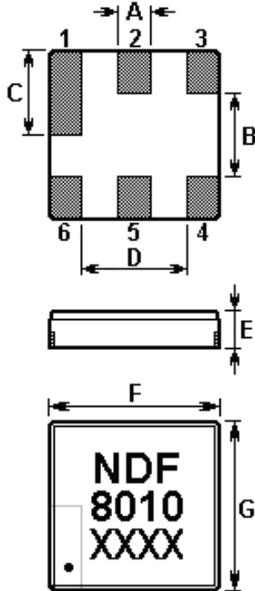


The **NDF8010** is a low-loss, compact, and economical surface-acoustic-wave (**SAW**) RF filter in a surface-mount ceramic **DCC6C** case for AMPS, CDMA and TDMA applications.

1. Package Dimensions (DCC6C)



| Pin | Configuration |
|--------|----------------|
| 2 | Input / Output |
| 5 | Output / Input |
| others | Case Ground |

| Sign | Data (unit: mm) | Sign | Data (unit: mm) |
|------|-----------------|------|-----------------|
| A | 0.6 | E | 1.1 |
| B | 1.5 | F | 3.0 |
| C | 1.5 | G | 3.0 |
| D | 1.8 | | |

2. Marking



2-1. N D F

- The characters “ND” indicates our company’s mark for short
- The third character “F” indicates the type of SAW component
Including: F(filter), R(resonator) etc.

2-2. 8 0 1 0

- The “8010” indicates the model name of SAW component

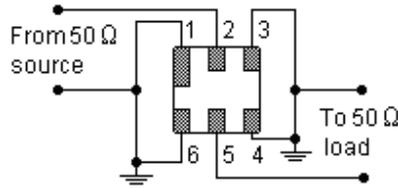
2-3. X X X X

- | |_____ The year of manufacturing
- | 2003 --- 03, 2004 --- 04, 2005 --- 05 etc.
- |_____ The XX'th week in a year

2-4. •

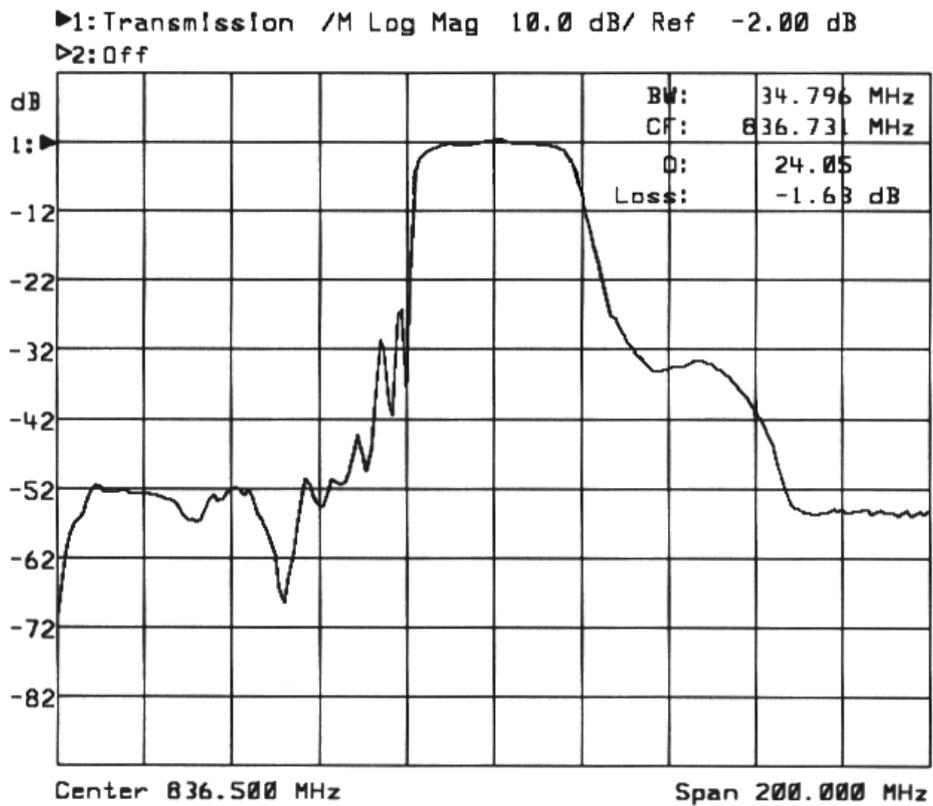
- The dot indicates terminal 1

3. Test Circuit



No impedance matching required for operation at 50 Ω .

4. Frequency Characteristics



5. Performance

5-1. Maximum Ratings

| Rating | Value | Unit |
|-----------------------------|------------|------|
| Input Power Level | 10 | dBm |
| DC Voltage | 12 | V |
| Storage Temperature Range | -40 to +85 | °C |
| Operating Temperature Range | -10 to +65 | °C |

5-2. Electronic Characteristics

| Parameter | Minimum | Typical | Maximum | Unit |
|---|----------------|----------------|----------------|----------------|
| Center Frequency f_C | -- | 836.500 | -- | MHz |
| 3dB Bandwidth BW_3 | -- | ± 17.4 | -- | MHz |
| Usable Bandwidth BW_{UES} | -- | ± 12.5 | -- | MHz |
| Insertion Loss 824.00 MHz 849.00 MHz IL | -- | 2.7 | 3.5 | dB |
| Amplitude Variation (p-p) 824.00 MHz 849.00 MHz $\Delta \alpha$ | -- | 0.85 | 1.5 | dB |
| Absolute Attenuation α DC 800.00 MHz 869.00 MHz 925.00 MHz 925.00 MHz 2000.0 MHz | 40 28 40 | 50 32 45 | -- -- -- | dB dB dB |
| Input / Output Impedance | 50 | | | Ω |

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

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1. 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 $VSWR \leq 1.2:1$. The test fixture L and C are adjusted for minimum insertion loss at the filter center frequency, f_C . Note that insertion loss, bandwidth, and passband shape are dependent on the impedance matching component values and quality.
2. Unless noted otherwise, specifications apply over the entire specified operating temperature range.
3. The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without notice.
4. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
5. 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.
6. For questions on technology, prices and delivery, please contact our sales offices or e-mail winnsky@winnsky.com