



Features

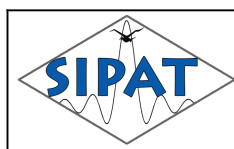
- ✧ For RF SAW filter
- ✧ Single-ended operation
- ✧ Ceramic Surface Mount Package
- ✧ Small size
- ✧ No matching required for operation at 50Ω
- ✧ RoHS compliant (2002/95/EC), Pb-free

Specifications

Parameter		Unit	Minimum	Typical	Maximum
Center Frequency		MHz	-	422.5	-
Insertion Loss(420~425MHz)		dB	-	3.0	4.5
Passband Variation(420~425MHz)		dB	-	0.9	1
VSWR(420~425MHz)		dB	-	1.5	2
1dB bandwidth		MHz	5	5.2	-
Attenuation	100 ~ 410MHz	dB	30	35	-
	415 ~ 417.5MHz	dB	15	30	-
	427.5 ~ 430MHz	dB	15	25	-
	435 ~ 1000MHz	dB	30	35	-
Material Temperature coefficient		kHz/°C	-15.21		
Substrate Material		-	42LT		
Ambient Temperature		°C	25		
Operating Temperature Range		°C		25	
Storage Temperature Range		°C	-55	-	+100
ESD Class		-	1A		
Package Size			SMD5.0*5.0		

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.
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Part Number	LBT42305		
Rev. Date	2013-06-03		
Ver.	1.0	Page 1/3	

Matching Configuration

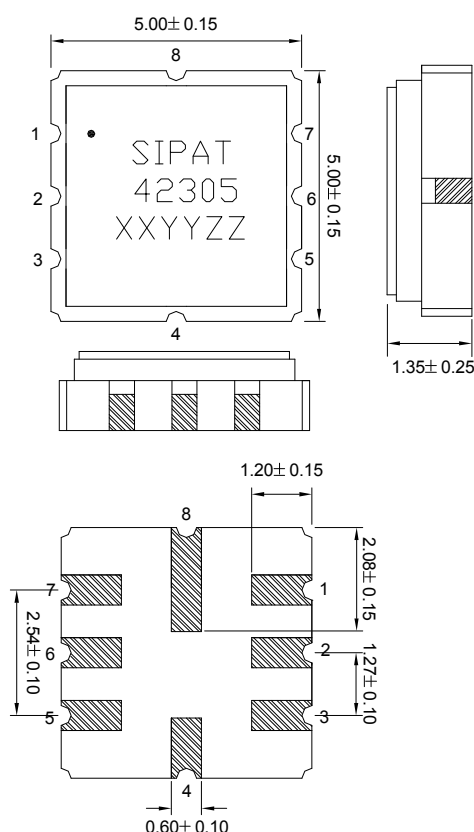
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Source/Load Impedance=50 ohm

Notes - Component values may change depending
on board layout.

Package Dimension



Pad Configuration:

Input: 2
Output: 6
Ground: All others

Marking Configuration:

- 1) •: Pad Number 1 Index
- 2) SIPAT: Manufacturer Name
- 3) LBN13818: Part Number
- 4) XXYY: Date(Year/month)
- 5) ZZ: Identified Code

Package: SMD5.0*5.0

Unit: mm



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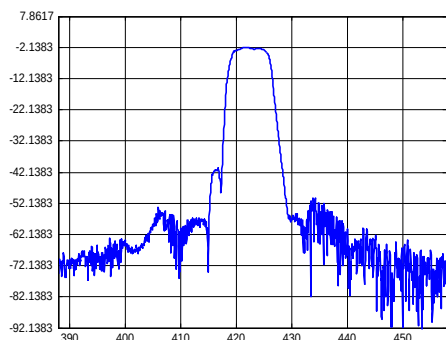
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Typical Performance

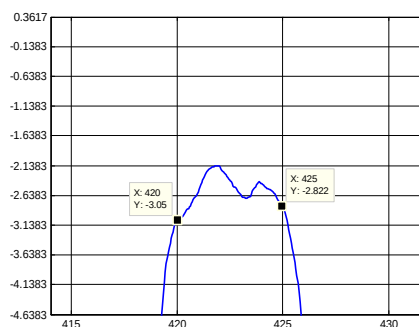
Frequency Respond



Horizontal: 10MHz/Div

Vertical: 10dB/Div

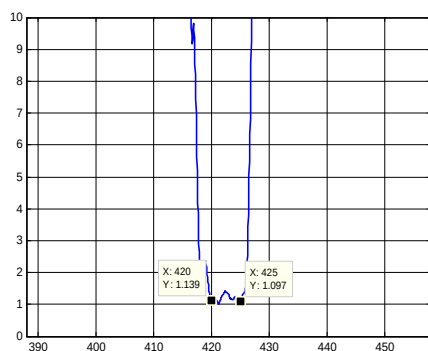
Passband Respond



Horizontal: 5MHz/Div

Vertical: 0.5dB/Div

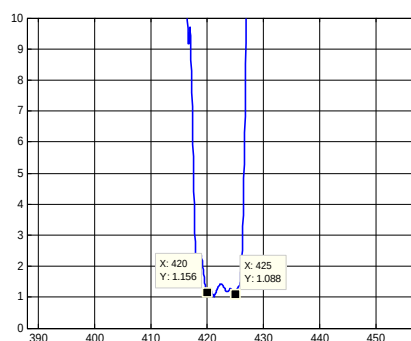
VSWR S11



Horizontal: 10MHz/Div

Vertical: 1ns/Div

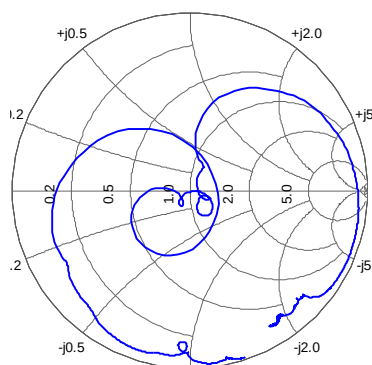
VSWR S22



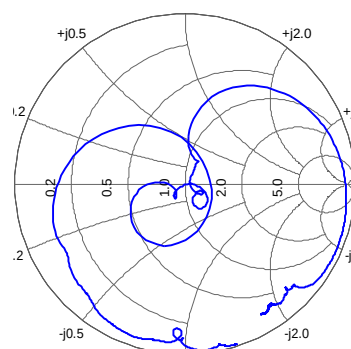
Horizontal: 10MHz/Div

Vertical: 1deg/Div

Smith Chart S11



Smith Chart S22



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