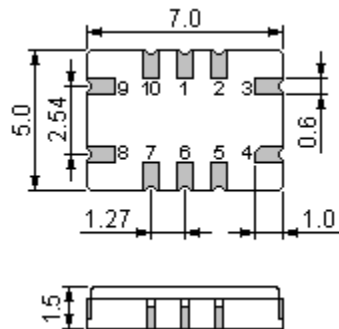


This specification is applied to a low-loss, compact, and economical surface-acoustic-wave (SAW) IF filter in a surface-mount ceramic SMP-03 case with center frequency **240.000** MHz.

1. Package Dimension (SMP-03)



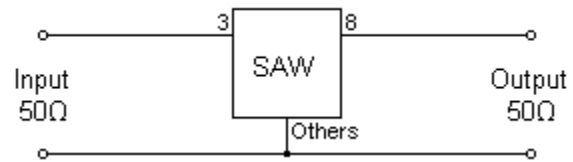
Pin	Configuration
3	Input
8	Output
Others	Ground

2. Marking

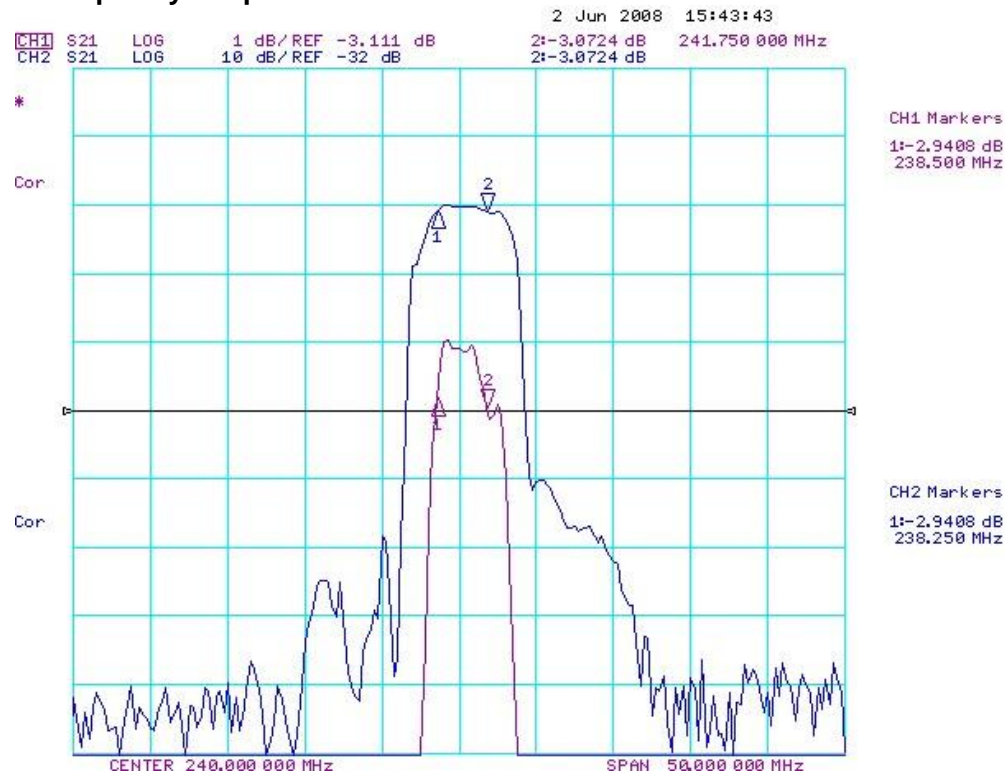
**ACTF\***  
**2056**

Laser Marking

3. Test Circuit



4. Frequency Response



In line with our ongoing policy of product evolution and improvement, the above specification may subject to change without notice

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For quotations or further information please contact us at:

3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2EY, UK

<http://www.actcrystals.com>

## 5. Performance

### 5-1. Maximum Ratings

Rating		Value	Unit
Input Power Level	$P$	5	dBm
DC Voltage	$V_{DC}$	0	V
Storage Temperature Range	$T_{stg}$	-40 to +105	°C
Operable Temperature Range	$T_A$	-40 to +105	°C

### 5-2. Electronic Characteristics

Characteristic		Min.	Typ.	Max.	Unit
Center Frequency	$f_C$	--	240.00	--	MHz
Insertion Loss	$IL$	--	3.5	4.5	dB
	239.50 MHz .... 240.50 MHz				
1dB Bandwidth	$BW_1$		3.75		MHz
35dB Bandwidth	$BW_{35}$			9	MHz
Passband Ripple	$\Delta\alpha$	--	--	1.5	dB
	239.50 MHz .... 240.50 MHz				
Absolute Attenuation	$\alpha$				
	200.00 MHz .... 230.00 MHz	42	60	--	dB
	245.00 MHz .... 255.00 MHz	28	40	--	dB
	255.00 MHz .... 280.00 MHz	42	65	--	dB

**ⓘ CAUTION: Electrostatic Sensitive Device. Observe precautions for handling!**

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#### NOTE:

1. The frequency  $f_C$  is defined as the midpoint between the 3dB frequencies.
2. Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture that is connected to a 50Ω test system with VSWR≤1.2:1.
3. Unless noted otherwise, specifications apply over the entire specified operating temperature range.
4. The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without notice.
5. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
6. Our liability is only assumed for the Surface Acoustic Wave (SAW) component(s) per se, not for applications, processes and circuits implemented within components or assemblies.

In line with our ongoing policy of product evolution and improvement, the above specification may subject to change without notice

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