



FEATURES

- Perfectly suited for WiFi, Bluetooth, Zigbee Applications
- Small sizes, 0603
- Rugged LTCC construction
- Excellent Power Handling, 1.75 to 2.5 Watts
- Good Rejection, 20-45 dB typ.
- Low Cost



PRODUCT OVERVIEW

Mini-Circuits' K1-HFCW+ is a designer kit consisting of 10 tiny ceramic high pass filter models from the HFCW series, which support a variety of applications. 5 units are included per model, for a total of 50 units in the kit. HFCW models provide good insertion loss and very good stop band rejection due to strategically constructed layout with minimal interaction between components. They provide a wide operating temperature range from -55 to +125°C. Housed in a tiny 0603 ceramic form factor with wrap-around terminations, these filters are ideal for dense PCB layouts and with minimal performance variation due to parasitics.

K1-HFCW+ ELECTRICAL SPECIFICATIONS

(10 models, 5 of each, 50 Total)

Model ¹	Passband		Stopband 1		Additional Stopbands		Case Style
	(MHz)	Ins. Loss (dB) Typ.	(MHz)	Rejection (dB) Typ.	(MHz)	Rejection (dB) Typ.	
HFCW-1132+	13000-14000	2	DC-7000	36	7000-9500	36	JC0603C
	14000-18000	0.9					
	18000-20000	1.5					
HFCW-242+	2400-3300	1.5	10-1650	25	-	-	JC0603C-4
HFCW-422+	4200-9000	1.2	10-2600	25	-	-	JC0603C-7
HFCW-5000+	5500-7000	2.2	DC-3000	45	3000-4000	40	JC0603C
	7000-13500	0.9					
	13500-20000	2.0					
HFCW-5500+	6100-7400	2.6	DC-3300	44	3300-4400	45	JC0603C
	7400-13500	0.9					
	13500-20000	1.4					
HFCW-6010+	6400-7700	2.0	DC-3500	44	3500-4900	34	JC0603C
	7700-14000	0.9					
	14000-20000	2.0					
HFCW-7000+	7600-9000	2.1	DC-4500	45	4500-5500	34	JC0603C
	9000-15000	1.2					
	15000-20000	1.1					
HFCW-7500+	8200-9500	1.8	DC-4000	44	4000-6000	34	JC0603C
	9500-15000	0.8					
	15000-21000	1.0					
HFCW-9000+	10000-11500	2.0	DC-6000	34	6000-7200	34	JC0603C
	11500-17000	0.9					
	17000-19500	1.7					
HFCW-9500+	10500-12000	1.9	DC-6000	36	6000-7800	36	JC0603C
	12000-17500	0.9					
	17500-20000	1.2					

1. See individual product data sheets for more details



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Humidity	90 to 95% RH, 240 hours, 50°C	MIL-STD-202, Method 103, Condition A, Except 50°C and end-point electrical test done within 12 hours
Solder Reflow Heat	Sn-Pb Eutetic Process: 225°C peak Pb-Free Process 245° - 250°C peak	J-STD-020, Table 4-1, 4-2 and 5-2, Figure 5-1
Solderability	10X Magnification	J-STD-002, Para 4.2.5, Test S, 95% Coverage
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	50g, 11 ms, 1/2-sine, 18 shocks: 3 each direction, each of 3 axes	MIL-STD-202, Method 213, Condition A