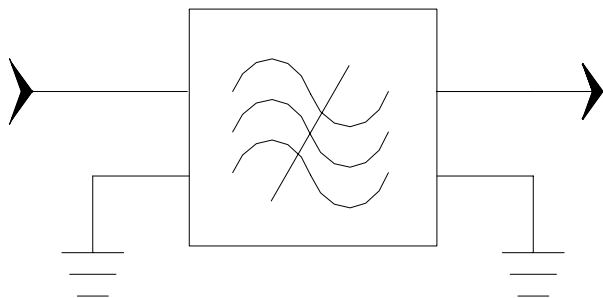
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	69.95	70	70.05
Insertion Loss	dB	-	21.5	24
3 dB Bandwidth	MHz	7.75	7.8	7.86
Selectivity	$F0 \pm (7.8/2+0.4)$ MHz	dBc	35	44
	$F0 \pm (7.8/2+0.6)$ MHz	dBc	45	58
	$F0 \pm (7.8/2+1)$ MHz	dBc	50	68
	$F0 \pm (7.8/2+5)$ MHz	dBc	55	60
Phase Linearity	deg	-	4.1	-
Passband Variation	dB	-	0.6	1.2
Ultimate Rejection($f0 \pm 15$ MHz)	dB	55	60	-
Absolute delay	usec	-	3.75	-
Substrate Material		YZ-LiNbO ₃		
Ambient Temperature	°C	25		
Package Size		DIP3512 (35.0x12.8x4.7mm ³)		

Notes:


1. All specifications are based on the test circuit shown
2. In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over 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 shown

Matching Configuration

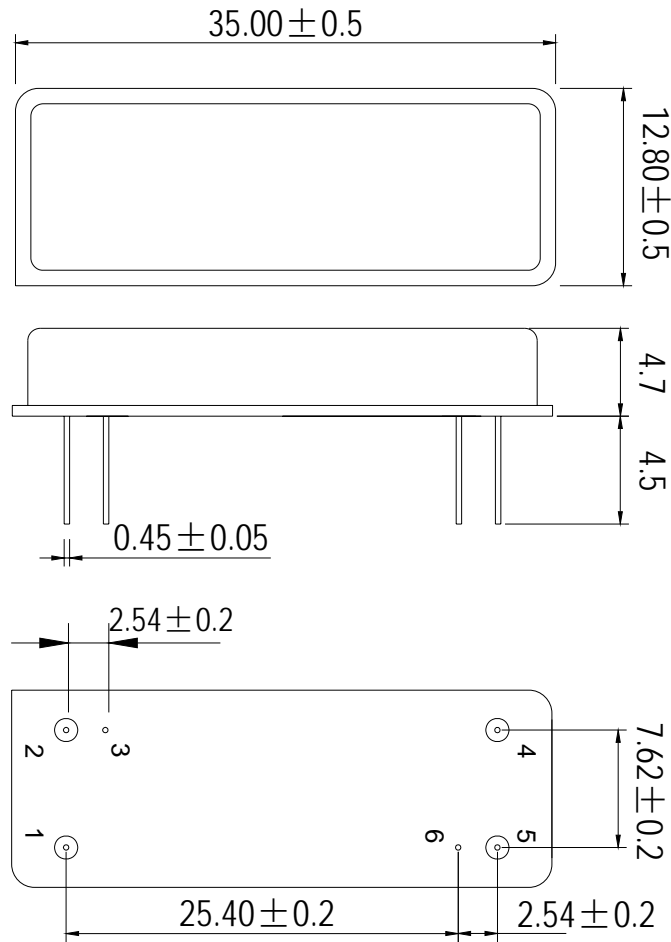


Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

	SIPAT Co., Ltd. (CETC No. 26 Research Institute) Nanping Huayuan Road No. 14 Chongqing, China, 400060	Part Number	LBN07087	
		Rev. Date	2004-12-14	
		Rev.	1.0	Page

Package Dimension

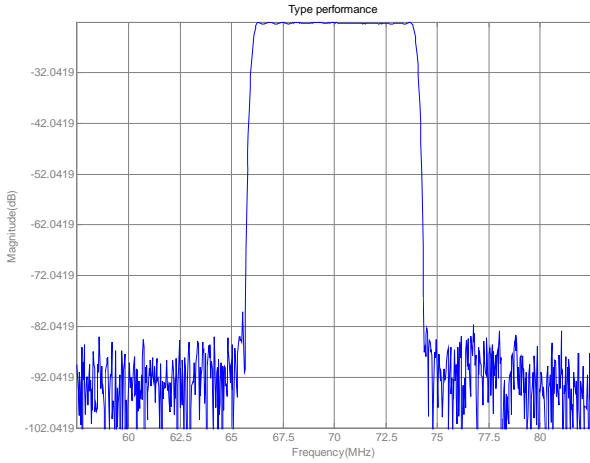


SIPAT Co., Ltd.
(CETC No. 26 Research Institute)
Nanping Huayuan Road No. 14
Chongqing, China, 400060

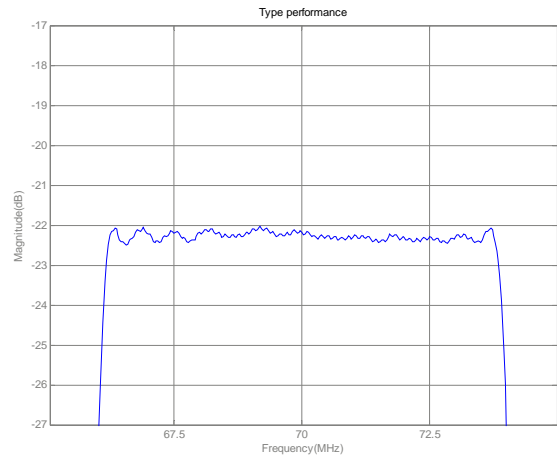
Part Number	LBN07087	
Rev. Date	2004-12-14	
Rev.	1.0	Page 2/4

Typical Performance

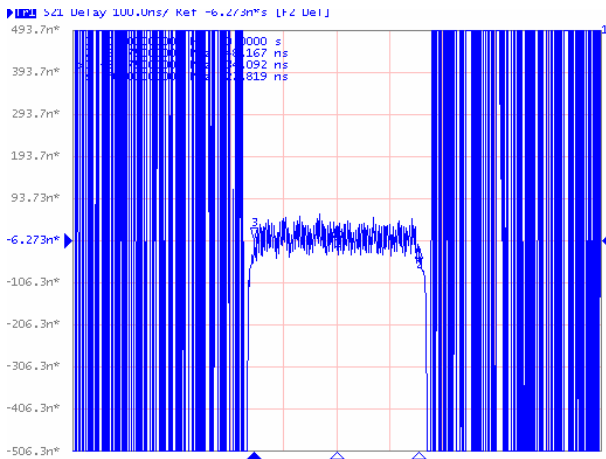
Frequency Respond



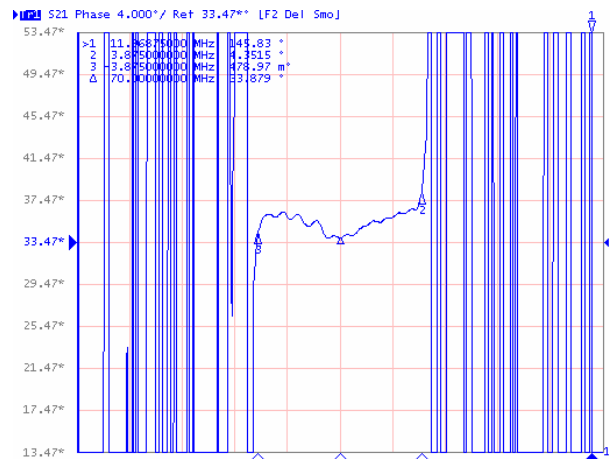
Passband Respond



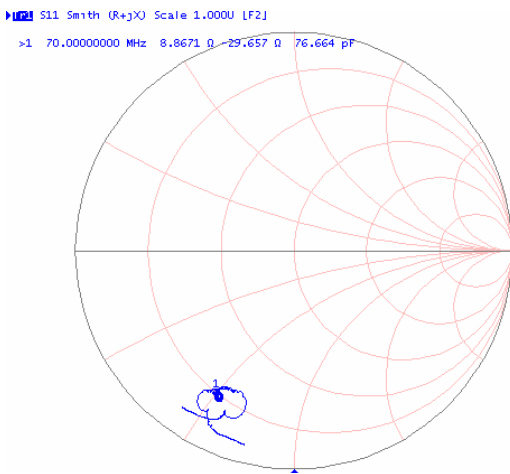
Group delay Variation($f_0 \pm 3.875\text{MHz}$)



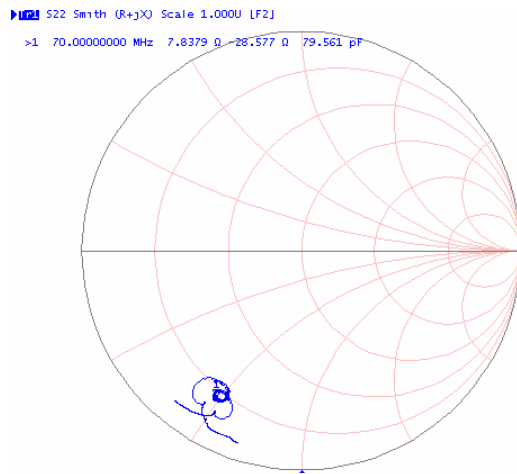
Phase Linearity($f_0 \pm 3.875\text{MHz}$)



Smith Chart S11



Smith Chart S22



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

Part Number

LBN07087

Rev. Date

2004-12-14


Rev.

1.0

Page 3/4

Marking



	SIPAT Co., Ltd. (CETC No. 26 Research Institute) Nanping Huayuan Road No. 14 Chongqing, China, 400060	Part Number	LBN07087	
		Rev. Date	2004-12-14	
		Rev.	1.0	Page 4/4