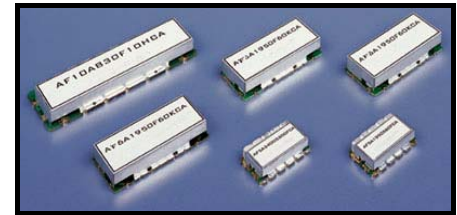


Features

- 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

**AF Series**



Electronic Characteristics

Part Number	Center Freq. $f_0$ (MHz)	Pass Bandwidth (MHz)	IL (dB) max	Ripple (dB) max	VSWR max	Stop Band Attenuation (dB) min	Dimension W x L x H (mm)	Applications
AF3A830S10KCA	830.0	$f_0 \pm 5.0$	1.5	0.3	1.5	30 ( $f_0 \pm 50$ )	20.5x15x7.5	China CDMA
AF3A875S10KCA	875.0	$f_0 \pm 5.0$	1.5	0.3	1.5	30 ( $f_0 \pm 50$ )	20.5x15x7.5	
AF4A830S10DCA	830.0	$f_0 \pm 5.0$	3.0	0.8	1.5	35 ( $f_0 \pm 50$ )	13.0x16x4.5	
AF4A875S10DCA	875.0	$f_0 \pm 5.0$	3.0	0.8	1.5	35 ( $f_0 \pm 50$ )	13.0x16x4.5	
AF3A902S25DCA	902.5	$f_0 \pm 12.5$	2.5	1.0	1.7	12 ( $f_0 \pm 32.5$ )	10.0x14x4.5	GSM
AF4A947S25DCA	974.5	$f_0 \pm 12.5$	2.5	1.0	1.7	12 ( $f_0 \pm 32.5$ )	10.0x14x4.5	
AF4A1950S60DCA	1950.0	$f_0 \pm 30.0$	3.0	1.0	1.5	35 ( $f_0 + 160$ )	13.5x12.5x4.5	IMT-2000
AF4A2140S60DCA	2140.0	$f_0 \pm 30.0$	3.0	1.0	1.5	45 ( $f_0 - 160$ )	13.5x12.5x4.5	
AF4A1747S75DCA	1747.5	$f_0 \pm 37.5$	3.0	1.3	1.8	50 ( $f_0 \pm 200$ )	13.0x10x4.5	DCS
AF4A1842S75DCA	1842.5	$f_0 \pm 37.5$	3.0	1.3	1.8	50 ( $f_0 \pm 200$ )	13.0x10x4.5	
AF4A1880S60DCA	1880.0	$f_0 \pm 30.0$	2.5	1.0	1.8	20 ( $f_0 \pm 80$ )	13.0x10x4.5	US-PCS
AF4A1960S60DCA	1960.0	$f_0 \pm 30.0$	2.5	1.0	1.8	20 ( $f_0 \pm 80$ )	13.0x10x4.5	
AF4A836S25DCA	836.5	$f_0 \pm 12.5$	3.0	0.6	1.5	20 ( $f_0 + 32.5$ )	13.0x16x4.5	Korea CDMA
AF4A881S25DCA	881.5	$f_0 \pm 12.5$	3.0	0.6	1.5	20 ( $f_0 - 32.5$ )	13.0x10x4.5	
AF4A830F10KCB	830.0	$f_0 \pm 5.0$	3.0	1.0	1.5	50 ( $f_0 + 45$ )	25.0x14x7.0	C-CDMA
AF4A875F10KCB	875.0	$f_0 \pm 5.0$	3.0	1.0	1.5	50 ( $f_0 - 45$ )	25.0x14x7.0	
AF3A830F10DCA	830.0	$f_0 \pm 5.0$	2.6	1.0	2.0	12 ( $f_0 \pm 25$ )	10.0x14.6x4.5	
AF3A875F10DCA	875.0	$f_0 \pm 5.0$	2.6	1.0	2.0	12 ( $f_0 \pm 25$ )	10.0x14.6x4.5	
AF3A902F25DCB	902.5	$f_0 \pm 12.5$	2.2	0.6	2.0	12 ( $f_0 \pm 32.5$ )	10.0x14x4.5	GSM
AF3A947F25DCB	947.5	$f_0 \pm 12.5$	2.2	0.6	2.0	12 ( $f_0 \pm 32.5$ )	10.0x14x4.5	
AF4A1950S60DCC	1950.0	$f_0 \pm 30.0$	2.5	1.0	1.5	30 ( $f_0 + 160$ )	13.0x12x4.5	W-CDMA
AF4A2140S60DCB	2140.0	$f_0 \pm 30.0$	2.5	1.0	1.5	30 ( $f_0 - 160$ )	13.0x12x4.5	
AF3A1747F75DCA	1747.5	$f_0 \pm 37.5$	2.0	1.0	2.0	8 ( $f_0 + 80$ )	10.0x8x4.5	DCS
AF3A1842F75DCA	1842.5	$f_0 \pm 37.5$	2.0	1.0	2.0	8 ( $f_0 - 80$ )	10.0x8x4.5	
AF4A1880S60DCA	1880.0	$f_0 \pm 30.0$	2.5	1.0	1.8	20 ( $f_0 \pm 80$ )	13.0x12x4.5	US-PCS
AF4A1960S60DCC	1960.0	$f_0 \pm 30.0$	2.5	1.0	1.8	20 ( $f_0 \pm 80$ )	13.0x12x4.5	
AF3A813F15DCC	813.5	$f_0 \pm 7.5$	2.6	1.0	2.0	12 ( $f_0 \pm 27.5$ )	10.0x14x4.5	TRS
AF3A858F15DCC	858.5	$f_0 \pm 7.5$	2.6	1.0	2.0	12 ( $f_0 \pm 27.5$ )	10.0x14x4.5	
AF5A830S10HCA	830.0	$f_0 \pm 5.0$	3.0	0.5	1.5	55 ( $f_0 \pm 50$ )	26.0x16x6.5	China CDMA
AF5A875S10HCA	875.0	$f_0 \pm 5.0$	3.0	0.5	1.5	55 ( $f_0 \pm 50$ )	26.0x16x6.5	
AF6A830S10KCA	830.0	$f_0 \pm 5.0$	4.0	0.5	1.5	60 ( $f_0 \pm 50$ )	38.0x23x7.5	
AF6A875S10KCA	875.0	$f_0 \pm 5.0$	4.0	0.5	1.5	60 ( $f_0 \pm 50$ )	38.0x23x7.5	
AF5B902F25HCA	902.5	$f_0 \pm 12.5$	3.0	1.0	1.5	38 ( $f_0 + 32.5$ )	26.0x16x6.5	GSM
AF5A947F25HCA	947.5	$f_0 \pm 12.5$	3.0	1.0	1.5	38 ( $f_0 - 32.5$ )	26.0x16x6.5	

➤ Continued on the following page.

# ARRAY BPF (AF TYPE)



Continued from the preceding page.

Part Number	Center Freq. $f_0$ (MHz)	Pass Bandwidth (MHz)	IL (dB) max	Ripple (dB) max	VSWR max	Stop Band Attenuation (dB) min	Dimension W x L x H (mm)	Applications
AF5A1950S60HCA	1950.0	$f_0 \pm 30.0$	2.5	1.0	1.5	55 ( $f_0 \pm 160$ )	23.0x15x5.5	IMT-2000
AF5A2140S60HCA	2140.0	$f_0 \pm 30.0$	2.5	1.0	1.5	55 ( $f_0 \pm 160$ )	23.0x15x5.5	
AF6A1747F75KCA	1747.5	$f_0 \pm 37.5$	3.5	3.0	1.5	25 ( $f_0 \pm 57.5$ )	38.0x16x8.0	DCS
AF6A1842F75KCA	1842.5	$f_0 \pm 37.5$	3.5	3.0	1.5	25 ( $f_0 \pm 57.5$ )	38.0x16x8.0	
AF4A409F07KCA	409.5	$f_0 \pm 3.5$	3.0	0.8	1.7	30 ( $f_0 + 13.5$ )	26.0x24x7.5	WLL
AF4A426F07KCA	426.5	$f_0 \pm 3.5$	3.0	0.8	1.7	30 ( $f_0 - 13.5$ )	26.0x24x7.5	
AF7A1880F60KCA	1880.0	$f_0 \pm 30.0$	3.5	1.5	1.5	50 ( $f_0 + 50$ )	44.0x16x8.0	US-PCS
AF7A1960F60KCA	1960.0	$f_0 \pm 30.0$	3.5	1.5	1.5	50 ( $f_0 - 50$ )	44.0x16x8.0	
AF6A830F10KCA	830.0	$f_0 \pm 5.0$	4.0	0.5	1.5	60 ( $f_0 \pm 50$ )	38.0x18.5x7.5	C-CDMA
AF6A875F10KCA	875.0	$f_0 \pm 5.0$	4.0	0.5	1.5	60 ( $f_0 \pm 50$ )	38.0x18.5x7.5	
AF5B902F25HCA	902.5	$f_0 \pm 12.5$	3.0	1.0	1.5	38 ( $f_0 + 32.5$ )	26.0x16x6.5	GSM
AF5B947F25HCA	947.5	$f_0 \pm 12.5$	3.0	1.0	1.5	38 ( $f_0 - 32.5$ )	26.0x16x6.5	
AF5A1950F60HCA	1950.0	$f_0 \pm 30.0$	2.5	1.0	1.5	55 ( $f_0 \pm 160$ )	26.0x14x6.5	W-CDMA
AF5A2140F60HCA	2140.0	$f_0 \pm 30.0$	2.5	1.0	1.5	55 ( $f_0 \pm 160$ )	26.0x14x6.5	
AF5B1880F60KCA	1880.0	$f_0 \pm 30.0$	3.5	1.5	1.5	30 ( $f_0 + 50$ )	32.0x17x7.5	US-PCS
AF5B1960F60KCA	1960.0	$f_0 \pm 30.0$	3.5	1.5	1.5	30 ( $f_0 - 50$ )	32.0x17x7.5	
AF9A870F02KCA	870.0	$f_0 \pm 1.0$	15.0	2.0	1.5	70 ( $f_0 \pm 10$ )	56.0x20x7.5	Narrow Band
AF9A990F02KCA	990.0	$f_0 \pm 3.0$	12.0	2.0	1.5	50 ( $f_0 \pm 10$ )	56.0x20x7.5	
AF5A1100F400HCA	1100.0	$f_0 \pm 200.0$	1.5	1.0	1.8	40 ( $f_0 - 400$ )	26.0x14x6.5	Wide Band
AF6A1000F350KCA	1000.0	$f_0 \pm 175.0$	2.0	0.8	1.5	35 ( $f_0 - 275$ )	38.0x18.5x7.5	
AF6A1237F575KCA	1237.5	$f_0 \pm 287.5$	2.0	0.5	1.5	10 ( $f_0 - 337.5$ )	38.0x18.5x7.5	
AF10A975F250KCA	975.0	$f_0 \pm 125.0$	3.5	1.7	1.8	40 ( $f_0 \pm 170$ )	62.0x20x7.5	

Note: Please consult VTC support for other frequencies and specification that is not listed above.

## Method of Definition

**AF 4 A 2025 S 60 D C A**

- AF : AF type dielectric filter
- 4 : Number of holes
- A : Notch type
- 2025 : Center frequency in MHz
- S : PCB mount type
- 60 : Bandwidth in MHz
- D : Dimensions
- C : Hole structure
- A : Versions