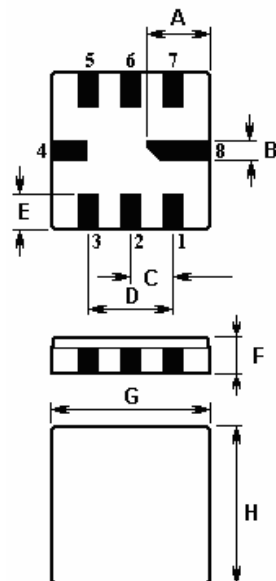


This specification is applied to SAW filters ACTF2005/155.0/QCC8C (155MHz), AND ACTF2006/163.0/QCC8C (163MHz) and ACTF378/281.0/QCC8C (281MHz) for pager applications.

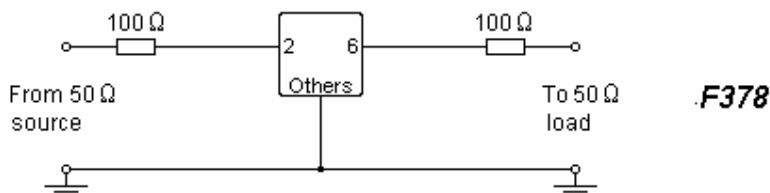
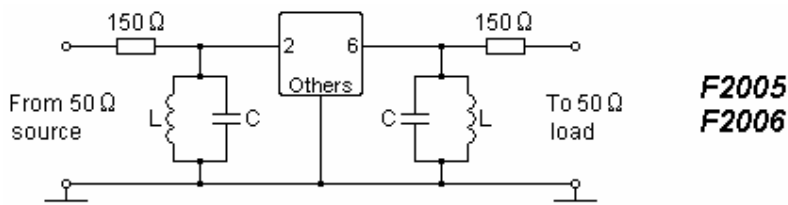
## 1. Package Dimension (QCC8C)



Pin	Configuration
2	Input / Output
6	Output / Input
1,3, 5,7	To be Grounded
4,8	Case Ground

Sign	Data (unit: mm)	Sign	Data (unit: mm)
A	2.08	E	1.20
B	0.60	F	1.35
C	1.27	G	5.00
D	2.54	H	5.00

## 2. Test Circuits



In keeping with our ongoing policy of product evolution and improvement, the above specification is subject to change without notice.

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### 3. Performance

#### 3-1.Maximum Ratings

Rating		Value
DC Voltage	$V_{DC}$	+15 V max.
AC Voltage	$V_{PP}$	10V 50Hz / 60Hz
Storage temperature	$T_{stg}$	-45 °C to +85 °C
Operation temperature	$T_A$	-10 °C to +65 °C
RF Power Dissipation	$P$	0 dBm

#### 3-2.Electrical characteristics

Item	F2005	F2006	F378	Unit
<b>Centre Frequency</b>	155.0	163.0	281.0	MHz
<b>Insertion Loss</b>				
$f_C$ -100.0MHz to $f_C$ -46.8MHz	50 min.	50 min.	50 min.	dB
$f_C$ -46.8MHz to $f_C$ -38.8MHz	50 min.	50 min.	50 min.	dB
$f_C \pm 4.0$ MHz	6.5 max.	6.5 max.	4.5 max.	dB
$f_C$ +38.8MHz to $2.5 \times f_C$	42 min.	42 min.	45 min.	dB
<b>Input/Output Impedance</b>	210 // -12.3	210 // -11.0	150 // 0	$\Omega$ // pF

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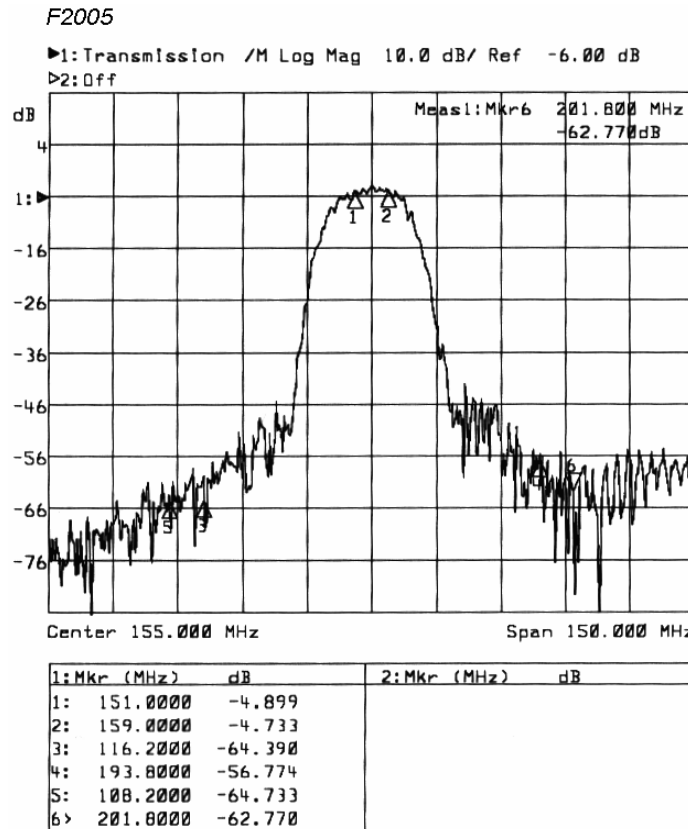
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## 4. Typical Frequency Response



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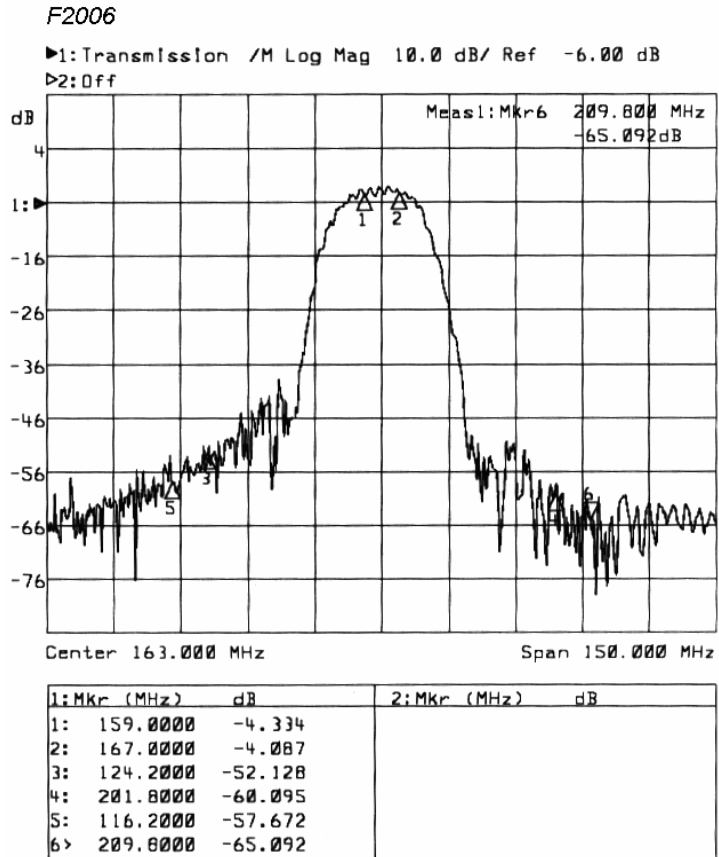
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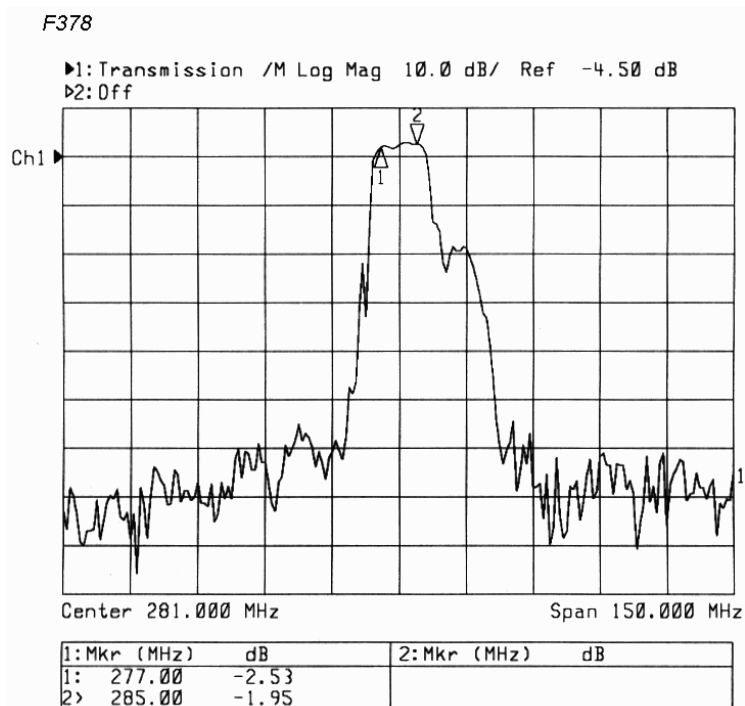
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**ⓘ CAUTION: Electrostatic Sensitive Device. Observe precautions for handling!**

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  $50 \Omega$  test system with  $VSWR \leq 1.2:1$ . The test fixture L and C are adjusted for minimum insertion loss at the filter centre frequency,  $f_c$ . Note that insertion loss, bandwidth, and passband shape are dependent on the impedance matching component values and quality.
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.

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