

Features


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

Specifications

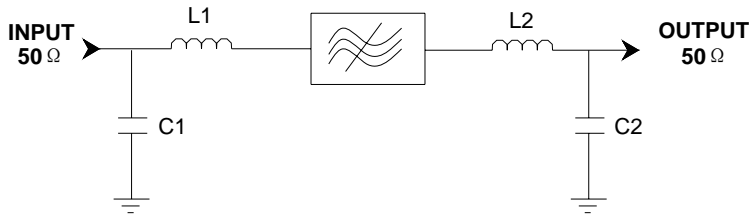
Parameter		Unit	Minimum	Typical	Maximum
Center Frequency		MHz	-	140	-
Insertion Loss		dB	-	12.6	18.5
Passband Variation	137.25~142.75MHz	dB	-	0.3	1.8
	136.5~143.5MHz	dB	-	0.3	2
Phase Linearity	137.25~142.75MHz	deg	-	2	6
	136.5~143.5MHz	deg	-	3	8
Absolute Delay(137.25~142.75MHz)		usec	-	1.05	-
Input/Output return loss(136.5~143.5MHz)		dB	8.5	12/10.7	-
Ultimate Rejection	10~132MHz	dB	40	46	-
	132~133MHz	dB	35	49	-
	147~150MHz	dB	35	38	-
	150~200MHz	dB	40	52	-
Material Temperature coefficient		KHz/°C	-2.52		
Substrate Material		-	112LT		
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		-	1A		
Package Size		SMD9.1*4.8			

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	LB140DS38	
		Rev. Date	2008-11-11	
		Ver.	1.0	Page

Matching Configuration



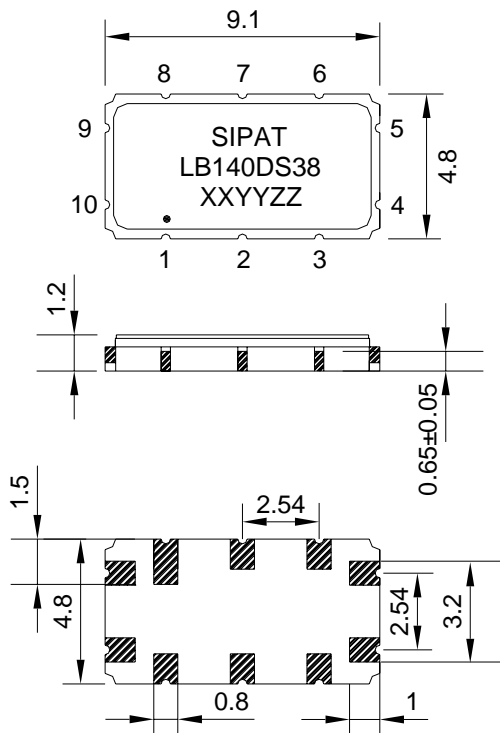
$$L1 = (27 + 15)nH \quad L2 = 47nH$$

$$C1 = C2 = 56pF$$

Source/Load Impedance = 50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input: 9

Output: 4

Ground: All Others

Marking Configuration:

- 1) •: Pad Number 1 Index
- 2) SIPAT: Manufacturer Name
- 3) LB140DS38: Part Number
- 4) XXYZ: Date (Year/month)
- 5) ZZ: Identified Code

Package: SMD9148

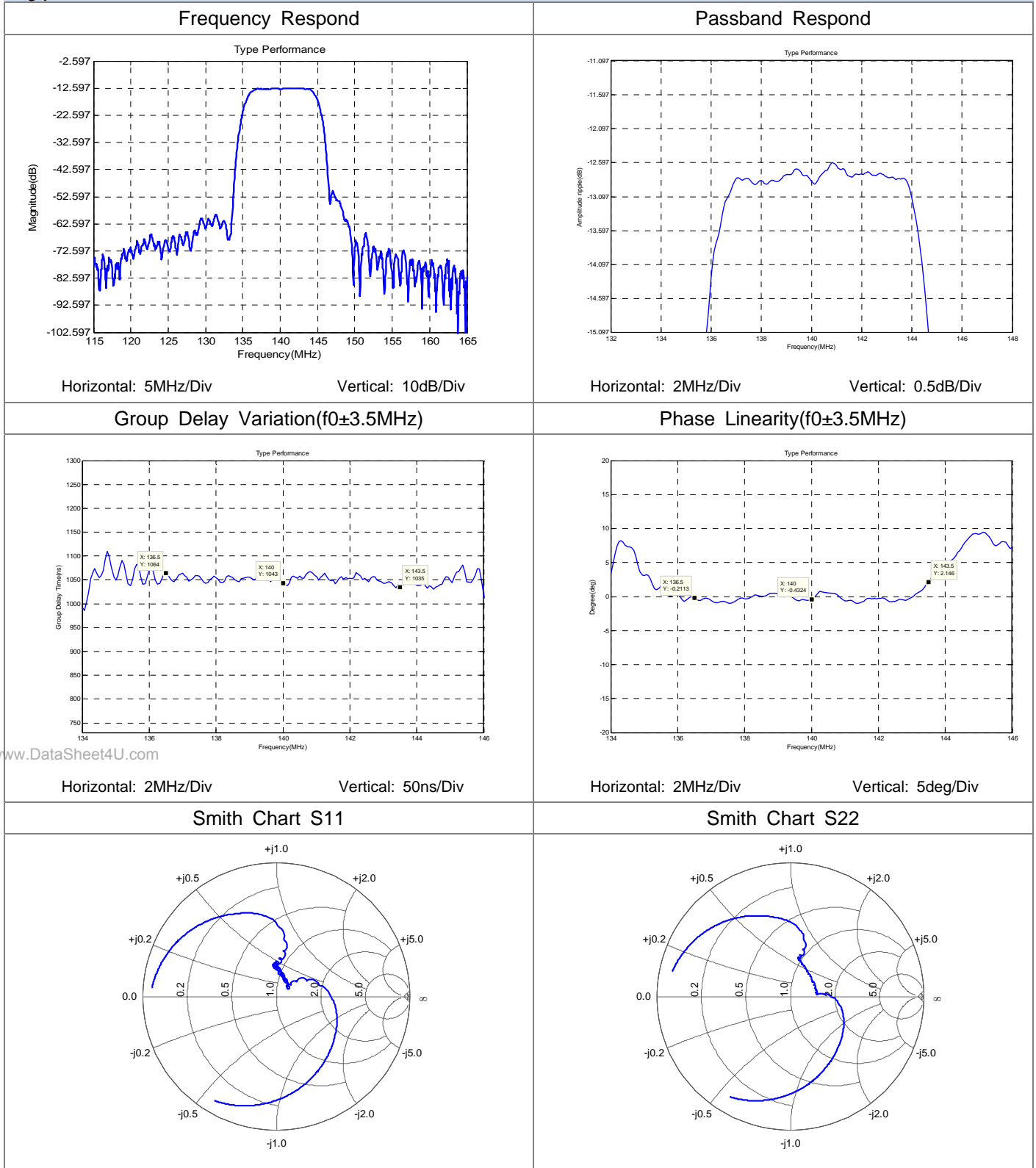
Unit: mm



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Typical Performance



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Ver.	1.0	Page 3/3