



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	-	875	-
Insertion Loss	865 ~885MHz	dB	-	1.5	2.5
	870 ~880MHz	dB	-	1.2	2
Passband Variation(865 ~885MHz)		dB	-	0.5	1.5
VSWR(865 ~885MHz)		-	-	1.5/1.4	2
Ultimate Rejection(825 ~835MHz)		dB	40	42	-
Material Temperature coefficient		KHz/°C	-28		
Substrate Material		-	42LT		
Ambient Temperature		°C	25		
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	LBT87505		
Rev. Date	2011-03-11		
Ver.	1.0	Page	1/3

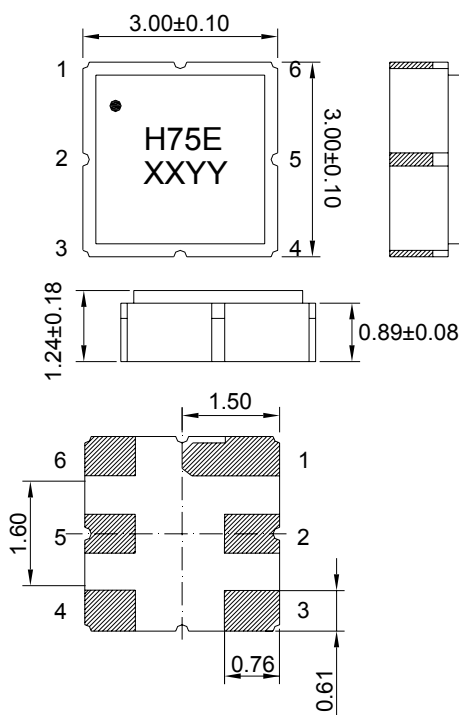
Matching Configuration



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) H75E: Part Number
- 3) XXYY: Date(Year/month)

Package: SMD3.0*3.0

Unit: mm



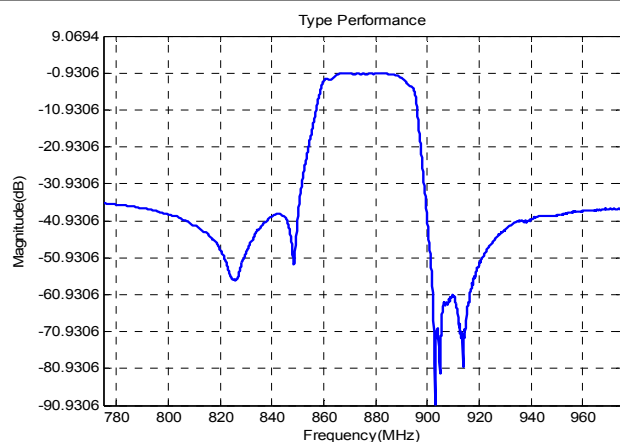
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Typical Performance

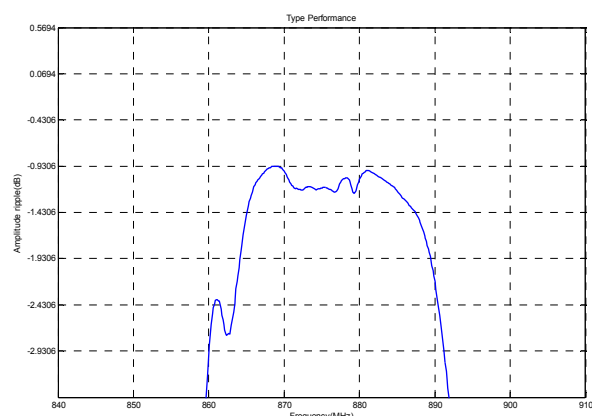
Frequency Response



Horizontal: 20MHz/Div

Vertical: 10dB/Div

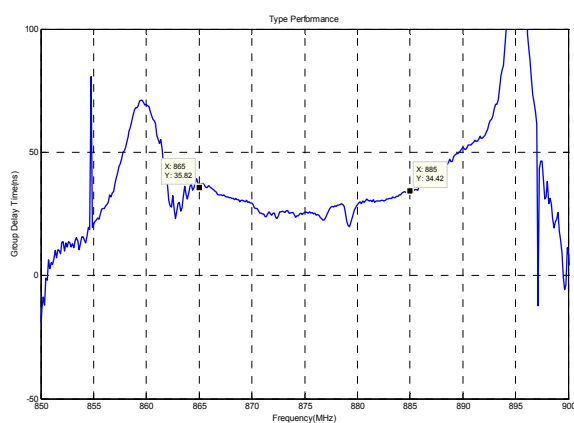
Passband Response



Horizontal: 10MHz/Div

Vertical: 0.5dB/Div

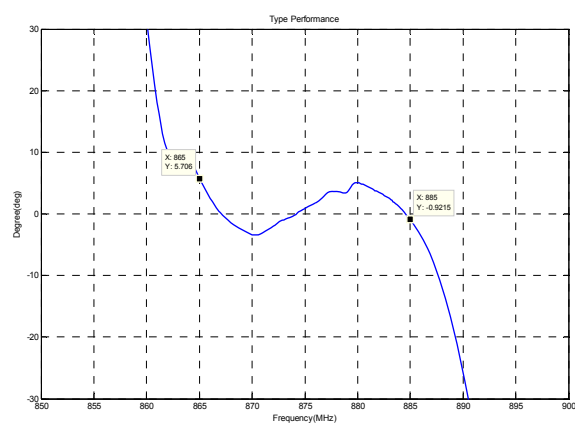
Group Delay Variation(f0±10MHz)



Horizontal: 5MHz/Div

Vertical: 50ns/Div

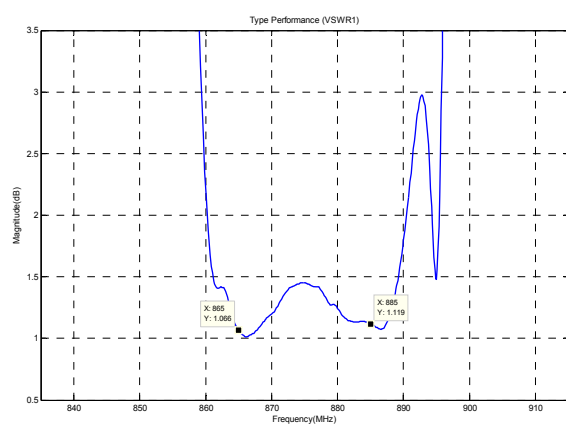
Phase Linearity(f0±10MHz)



Horizontal: 5MHz/Div

Vertical: 10deg/Div

VSWR11(f0±10MHz)



VSWR22(f0±10MHz)

