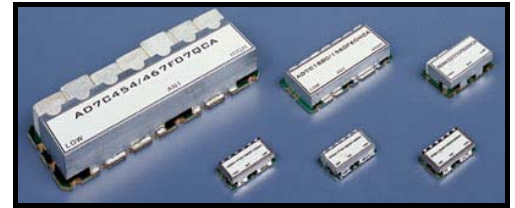


## Features

- Small and light size
- Low insertion loss for using high Q-value resonators
- Excellent temperature stability
- Excellent mechanical structure
- Good selectivity
- Suitable for surface mount and reflow soldering

## AD Series



## Electronic Characteristics

| Part Number                                | Center Freq.<br>$f_o$ (MHz) |        | Pass Bandwidth<br>(MHz) | Insertion Loss<br>(dB max) | VSWR<br>max | Stop Band Attenuation<br>(dB min) | Dimension<br>W × L × H (mm) | Applications |
|--------------------------------------------|-----------------------------|--------|-------------------------|----------------------------|-------------|-----------------------------------|-----------------------------|--------------|
| AD8C830/875F10QCA                          | Tx                          | 830.0  | $f_o \pm 5.0$           | 2.0                        | 1.5         | 48 ( $f_r \pm 5.0$ )              | 100 × 34 × 14               | China CDMA   |
|                                            | Rx                          | 875.0  | $f_o \pm 5.0$           | 2.0                        | 1.5         | 50 ( $f_i \pm 5.0$ )              |                             |              |
| AD6A1950/2140F60DCA<br>AE6A1950/2140F60DCA | Tx                          | 1950.0 | $f_o \pm 30.0$          | 2.8                        | 1.8         | 40 ( $f_r \pm 30.0$ )             | 21 × 15 × 4.5               | IMT-2000     |
|                                            | Rx                          | 2140.0 | $f_o \pm 30.0$          | 2.5                        | 1.8         | 48 ( $f_i \pm 30.0$ )             |                             |              |
| AE6A902/947F25DCA                          | Tx                          | 902.5  | $f_o \pm 12.5$          | 2.4                        | 1.7         | 32 ( $f_r \pm 12.5$ )             | 21 × 15 × 4.5               | GSM          |
|                                            | Rx                          | 947.5  | $f_o \pm 12.5$          | 3.2                        | 1.8         | 30 ( $f_i \pm 12.5$ )             |                             |              |
| AD8A3430/3530F60FCA                        | Tx                          | 3430.0 | $f_o \pm 30.0$          | 6.5                        | 2.0         | 18 ( $f_r \pm 30.0$ )             | 36 × 44 × 5.5               | MMDS         |
|                                            | Rx                          | 3530.5 | $f_o \pm 30.0$          | 6.5                        | 2.0         | 18 ( $f_i \pm 30.0$ )             |                             |              |
| AD7A1880/1960F60DCA                        | Tx                          | 1880.0 | $f_o \pm 30.0$          | 2.6                        | 1.8         | 25 ( $f_r \pm 30.0$ )             | 23 × 13 × 4.5               | US-PCS       |
|                                            | Rx                          | 1960.0 | $f_o \pm 30.0$          | 3.5                        | 1.8         | 22 ( $f_i \pm 30.0$ )             |                             |              |
| AD4A1227/1575S20KCA                        | Tx                          | 1227.0 | $f_o \pm 10.0$          | 1.0                        | 1.7         | 40 ( $f_r \pm 10.0$ )             | 26 × 15 × 7.5               | GPS          |
|                                            | Rx                          | 1575.0 | $f_o \pm 10.0$          | 1.0                        | 1.7         | 40 ( $f_i \pm 10.0$ )             |                             |              |
| AD7A836/881F25DCA                          | Tx                          | 836.5  | $f_o \pm 12.5$          | 2.6                        | 1.7         | 40 ( $f_r \pm 12.5$ )             | 23 × 15 × 4.5               | Korea CDMA   |
|                                            | Rx                          | 881.5  | $f_o \pm 12.5$          | 3.7                        | 1.8         | 50 ( $f_i \pm 12.5$ )             |                             |              |
| AD7C830/875F10HCA                          | Tx                          | 830.0  | $f_o \pm 5.0$           | 2.5                        | 1.5         | 50 ( $f_r \pm 5.0$ )              | 47 × 19 × 7.0               | China CDMA   |
|                                            | Rx                          | 875.0  | $f_o \pm 5.0$           | 2.5                        | 1.5         | 55 ( $f_i \pm 5.0$ )              |                             |              |
| AD9C830/875F10KCA                          | Tx                          | 830.0  | $f_o \pm 5.0$           | 2.8                        | 1.5         | 60 ( $f_r \pm 5.0$ )              | 57 × 19 × 7.5               | GSM          |
|                                            | Rx                          | 875.0  | $f_o \pm 5.0$           | 2.5                        | 1.5         | 60 ( $f_i \pm 5.0$ )              |                             |              |
| AD9C902/947F25HCA                          | Tx                          | 902.5  | $f_o \pm 12.5$          | 4.3                        | 1.8         | 42 ( $f_r \pm 12.5$ )             | 47 × 19 × 7.0               | IMT-2000     |
|                                            | Rx                          | 947.5  | $f_o \pm 12.5$          | 3.8                        | 1.8         | 40 ( $f_i \pm 12.5$ )             |                             |              |
| AD9C902/947F25KCA                          | Tx                          | 902.5  | $f_o \pm 12.5$          | 3.1                        | 1.5         | 44 ( $f_r \pm 12.5$ )             | 57 × 19 × 7.5               | GSM          |
|                                            | Rx                          | 947.5  | $f_o \pm 12.5$          | 3.1                        | 1.5         | 45 ( $f_i \pm 12.5$ )             |                             |              |
| AD9C1950/2140F60HCA                        | Tx                          | 1950.0 | $f_o \pm 30.0$          | 2.6                        | 1.8         | 48 ( $f_r \pm 30.0$ )             | 47 × 18 × 7.0               | IMT-2000     |
|                                            | Rx                          | 2140.0 | $f_o \pm 30.0$          | 2.0                        | 1.8         | 52 ( $f_i \pm 30.0$ )             |                             |              |
| AD9C1747/1842F75KCA                        | Tx                          | 1747.5 | $f_o \pm 37.5$          | 3.8                        | 1.5         | 25 ( $f_r \pm 37.5$ )             | 47 × 18 × 7.0               | DCS          |
|                                            | Rx                          | 1842.5 | $f_o \pm 37.5$          | 3.8                        | 1.5         | 18 ( $f_i \pm 37.5$ )             |                             |              |
| AD10C1747/1842F75KCA                       | Tx                          | 1747.5 | $f_o \pm 37.5$          | 2.5                        | 1.5         | 30 ( $f_r \pm 37.5$ )             | 47 × 18 × 7.0               | DCS          |
|                                            | Rx                          | 1842.5 | $f_o \pm 37.5$          | 2.5                        | 1.5         | 25 ( $f_i \pm 37.5$ )             |                             |              |

Note: Please consult VTC support for other frequencies and specifications that are not listed above.

## Method of Definition

**AD** **4** **A** **830/875** **F** **10** **Q** **C** **A**

AD : AD Dielectric Filter  
 4 : Number of holes  
 A : Notch type  
 830 : Center frequency in MHz  
 F : PCB mount type

10 : Bandwidth in MHz  
 Q : Dimensions  
 C : Hole structure  
 A : Versions