881.5MHz SAW Filter
25MHz Bandwidth

Part Number: LBT88204

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	3.0
Amplitude Ripple (869~894MHz)		dB_{p-p}	-	0.7	1.5
Attenuation	*DC~779MHz*	dB	50	55	-
	779~849MHz	dB	42	42	-
	914~970MHz	dB	26	26	-
	970~1049MHz	dB	50	55	-
	1049~2000MHz	dB	45	45	-
VSWR (869~894MHz)		-	-	1.8	2.0
Material Temperature coefficient		kHz/°C	-31.73		
Substrate Material		-	42LT		
Ambient Temperature		°C	25		
Operating Temperature Range		°C	-30	25	+80
Storage Temperature Range		°C	-40	-	+85
ESD Class		-	1A		
Package Size		SMD3.0*3.0			

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.

Matching Configuration

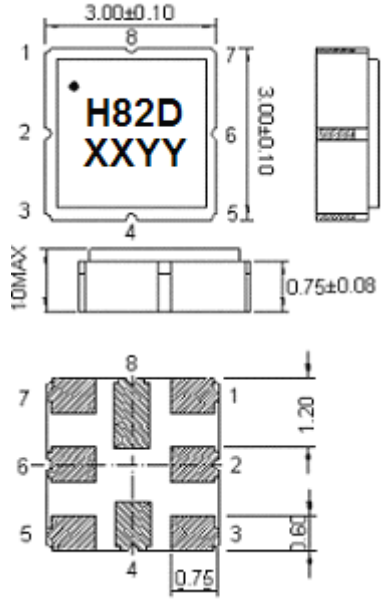
手动测试座

Source/Load Impedance=50 ohm



Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input: 2

Output: 6

Ground: All Others

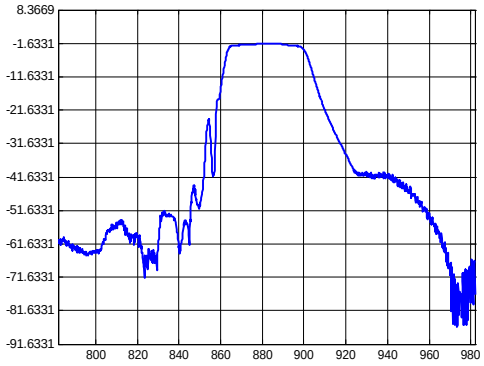
Marking Configuration:

1) •: Pad Number 1 Index
2) H82D: Part Number
3) XXYY: Date(Year/month)

Package: SMD3.0*3.0 **Unit: mm**

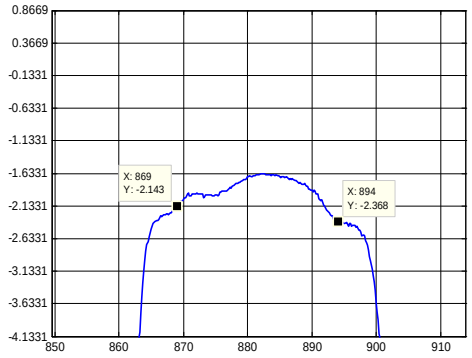
Typical Performance

Frequency Response



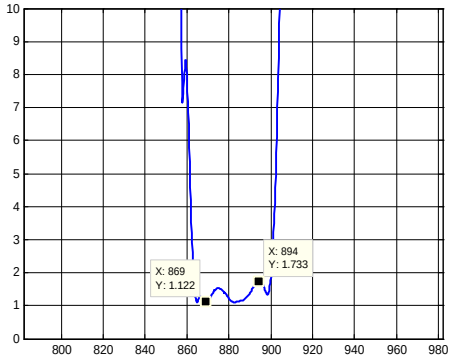
Horizontal: 20MHz/Div Vertical: 10dB/Div

Passband Response



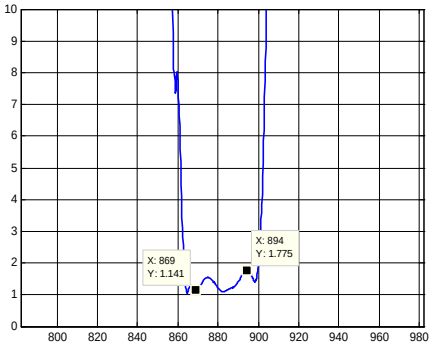
Horizontal: 10MHz/Div Vertical: 0.5dB/Div

VSWR S11



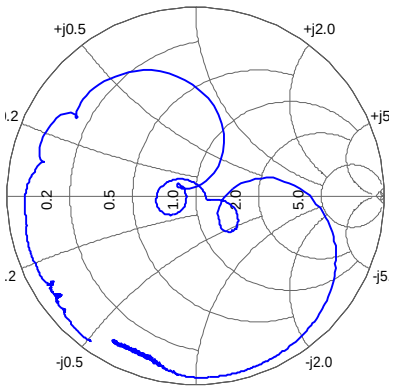
Horizontal: 20MHz/Div Vertical: 1ns/Div

VSWR S22



Horizontal: 20MHz/Div Vertical: 1deg/Div

Smith Chart S11



Smith Chart S22

