

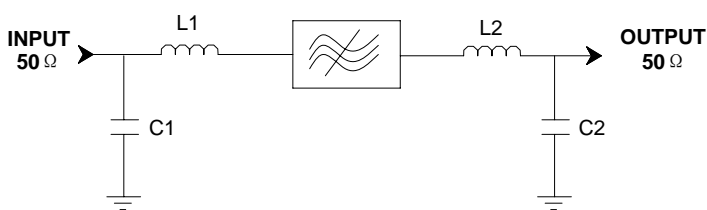
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	88.3	88.4	88.5
Insertion Loss	dB	-	22.3	27
1 dB Bandwidth	MHz	2.25	2.31	-
3 dB Bandwidth	MHz	-	2.47	-
35 dB Bandwidth	MHz	-	3.02	3.1
40 dB Bandwidth	MHz	-	3.05	-
45 dB Bandwidth	MHz	-	3.08	3.8
50 dB Bandwidth	MHz	-	3.18	4.2
55 dB Bandwidth	MHz	-	3.44	12.2
Passband Variation	dB	-	0.4	1
Absolute Delay	usec	-	4.4	4.5
Ultimate Rejection($f_0 \pm 15\text{MHz}$)	dB	60	68	-
Material Temperature coefficient	KHz/°C	0.088		
Ambient Temperature	°C	25		
Package Size	DIP3512 (35.0x12.8x4.7mm3)			

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

Matching Configuration



L1=220nH L2=150nH
C1=36pF C2=56pF
Source/Load Impedance=50 ohm

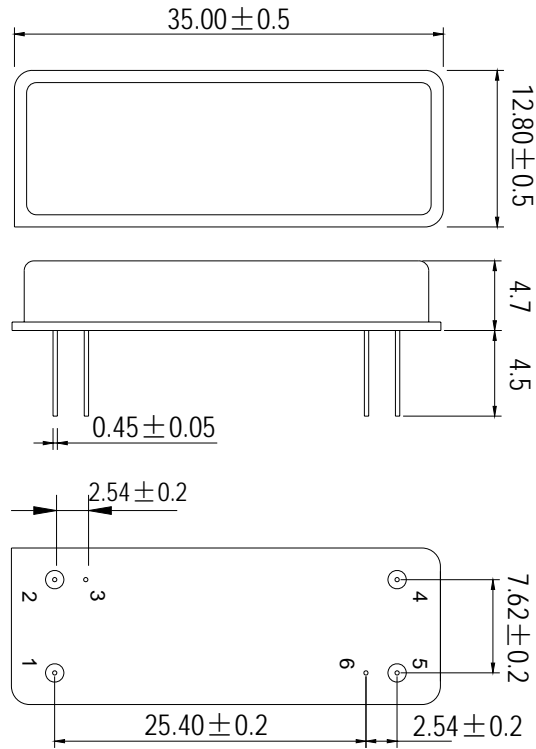
Notes - Component values may change depending on board layout.



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Part Number	LBS08803		
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Package Dimension



Input	1
Output	5
Ground	2,3,4,6

Package: DIP3512

Unit: mm

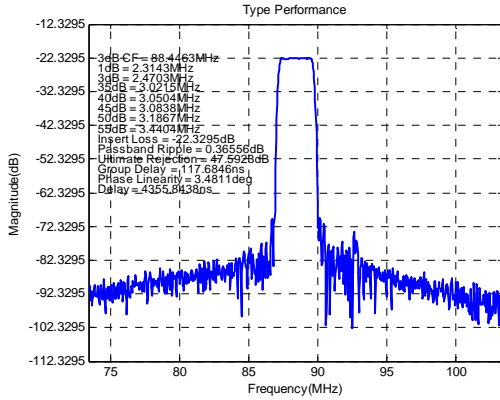


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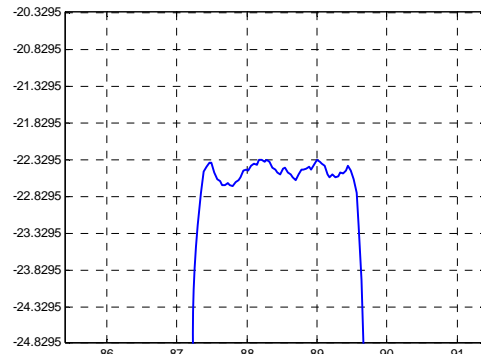
Typical Performance

Frequency Response



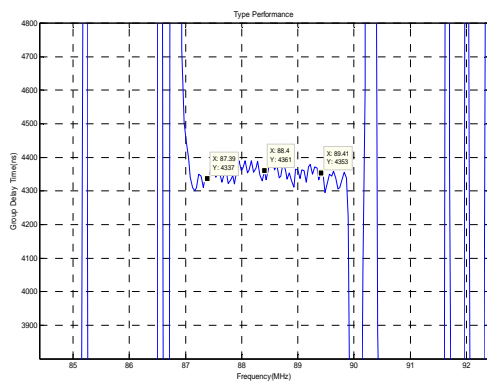
Horizontal: 5MHz/Div Vertical: 10dB/Div

Passband Response



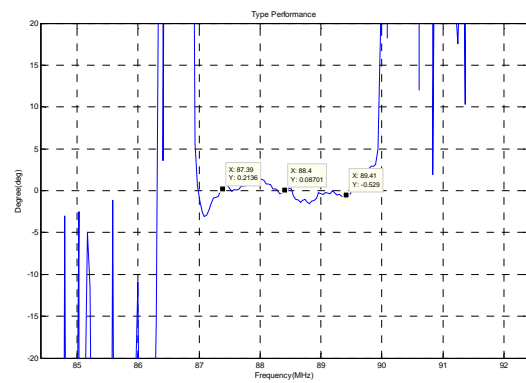
Horizontal: 1MHz/Div Vertical: 0.5dB/Div

Group Delay Variation (f0±1MHz)



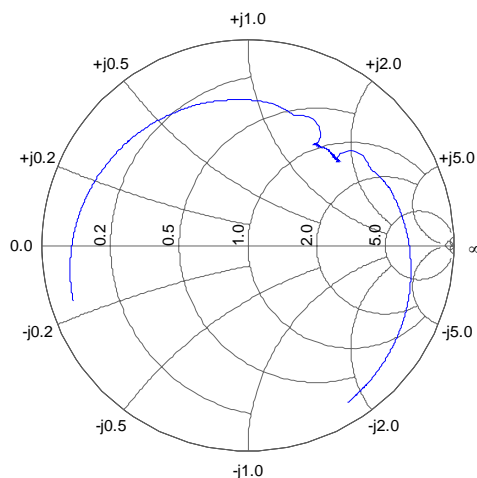
Horizontal: 1MHz/Div Vertical: 100ns/Div

Phase Linearity (f0±1MHz)

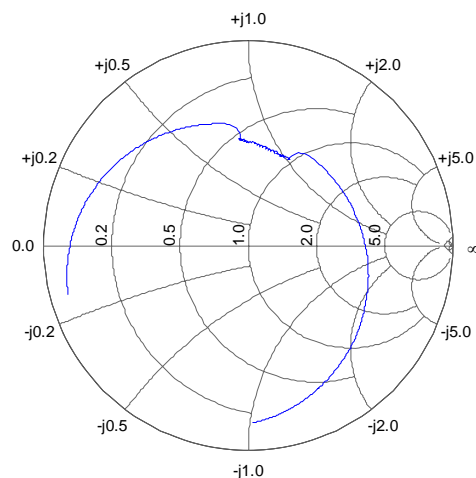


Horizontal: 1MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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Maximum Ratings

Operating Temperature Range	°C	[-40°C;+85°C]
Storage Temperature Range	°C	[-40°C;+105°C]
DC Voltage	V	0
Input Power	dBm	10 max
ESD Class		1



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