


Specifications

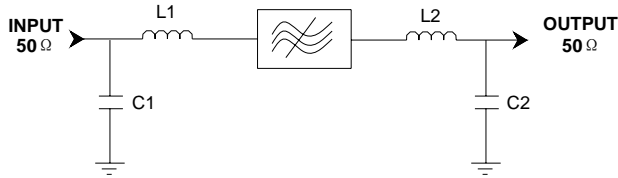
Parameter	Unit	Minimum	Typical	Maximum	
Center Frequency	MHz	-	259.86	-	
Insertion Loss	dB	-	16.2	17	
1.5 dB Bandwidth	MHz	12.5	14.23	-	
3 dB Bandwidth	MHz	14.4	15	-	
15 dB Bandwidth	MHz	-	17.17	-	
Passband Variation	253.61 ~ 266.11	dB	-	1	1.4
	253.61 ~ 255.47	dB	-	0.6	0.8
	255.47 ~ 257.33	dB	-	0.6	0.8
	257.33 ~ 259.84	dB	-	0.6	0.8
	259.89 ~ 262.40	dB	-	0.6	0.8
	262.40 ~ 264.25	dB	-	0.6	0.8
	264.25 ~ 266.11	dB	-	0.7	1
Absolute Delay	usec	-	0.7	-	
Group Delay Variation($f_0 \pm 6.24\text{MHz}$)	nsec	-	52	70	
Ultimate Rejection	230.0 ~ 247.86	dB	34	40	-
	247.86 ~ 249.36	dB	32	38	-
	268.86 ~ 270.16	dB	13	14	-
	270.16 ~ 271.86	dB	34	36	-
	271.86 ~ 290.0	dB	35	40	-
Material Temperature coefficient	KHz/°C	-4.68			
Ambient Temperature	°C	25			
Package Size	SMD7*5				

Notes:

1. All specifications are based on the test circuit shown
2. In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over 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) Nanping Huayuan Road No. 14 Chongqing, China, 400060	Part Number	LB260DS01	
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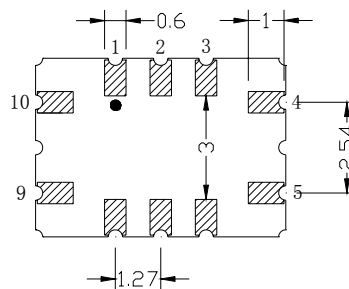
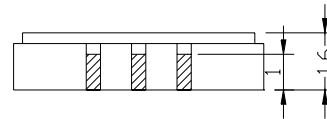
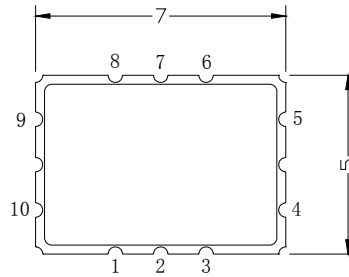
Matching Configuration



L1=27nH L2=33nH
C1=C2=22pF
Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Input	9
Output	4
Ground	1,2,3,5,6,7,8,10

Package: SMD5*7

Unit: mm

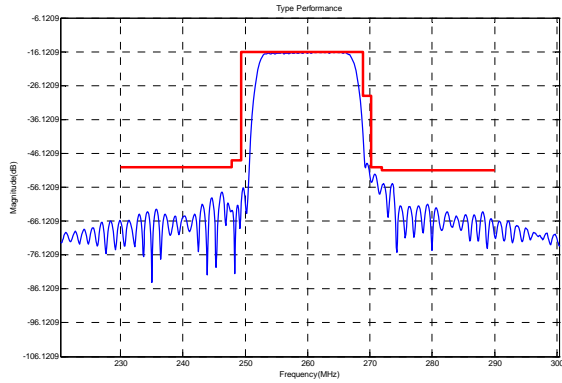


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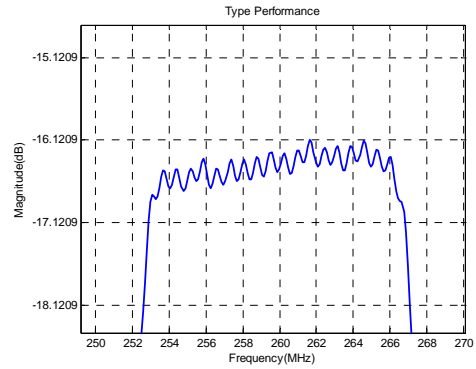
Typical Performance

Frequency Respond



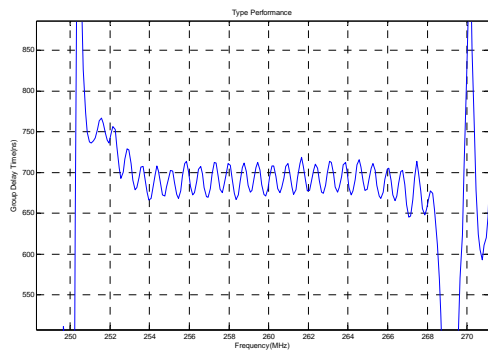
Horizontal: 10MHz/Div Vertical: 10dB/Div

Passband Respond



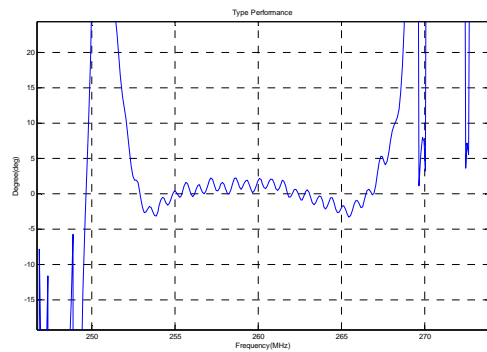
Horizontal: 2MHz/Div Vertical: 1dB/Div

Group Delay Variation($f_0 \pm 6.24\text{MHz}$)



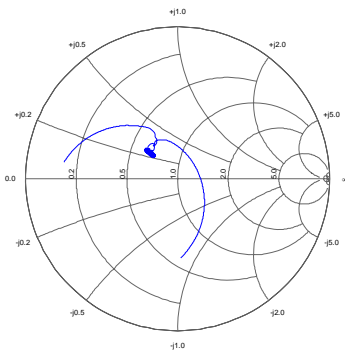
Horizontal: 1MHz/Div Vertical: 50ns/Div

Phase Linearity($f_0 \pm 6.24\text{MHz}$)

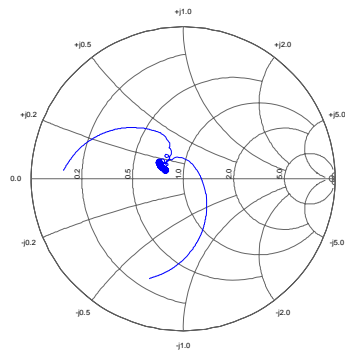


Horizontal: 5MHz/Div Vertical: 1deg/Div

Smith Chart S11



Smith Chart S22



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