



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	-	881.5	-
Insertion Loss(869~894MHz)		dB	-	2.4	3.5
3 dB Bandwidth		MHz	-	37.6	-
Passband variation(869~894MHz)		dB	-	0.8	1.5
Ultimate Rejection	10 ~779MHz	dB	45	55	-
	779 ~849MHz	dB	40	45	-
	914 ~970MHz	dB	20	31	
	970 ~1049MHz	dB	45	52	
	1049 ~2000MHz	dB	35	38	-
Material Temperature coefficient		KHz/°C	-28.2		
Substrate Material		-	42LT		
Ambient Temperature		°C	25		
Operating Temperature Range		°C	-10	-	+65
Storage Temperature Range		°C	-40	-	+85
DC Voltage		V	0		
Input Power		dBm	-	-	10
ESD Class		-	1A		
Package Size		SMD3.0*3.0			

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.



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Part Number	LBT88203		
Rev. Date	2009-10-15		
Ver.	1.0	Page	1/3

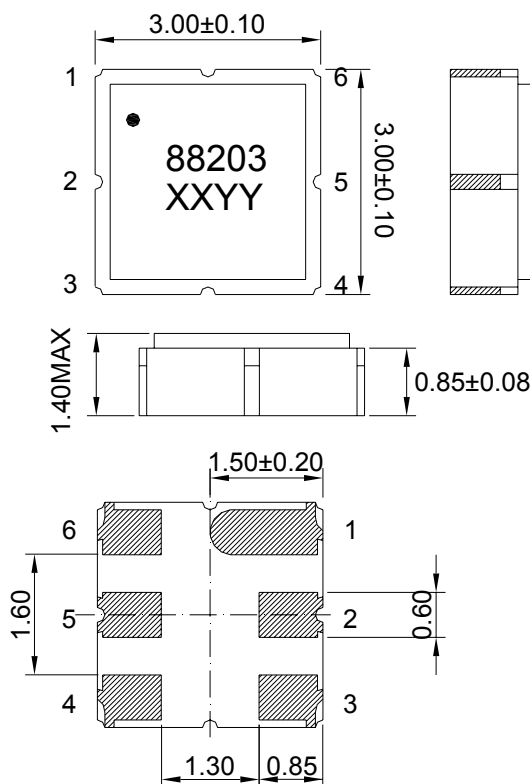
Matching Configuration



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) 88203: Part Number
- 3) XYYY: Date(Year/month)

Package: SMD3.0*3.0

Unit: mm



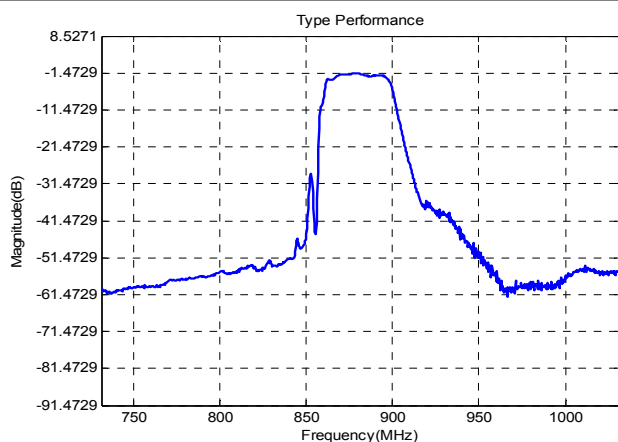
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Typical Performance

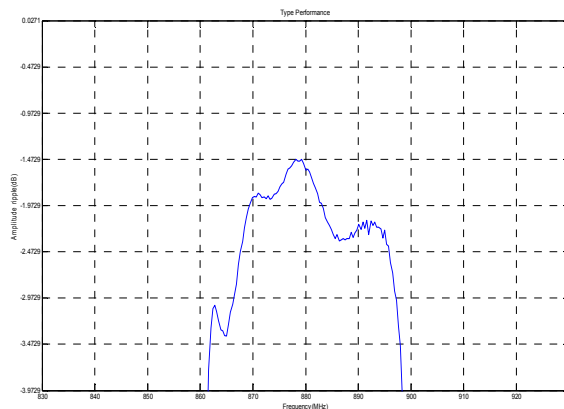
Frequency Respond



Horizontal: 50MHz/Div

Vertical: 10dB/Div

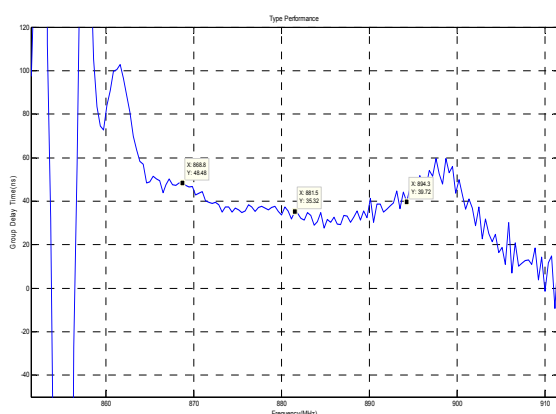
Passband Respond



Horizontal: 10MHz/Div

Vertical: 0.5dB/Div

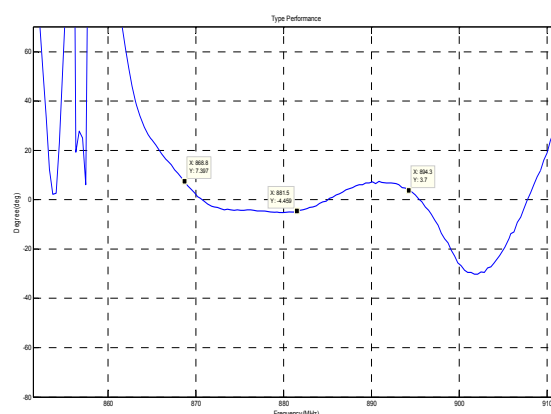
Group Delay Variation($f_0 \pm 12.5$ MHz)



Horizontal: 10MHz/Div

Vertical: 20ns/Div

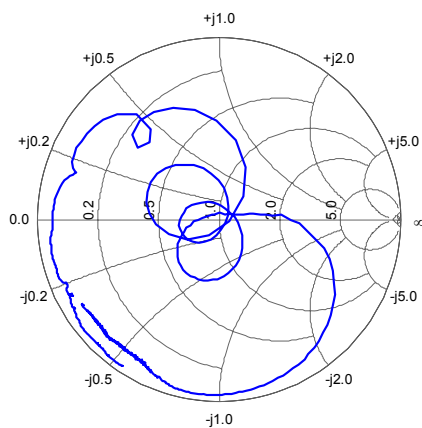
Phase Linearity($f_0 \pm 12.5$ MHz)



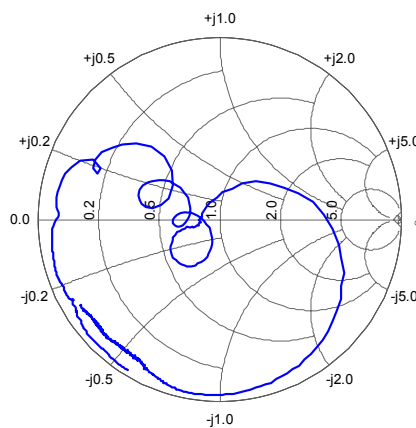
Horizontal: 10MHz/Div

Vertical: 20deg/Div

Smith Chart S11



Smith Chart S22



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