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	-	836.5	-
Insertion Loss(824~849MHz)		dB	-	2.5	3.5
1.5 dB Bandwidth		MHz	25	29.57	-
3 dB Bandwidth		MHz	34.8	35.25	-
Passband variation(824~849MHz)		dB	-	0.6	1.5
Ultimate Rejection	*DC～800MHz*	dB	40	50	-
	869～925MHz	dB	28	31	-
	925～2000MHz	dB	35	37	-
Material Temperature coefficient		KHz/°C	-26.78		
Substrate Material		-	42LT		
Ambient Temperature		°C	25		
Operating Temperature Range		°C	-40	-	+85
Storage Temperature Range		°C	-45	-	+105
DC Voltage		V	0		
Input Power		dBm	-	-	10
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.

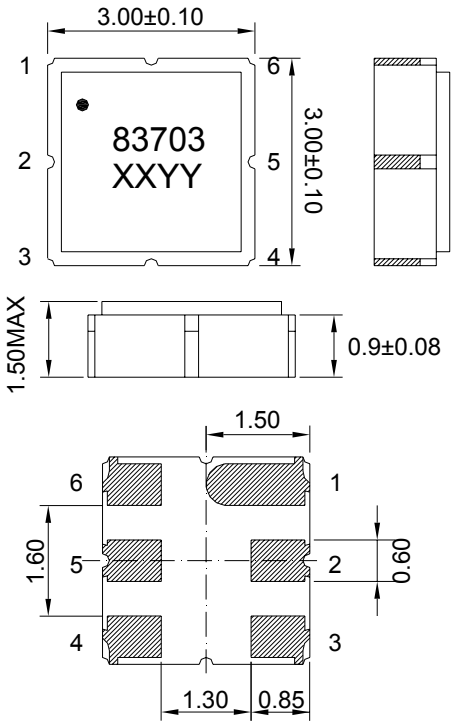
Matching Configuration



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

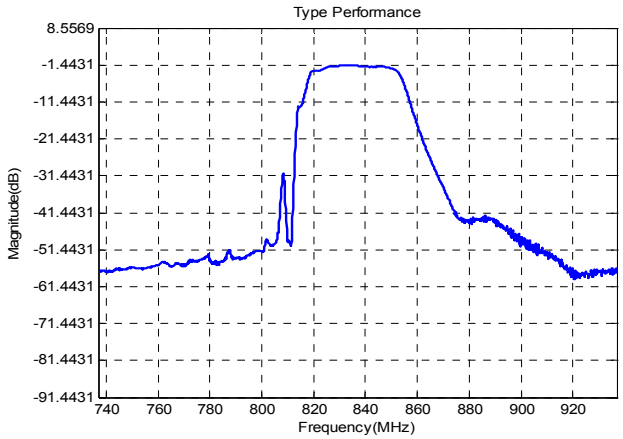
Marking Configuration:

1) •: Pad Number 1 Index
2) 83703: Part Number
3) XXYY: Date(Year/month)

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

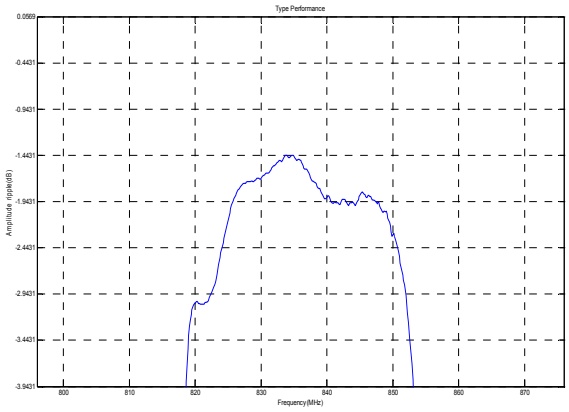
Typical Performance

Frequency Respond



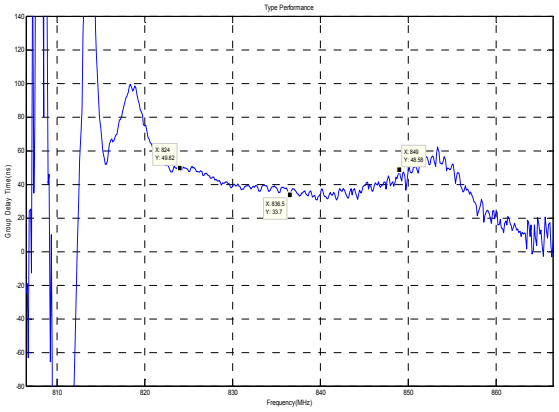
Horizontal: 20MHz/Div Vertical: 10dB/Div

Passband Respond



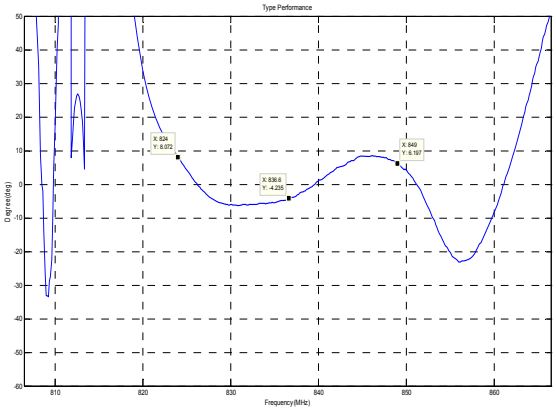
Horizontal: 10MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±12.5MHz)



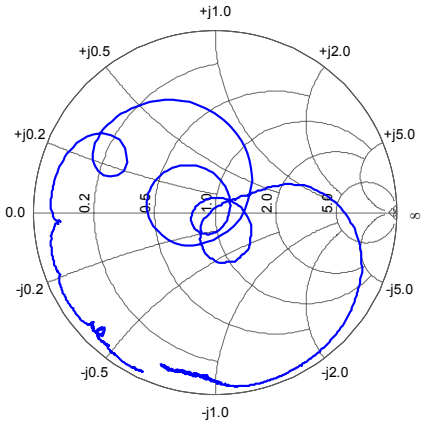
Horizontal: 10MHz/Div Vertical: 20ns/Div

Phase Linearity(f0±12.5MHz)



Horizontal: 10MHz/Div Vertical: 10deg/Div

Smith Chart S11



Smith Chart S22

