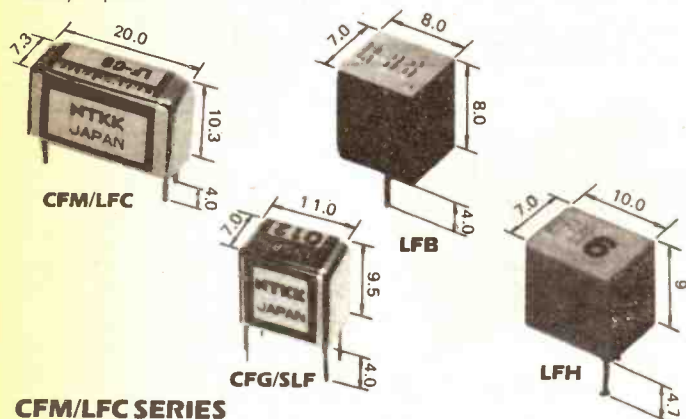


# ambit for communications components

The most comprehensive selection of coils, filters and components for all types of radio communications

## CERAMIC FILTERS FOR 455kHz IFs

Ambit's range of ceramic filters cover most applications for communication and high quality broadcast reception. As far as we are aware, we hold the widest range of ceramic and crystal filter products anywhere in the world, and we will always do our best to assist if the type you want isn't immediately obvious from checking this section. We regret that we cannot generally assist in supplying replacements for imported equipment, unless the manufacturer's type number is available in addition to any 'house' numbers used to identify the parts.



### CFM/LFC SERIES

A medium priced hermetically sealed ladder filter, suitable for most communications applications and high quality broadcast receiver equipment. Similar to the types used in receivers such as the FRG7

Type No.	-6dB BW	-50dB BW	In/Out Impedance (k ohm)	Stock No	Price
CFM455H/LFC6	6	16	1.5	16-45520	5.20
CFM455G/LFC8	8	20	1.5	16-45521	5.20
CFM455F/LFC12	12	24	1.5	16-45522	5.20
CFM455E/LFC15	15	28	1.5	16-45523	5.20
CFM455D/LFC20	20	38	1.5	16-45524	5.20

A high performance filter, similar to those used in the R1000 and FRG7700. Ideal for all low cost SSB filter requirements, and suitable for upgrading existing equipment

CFM455J1	2.6kHz min	8kHz max	2k	16-45513	9.00
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### CFG/SLF SERIES

A miniature high performance filter. Possibly the highest selectivity/size ratio available. Supplied in shield and hermetically sealed case, and recommended for use with designs involving the MC3357/9 and ULN3859 families, due to the excellent stopband performance.

Type No.	-6dB BW	-80dB BW	In/Out Impedance (k ohm)	Stock No	Price
CFG4551/SLFD4	4	10	1k5	16-45542	5.20
CFG455H/SLFD6	6	15	1k5	16-45542	5.20
CFG455G/SLFD8	8	18	1k5	16-45544	5.20
CFG455F/SLFD12	12	25	1k5	16-45546	5.20

### LFB/LFH SERIES

Probably the most popular types of low cost ceramic ladder filter — found in most types of CB transceiver, and an increasing number of designs for commercial mobile radio systems. These filters possess excellent bandpass characteristics, although watch the stop band if you are not using them with some form of 'roofing' selectivity, such as a 2 or 4 pole crystal filter at 10.7MHz/10.695MHz. The impedances of these filters (and most of the other ladder series) is directly matched by such devices as the ULN3859, so extremely compact designs can be achieved at minimum cost. Miniature 455kHz filters. I/P and O/P impedance 2k.

NTK/Murata	-6dB BW (Min)	-40dB (Max)	Stock No	1-24	25-99	100+
LFB4	4kHz	15kHz	16-45511	1.95	1.45	1.10
LFB6/CFU455H	6kHz	18kHz	16-45512	1.95	1.45	1.10
LFB8	8kHz	21kHz	16-45529	1.95	1.45	1.10
LFB10	10kHz	23kHz	16-45514	1.95	1.45	1.10
LFB12/CFU455F	12kHz	26kHz	16-45515	1.95	1.45	1.10
LFH6S/CFW455HT	6kHz	14kHz	16-45525	2.45	1.95	1.55
LFH8S	8kHz	18kHz	16-45526	2.45	1.95	1.55
LFH12S/CFW455FT	12kHz	22kHz	16-45528	2.45	1.95	1.55

## CERAMIC RESONATORS

### Low Cost, Small size alternative to Quartz Crystals

These resonators provide an excellent alternative to costly LF quartz crystals, and are especially suited to use with MPUs, rate generators, remote control systems, dial tone and dial pulse clocks etc. There are two basic types as with crystals — series and parallel resonant types. The majority of 'clock' applications will require the parallel resonant types (CRM), whereas 'bypass' and 'trap' circuits will usually call for the series (CFE) types.

Type	Frequency	Mode	Stock No	1-24	25-99	100+
CRM455	455kHz	parallel	16-45573	0.60	0.48	0.40
CRM460	455kHz	parallel	16-46073	0.60	0.48	0.40
CRM500A	500kHz	parallel	16-50073	0.60	0.48	0.40
CFE455	455kHz	series	16-45575	0.60	0.48	0.40
CRM560	560kHz	parallel	16-56074	0.60	0.48	0.40
CSA1.0MK	1000kHz	parallel	16-10003	0.94	0.84	0.76
455D	455kHz	NB/FM Disc	16-15455	1.20	0.90	0.60

## CRYSTAL FILTERS

We are pleased to be able to extend our range of crystal filters to include the popular 10.695MHz frequency that seems to be universally adopted in the first IF of CB receivers. A transplant of the 2 pole filter in place of the usual ceramic filter can perform the single most significant improvement in blocking and cross mod in most circuits and the popularity of the modification has spurred us to include an 8 pole version for the purist. The 90dB adjacent channel attenuation of the 8 pole series effectively removes all responsibility for blocking and IM related problems from the subsequent stages, and places emphasis on the RF and most crucially the mixers. The 10.7MHz 8 pole SSB filter is featured in the R&EW HF transceiver add-on for the R1000 or FRG7700 receivers and is at last managing to dispell the mystique that surrounds 9.0MHz.

### 2 POLE TYPES

Model	Centre Freq.(MHz)	Band Width(kHz)	Ripple (dB)	Stop Band (kHz)	Term Imp(kR)	Case	Stock No.	Price
10M15A	10.7	15(3dB)	0.5	±25.0(18dB)	3.0	FS12	20-10152	0.99
21M15A	21.0	15(3dB)	0.5	±25.0(17dB)	3.0	FS12	20-21152	3.45
10M08AA	10.695	8kHz	0.5	±25.0(18dB)	1.8	FS12	20-11152	3.49

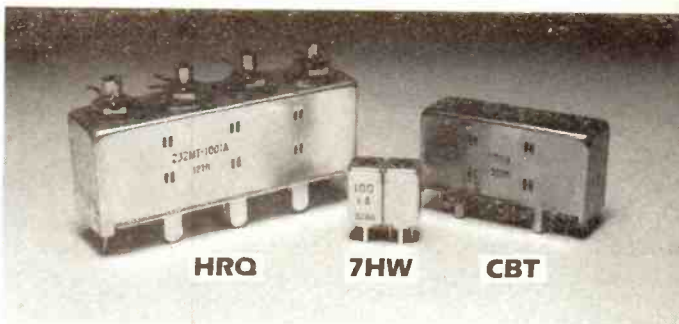
### 8 POLE TYPES

Model	Centre Freq.(MHz)	Band Width(kHz)	Ripple (dB)	Stop Band (kHz)	Term Imp(kR)	Case	Stock No.	Price
10M22D	10.7	2.2(6dB)	2.0	±2.4(60dB)	0.5	FS23	20-10028	17.20
10M8D	10.7	8(6dB)	2.0	±11.0(80dB)	3.0	FS22	20-10088	15.50
10M8DB	10.695	7(3dB)	2.0	±12.5(90dB)	3.3	FS22	20-11088	14.50
10M15D	10.7	15(6dB)	2.0	±20(80dB)	3.0	FS22	20-10158	14.50
21S08DA	21.4	7(3dB)	2.0	±12.5(90dB)	.850	S2	20-02108	15.65

Case Code	L	W	H
FS22	18.5	12	15
FS23	23.0	12	15
S2	11.0	8.5	11.5

## HELICAL FILTERS

### Low cost filters for VHF/UHF



### STOCK TYPES 7HW — 2 CHAMBER

Toko Part No. 7HW	Freq. MHz	Z in/out	1dB BW	Atten./MHz off centre	Ins loss (max)	Stock No.	Price
252MT1001A	435	50	12MHz	23dB+/-30.29dB-30	4dB	17-10011	1.85
252MT1090A	470	50	8MHz	23dB+/-30.27dB-30	5dB	17-10901	1.85
252MN1127A	463	50	12MHz	15dB Min±30MHz	2dB	17-11271	2.25
252MN1111A	432	50	7MHz	18dB Min±30MHz	5dB	17-11111	2.25

### STOCK TYPES HRQ — 4 CHAMBER

Toko Part No. HRQ	Freq. MHz	Z in/out	3dB BW	Atten./MHz off centre	Ins loss (max)	Stock No.	Price
232MT1001A	435	50	10MHz	28dB+/-15.31dB-15	4dB	17-10010	7.90
232MT1021A	470	50	6MHz	28dB+/-15.31dB-15	8dB	17-10210	7.90

### STOCK TYPES CBW — 2 CHAMBER

Toko Part No. CBW	Freq. MHz	Z in/out	1dB BW	Atten./MHz off centre	Ins loss (max)	Stock No.	Price
271MT1006A	145	500	3.0MHz	25dB Min±15MHz	4.5dB	17-10062	3.15
271MT1007A	170	500	3.5MHz	20dB Min±15MHz	4.5dB	17-10072	3.15

### STOCK TYPES CBT — 3 CHAMBER

Toko Part No. CBT	Freq. MHz	Z in/out	3dB BW	Atten./MHz off centre	Ins loss (max)	Stock No.	Price
272MT1006A	145	500	2.8MHz	25dB Min±6MHz	8dB	17-10063	3.15
272MT1007A	170	500	4.0MHz	30dB Min±6MHz	6dB	17-10073	3.15
272MT1019	160	500	3.5MHz	20dB Min±6MHz	6dB	17-10193	3.15
272MT1008	145	50	1.2MHz	30dB Min±6MHz	8dB	17-10083	3.15

## SEE THE COMPLETE CATALOGUE FOR DETAILS OF

- ★ Coaxial relays — PCB and connector types
- ★ TOKO IF transformers
- ★ TOKO block filters for video/radio
- ★ Fixed Inductors
- ★ Quartz crystals