



Features


- ◇ For IF SAW filter
- ◇ Single-ended operation
- ◇ Ceramic Surface Mount Package
- ◇ Small size
- ◇ RoHS compliant (2002/95/EC), Pb-free

Specifications

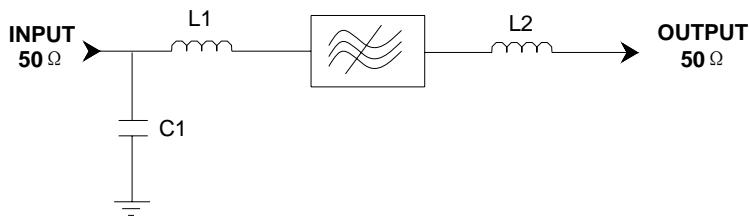
Parameter	Unit	Minimum	Typical	Maximum	
Center Frequency	MHz	-	157	-	
Insertion Loss	dB	-	6.9	8	
1 dB Bandwidth	MHz	20	22.85	-	
3 dB Bandwidth	MHz	21	25.27	-	
Passband Variation	dB	-	0.8	1	
Absolute Delay	usec	-	0.29	0.3	
Group Delay variation($f_0 \pm 10\text{MHz}$)	nsec	-	25	100	
Input VSWR	dB	10	12	-	
Output VSWR	dB	10	16	-	
Ultimate Rejection	$f_0 \pm 16\text{ MHz} \sim f_0 \pm 20\text{MHz}$	dB	8	21	-
	$f_0 \pm 20\text{MHz} \sim f_0 \pm 100\text{MHz}$	dB	15	25	-
	Outside of $f_0 \pm 100\text{MHz}$	dB	35	47	-
Material Temperature coefficient	KHz/°C	-12.87			
Substrate Material	-	128LN			
Ambient Temperature	°C	25			
Operating Temperature Range	°C	-40	-	+85	
Storage Temperature Range	°C	-45	-	+105	
DC Voltage	V	0			
Input Power	dBm	-	-	10	
ESD Class	-	1			
Package Size	SMD3.8*3.8				

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	LBN15703	
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Matching Configuration



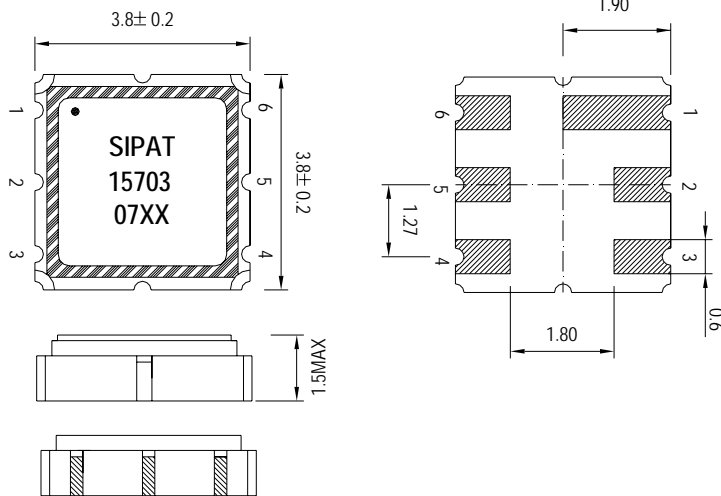
L1 = 150nH L2 = 180nH

C1 = 10pF

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

Marking Configuration:

- 1) •: Pad Number 1 Index
- 2) SIPAT: Manufacturer Name
- 3) 15703: Part Number
- 4) 07XX: Date Code

Package: SMD3.8*3.8

Unit: mm



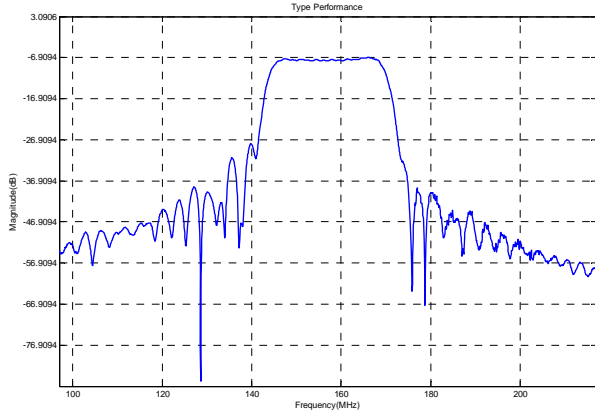
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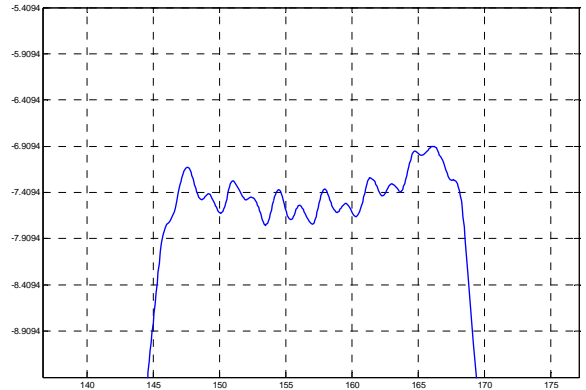
Typical Performance

Frequency Respond



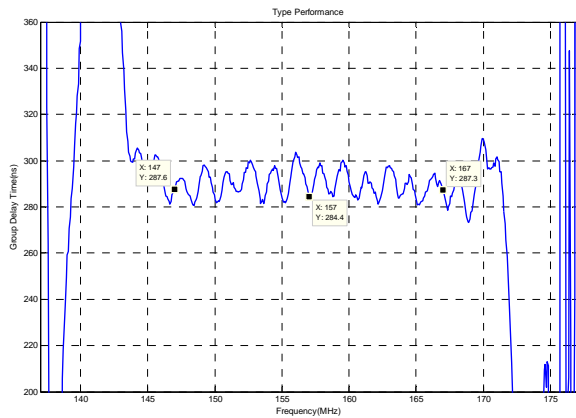
Horizontal: 20MHz/Div Vertical: 10dB/Div

Passband Respond



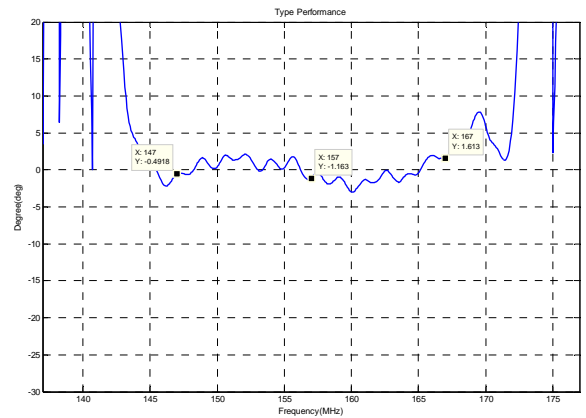
Horizontal: 5MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±10MHz)



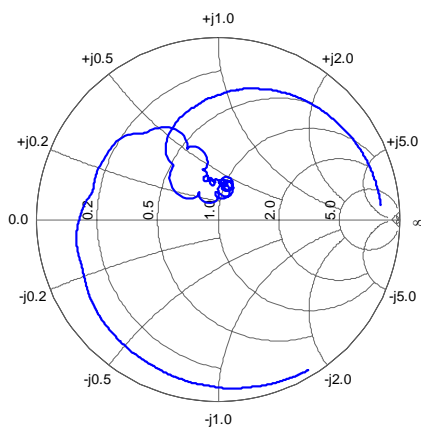
Horizontal: 5MHz/Div Vertical: 20ns/Div

Phase Linearity(f0±10MHz)

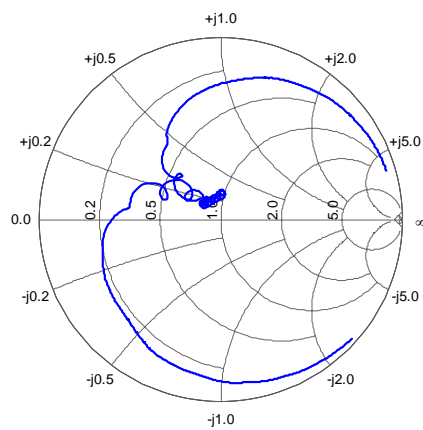


Horizontal: 5MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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