

Features

- ◇ For RF SAW filter
- ◇ Single-ended operation
- ◇ Ceramic Surface Mount Package
- ◇ Small size
- ◇ No matching required for operation at 50Ω
- ◇ RoHS compliant (2002/95/EC), Pb-free


Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	-	1747.5	-
Insertion Loss	1710~1765MHz	-	2.7	4
	1765~1785MHz	-	2.7	3.3
Passband Variation(1710~1785MHz)	dB	-	1	2.1
VSWR(1710~1785MHz)	-	-	1.9	2.5
Ultimate Rejection	10~1690MHz	15	23	-
	1690~1695MHz	4	15	-
	1800~1805MHz	4	8	-
	1805~1880MHz	15	20	-
	1880~3200MHz	20	27	-
Material Temperature coefficient	KHz/°C	-55.9		
Substrate Material	-	42LT		
Ambient Temperature	°C	25		
Operating Temperature Range	°C	-40	-	+85
DC Voltage	V	0		
Input Power	dBm	-	-	15
ESD Class	-	1A		
Package Size	SMD3.0*3.0			

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.

www.DataSheet4U.com

	SIPAT Co., Ltd. (CETC No.26 Research Institute) #14 Nanping Huayuan Road, Chongqing, China, 400060	Part Number	LBT174802	
		Rev. Date	2010-04-27	
		Ver.	1.0	Page 1/3

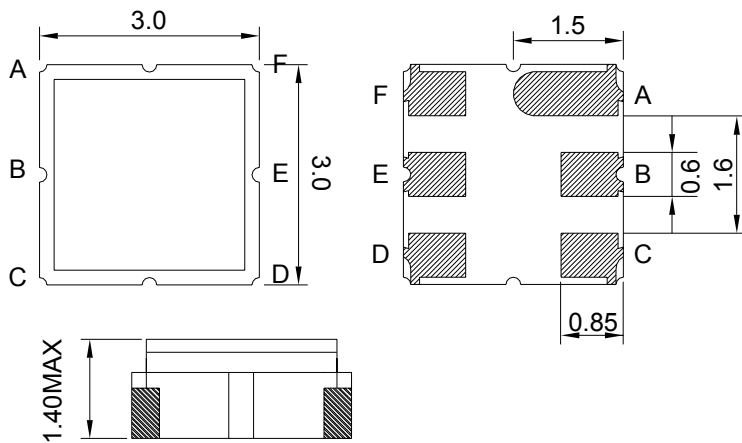
Matching Configuration



Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input: 2
Output: 5
Ground: All Others

Package: SMD3.0*3.0

Unit: mm



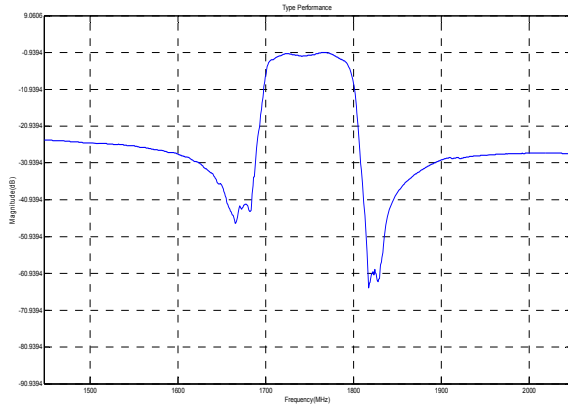
SIPAT Co., Ltd.
(CETC No.26 Research Institute)
#14 Nanping Huayuan Road,
Chongqing, China, 400060

Part Number	LBT174802	
Rev. Date	2010-04-27	
Ver.	1.0	Page 2/3



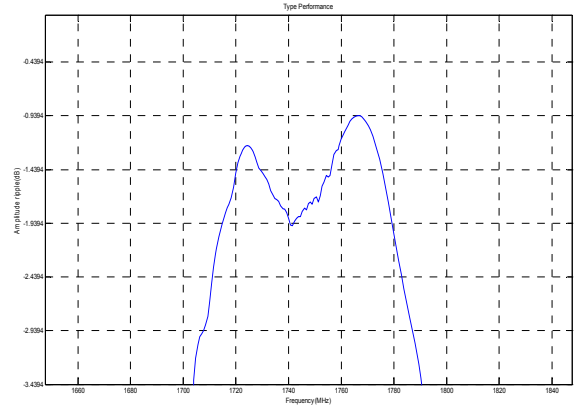
Typical Performance

Frequency Response



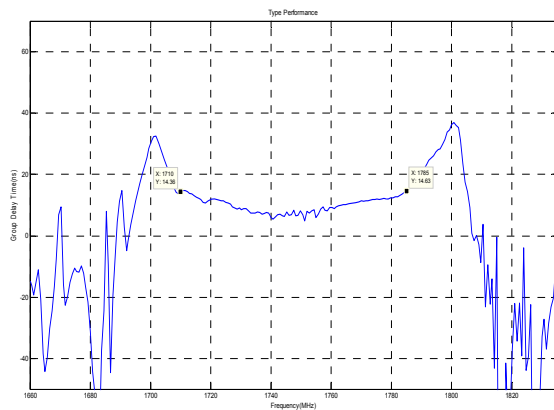
Horizontal: 100MHz/Div Vertical: 10dB/Div

Passband Response



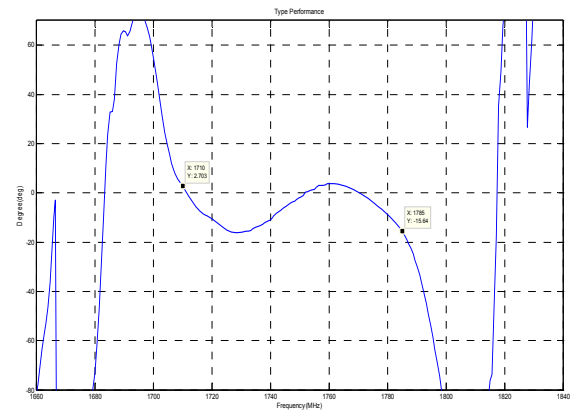
Horizontal: 20MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±37.5MHz)



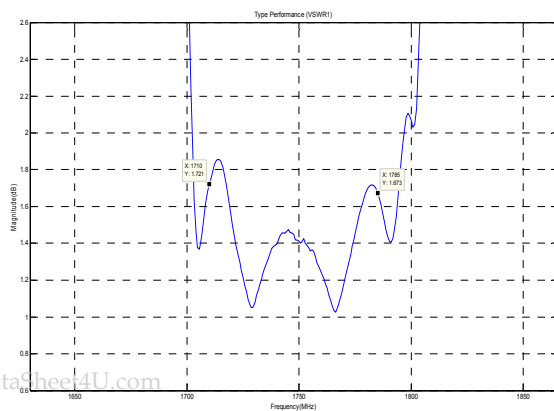
Horizontal: 20MHz/Div Vertical: 20ns/Div

Phase Linearity(f0±37.5MHz)



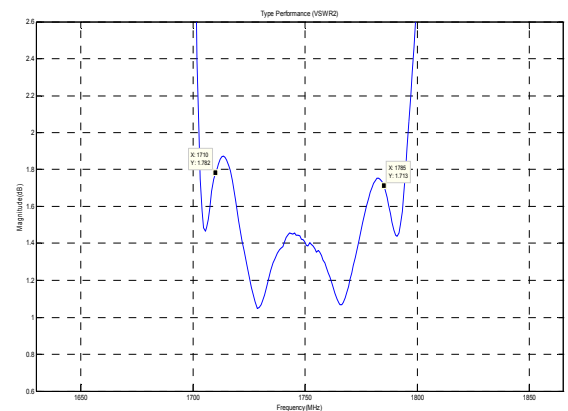
Horizontal: 20MHz/Div Vertical: 20deg/Div

VSWR11



www.DataSheet4U.com

VSWR22



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

Part Number	LBT174802	
Rev. Date	2010-04-27	
Ver.	1.0	Page 3/3