



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	-	415	-
Insertion Loss(400~430MHz)		dB	-	1.7	2.7
Passband Variation(400~430MHz)		dB	-	0.7	1.3
VSWR(400~430MHz)		-	-	1.9/1.7	2.1
Group Delay Variation(400~430MHz)		nsec	-	20	40
Attenuation	10~345MHz	dB	25	26	-
	345~390MHz	dB	9	12	-
	440~470MHz	dB	4	7	-
	470~480MHz	dB	25	29	-
	480~561MHz	dB	27	28	-
	561~593MHz	dB	24	25	-
	593~950MHz	dB	21	22	-
	950~2000MHz	dB	13	25	-
	2000~2500MHz	dB	5	14	-
Material Temperature coefficient		KHz/°C	-28.2		
Substrate Material		-	41LN		
Ambient Temperature		°C	25		
Operating Temperature Range		°C		25	
Storage Temperature Range		°C	-40	-	+85
DC Voltage		V	0		
Input Power		dBm	-	-	10
ESD Class		-	1A		
Package Size		SMD3.8*3.8			

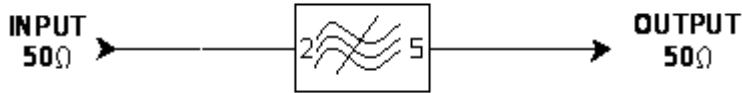
Notes:

- All specifications are based on the test circuit shown;
- In production, all specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature;
- Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances;
- 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	LBN41505	
		Rev. Date	2011-07-08	
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Matching Configuration

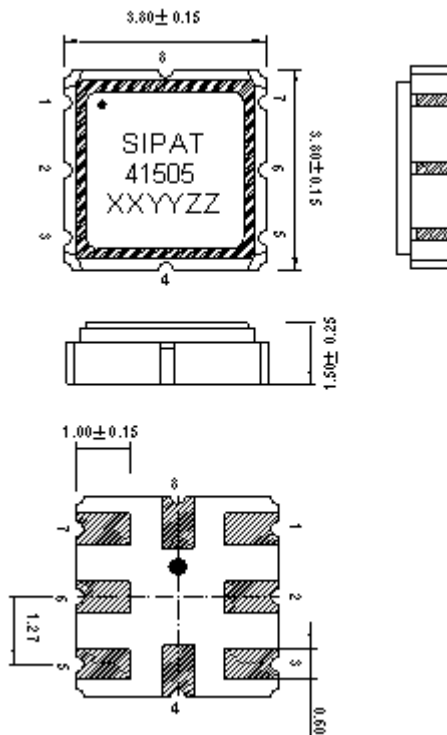
手动测试座



Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input: 2
Output: 5
Ground: 1,3,4,6,7,8

Marking Configuration:

- 1) •: Pad Number 1 Index
- 2) SIPAT: Manufacturer Name
- 3) 41505: Part Number
- 4) XXYY: Date(Year/month)
- 5) ZZ: Identified Code

Package: SMD3.8*3.8

Unit: mm



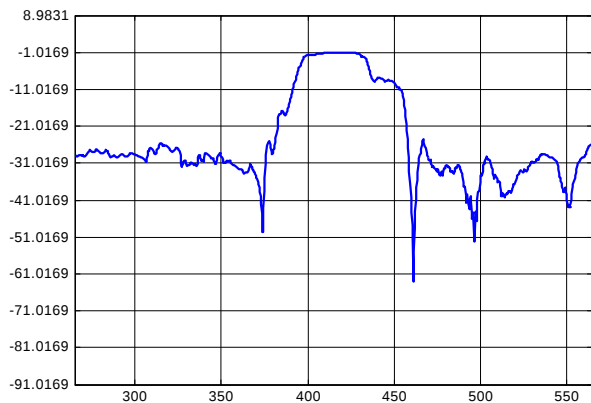
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Typical Performance

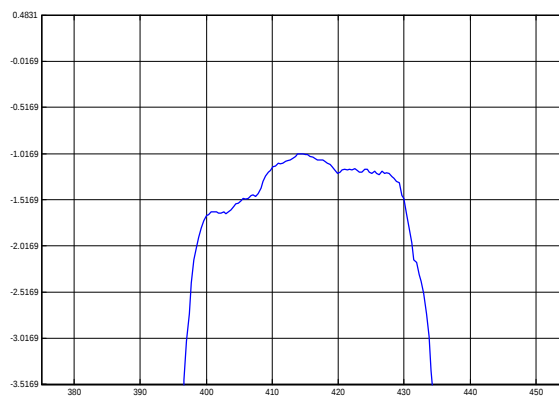
Frequency Response



Horizontal: 50MHz/Div

Vertical: 10dB/Div

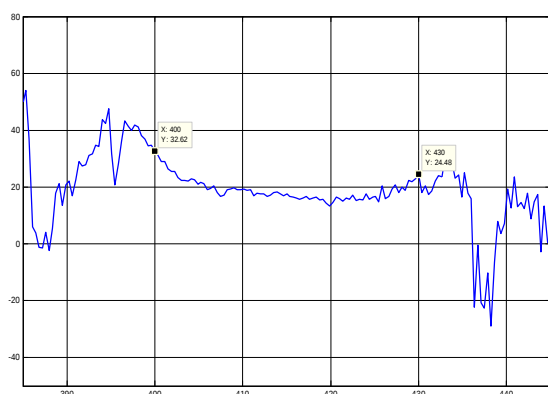
Passband Response



Horizontal: 10MHz/Div

Vertical: 0.5dB/Div

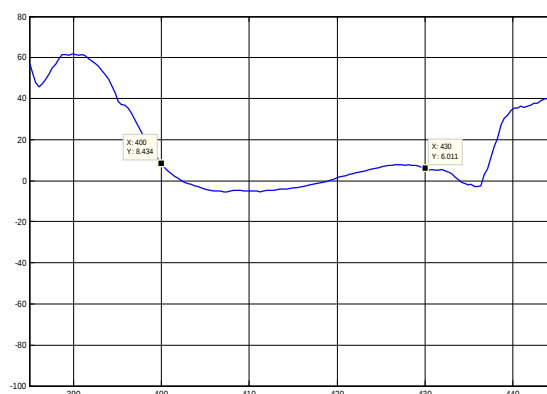
Group Delay Variation($f_0 \pm 15\text{MHz}$)



Horizontal: 10MHz/Div

Vertical: 20ns/Div

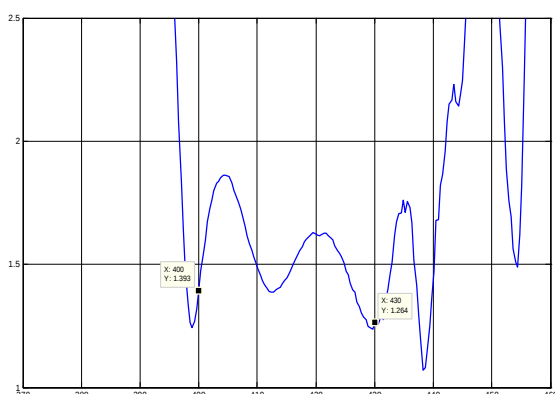
Phase Linearity($f_0 \pm 15\text{MHz}$)



Horizontal: 10MHz/Div

Vertical: 20deg/Div

Input VSWR($f_0 \pm 15\text{MHz}$)



Output VSWR($f_0 \pm 15\text{MHz}$)

