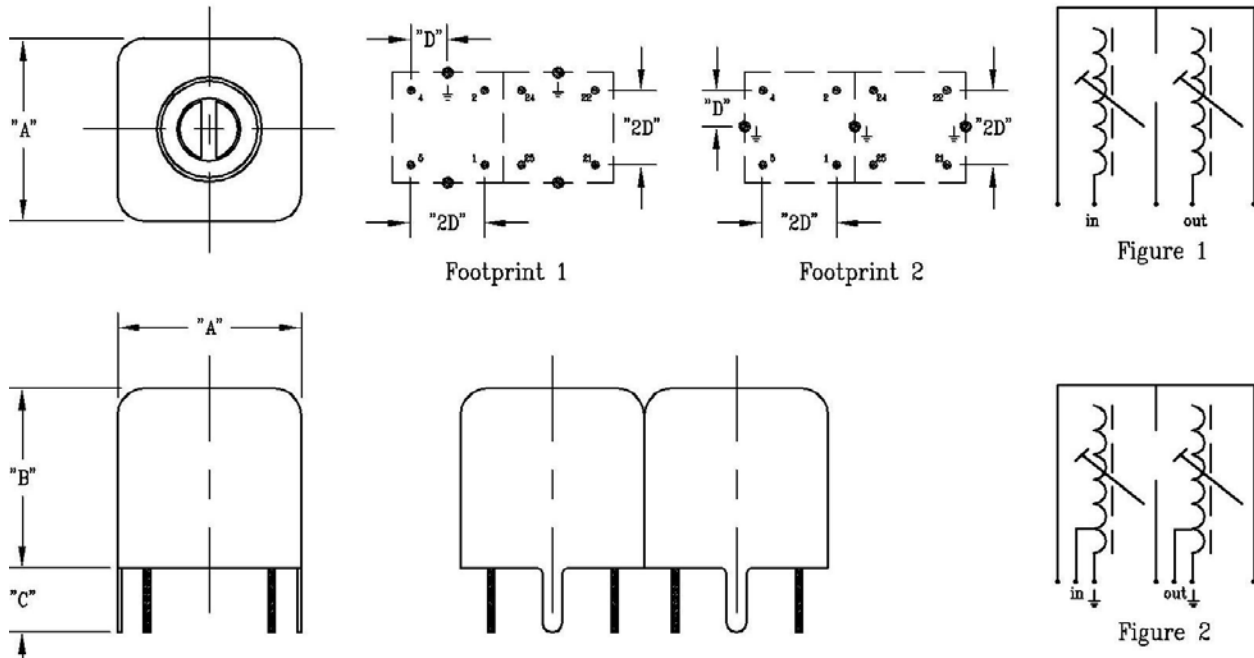
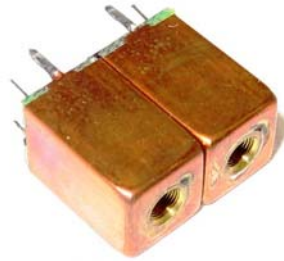


HBXX-2XXX

2-Circuit Bandpass Filter

- Double resonator bandpass filter
- Five sizes to choose from
- Lead pull strength, 5N
- Temperature range, -25 °C to 85 °C
- Soldering temperature 235 °C, 5 seconds
- Resistance to soldering heat 260 °C, 5 seconds
- Temperature coefficient (from -25 °C to 85 °C), ~ $\pm 50 \times 10^{-6} / ^\circ\text{K}$
- RoHS compliant per 2002/95/EC



P/N	"A" " [mm]	"B" " [mm]	"C" " [mm]	"D" " [mm]
HB7A-XXXX	0.30 [7,5]	0.49 [12,5]	0.14 [3,5]	0.10 [2,5]
HB7B-XXXX	0.30 [7,5]	0.55 [14,0]	0.14 [3,5]	0.10 [2,5]
HB7C-XXXX	0.30 [7,5]	0.49 [12,5]	0.14 [3,5]	0.09 [2,25]
HB10A-XXXX	0.40 [10,0]	0.61 [15,5]	0.14 [3,5]	0.13 [3,2]
HB10B-XXXX	0.40 [10,0]	0.63 [16,0]	0.14 [3,5]	0.13 [3,2]

Prefix (size)	Dash #	Turns (#)	"F" min (MHz)	"F" max (MHz)	Window dia. [mm]	Fig./F.P. (#)	Input (#)	Output (#)
HB10A	-2001	9.0	395	440	[6,5]	1 / 1	4	21
HB7A	-2002	10.5	435	460	[3,8]	1 / 1	4	21
HB7A	-2003	10.5	438	460	[5,3]	1 / 1	4	21
HB10A	-2004	8.0	445	490	[6,5]	1 / 1	5	22
HB7A	-2005	10.5	445	470	[3,8]	1 / 1	4	21
HB7A	-2006	10.5	445	470	[3,8]	1 / 1	4	22
HB7A	-2007	10.0	455	480	[3,8]	1 / 1	4	21
HB7A	-2008	10.0	465	490	[3,8]	1 / 1	4	21
HB7A	-2009	10.0	465	490	[4,3]	1 / 1	5	22
HB7A	-2010	10.0	465	490	[3,8]	1 / 1	4	22
HB7A	-2011	10.0	465	490	[3,8]	1 / 1	5	22
HB7A	-2012	10.0	465	490	[4,3]	1 / 1	4	22
HB10A	-2013	7.5	470	515	[6,5]	1 / 1	5	22
HB7A	-2014	9.5	490	515	[4,8]	1 / 1	4	22
HB7A	-2015	9.0	510	535	[4,3]	1 / 1	4	21
HB10B	-2101	11.0	270	310		1 / 2	4	24
HB7B	-2102	10.5	365	370		1 / 2	4	24
HB10B	-2103	9.0	370	390		1 / 2	4	24
HB7B	-2104	10.0	380	400		1 / 2	4	24
HB10B	-2105	8.5	390	410		1 / 2	4	24
HB7B	-2106	9.5	405	430		1 / 2	4	24
HB7A	-2107	10.5	435	460	[4,5]	1 / 2	1	24
HB7A	-2108	10.5	435	460	[4,1]	1 / 2	4	21
HB7A	-2109	10.5	435	460	[4,5]	1 / 2	1	22
HB7A	-2110	10.5	435	460	[4,1]	1 / 2	2	22
HB7A	-2111	10.5	435	460	[4,5]	1 / 2	2	22
HB7A	-2112	10.5	435	460	[4,1]	1 / 2	1	21
HB7A	-2113	10.5	435	460	[4,5]	1 / 2	5	22
HB7A	-2114	10.5	440	465	[4,1]	1 / 2	1	21
HB7A	-2115	10.5	445	470	[4,1]	1 / 2	1	21
HB7A	-2116	10.5	445	470	[4,5]	1 / 2	2	22
HB7A	-2117	10.5	445	470	[4,5]	1 / 2	5	22
HB7A	-2118	10.5	445	470	[4,1]	1 / 2	2	22
HB7A	-2119	10.0	455	480	[4,5]	1 / 2	1	22
HB7A	-2120	10.0	455	480	[4,1]	1 / 2	2	22
HB7A	-2121	10.0	455	480	[4,1]	1 / 2	4	21
HB7A	-2122	10.0	460	485	[4,1]	1 / 2	2	22
HB7A	-2123	10.0	460	485	[4,1]	1 / 2	1	21
HB7A	-2124	10.0	465	490	[4,5]	1 / 2	1	24
HB7A	-2125	10.0	465	490	[4,5]	1 / 2	2	22
HB7A	-2126	10.0	465	490	[4,1]	1 / 2	4	21
HB7A	-2127	10.0	465	490	[4,1]	1 / 2	2	22
HB7A	-2128	10.0	465	490	[4,5]	1 / 2	1	22
HB7A	-2129	10.0	465	490	[4,5]	1 / 2	5	22
HB7A	-2130	10.0	465	490	[4,1]	1 / 2	1	21
HB7A	-2131	9.5	490	515	[4,5]	1 / 2	5	22
HB7A	-2132	9.5	490	515	[4,5]	1 / 2	1	21
HB7A	-2133	9.5	490	515	[4,1]	1 / 2	1	21

Prefix (size)	Dash #	"F" min (MHz)	"F" max (MHz)	BW min (-3db) (MHz)	α_0 max (db)	Fig/F.P. (#)	Input (#)	\pm (#)	Output (#)	\pm (#)	α min (db)	- Δf (MHz)	α min (db)	+ Δf (MHz)
HB10A	-2201	305	340			2/1	4	5	21	22				
HB10B	-2203	320	345	3	4.2	2/1	4	2	21	25	22	8	20	8
HB10A	-2204	365	420	14	2.2	2/1	5	1	22	24	22	30	18	30
HB7B	-2205	370	400	12.5	1.6	2/1	5	1	22	24	26	30	21	30
HB10A	-2206	395	440	10	2.2	2/1	4	5	21	22	28	30	23	30
HB7B	-2207	405	420	11	1.8	2/1	5	1	22	24	24	30	20	30
HB7B	-2208	405	430	9.2	4.0	2/1	5	1	22	24	34	40	25	40
HB7B	-2209	410	460	12	2.0	2/1	5	2	22	25	27	30	22	30
HB7A	-2210	430	450	12	2.2	2/1	5	2	22	25	24	30	24	30
HB7A	-2211	430	450	12	2.0	2/1	5	1	22	24	20	30	20	30
HB7B	-2212	410	460	15	1.5	2/1	5	1	22	24	24	40	20	40
HB10A	-2213	434	474	9	2.5	2/1	4	5	21	22	30	30	24	30
HB7A	-2214	440	460	7.5	3.5	2/1	5	2	22	25	33	30	28	30
HB7B	-2215	440	490	13	2.1	2/1	5	2	22	25	25	30	20	30
HB7A	-2216	450	470	13	2.1	2/1	5	2	22	25	22	30	22	30
HB7B	-2217	442	468	8.7	4.0	2/1	5	1	22	24	35	40	25	40
HB7A	-2218	456	476	14	2.1	2/1	5	2	22	25	20	30	20	30
HB7A	-2219	464	484	15	2.0	2/1	5	2	22	25	20	30	20	30
HB7B	-2220	480	520	11	2.2	2/1	5	2	22	25	25	30	20	30
HB7C	-2222	770	845	32	3.7	2/1	4	5	21	22	16	40	16	40
HB7C	-2223	770	845	32	6.5	2/1	4	5	21	22	14	40	14	40
HB7C	-2224	840	915	18	2.2	2/1	4	5	21	22	16	40	16	40
HB7C	-2225	850	915	32	3.7	2/1	4	5	21	22	19	40	19	40
HB7C	-2226	850	915	16	2.2	2/1	4	5	21	22	16	40	16	40
HB7C	-2227	850	915	32	4.5	2/1	4	5	21	22	12	40	12	40
HB7C	-2228	850	915	16	2.2	2/1	4	5	21	22	16	40	16	40
HB7C	-2229	930	990	30	2.4	2/1	4	5	21	22	14	40	14	40
HB7C	-2230	930	990	16	2.2	2/1	4	5	21	22	16	40	16	40
HB7C	-2231	930	990	16	2.2	2/1	4	5	21	22	16	40	16	40
HB7C	-2232	930	992	38	3.5	2/1	4	5	21	22	10	40	10	40
HB7C	-2233	1010	1090	30	2.0	2/1	4	5	21	22	15	50	12	50
HB7C	-2235	1550	1640	33	2.8	2/1	4	5	21	22	35	100	28	100
HB7C	-2236	1550	1640	33	2.6	2/1	4	5	21	22	35	100	28	100
HB7C	-2237	1640	1740	35	2.5	2/1	4	5	21	22	35	100	25	100
HB7C	-2238	1900	2000	45	2.5	2/1	4	5	21	22	20	200	20	200
HB7C	-2239	2350	2450	65	2.0	2/1	4	5	21	22	20	200	20	200
HB7A	-2301	395	415	11	2.4	2/2	4	2	21	22	25	30	25	30
HB7A	-2302	415	435	12	1.8	2/2	4	5	21	22	20	30	20	30
HB7A	-2303	415	435	13	2.2	2/2	4	2	21	22	22	30	22	30
HB7A	-2304	400	420	18	1.7	2/2	5	1	22	24	17	30	17	30
HB7A	-2305	415	435	12	1.8	2/2	5	1	21	22	20	30	20	30
HB7A	-2306	428	448	6.5	3.4	2/2	4	5	21	22	33	30	30	30
HB7A	-2307	438	458	8.5	1.8	2/2	4	2	21	22	32	30	28	30
HB7A	-2308	438	458	8.5	1.8	2/2	5	4	21	22	32	30	28	30