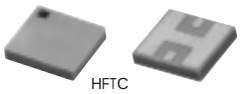
CERAMIC HIGH PASS 1300 to 7000 MHz

BLUE CELL™



NEW!

all specifications at 25°C

◆ MODEL NO.	STOP BAND (MHz) (loss >40dB)	(loss >20dB)	fco (MHz) Nom. (loss 3 dB) Typ.	PASSBAND (MHz) (loss < 1.3 dB)	VSWR (:1) Stopband Typ.	Passband Typ.	POWER[1] INPUT (W)	CASE STYLE Note B	CONNECTION	PRICE $ Qty. (10-49)
HFTC-9R5	DC-600	600-750	950	1300-3500 (loss < 1.4 dB)	18	1.3	14	FR933	nw	3.75
HFTC-16	DC-1030	1030-1300	1580	1900-2700	18	1.3	14	FR933	nw	3.75
HFTC-19	DC-1450	1450-1650	1995	2300-5500	18	1.3	10	FR933	nw	3.75
HFTC-26	DC-1450	1450-2000	2570	(loss < 1.5 dB) 3000-7000	18	1.5	10	FR933	nw	3.75
HFTC-39	DC-1900	1900-3050	3900	4500-5500	18	1.4	10	FR933	nw	3.75

see suggested PCB layout (PL-112) for HFTC models

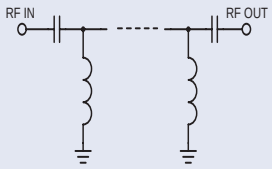
features

- miniature size, 0.15"x0.15"x.028"
- low profile, .028" height
- low pass band insertion loss, 1.0 dB typ.
- high power handling, up to14W

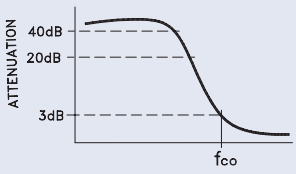
applications

- sub-harmonic rejection of VCO
- can be combined with LPCH and LFTC series to form bandpass filters

HFTC schematic



typical frequency response



model identification

Model	marking
HFTC-9R5	HF7
HFTC-16	HF2
HFTC-19	HF6
HFTC-26	HF11
HFTC-39	HF12

pin connections

see case style outline drawings

PORT	nw
INPUT	2
OUTPUT	5
GND	1,3,4,6
DEMO BOARD	TB-233

NOTES:

* HFCN models are hermetically sealed.

◆ Aqueous washable.

A. Environmental specifications and re-flow soldering information available in General Information Section.

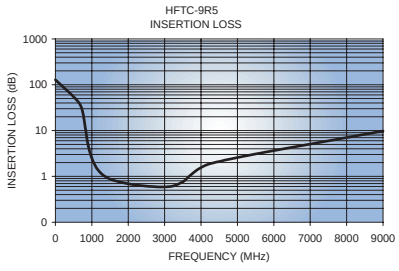
B. Units are non-hermetic unless otherwise noted. For details on case dimensions & finishes see "Case Styles & Outline Drawings".

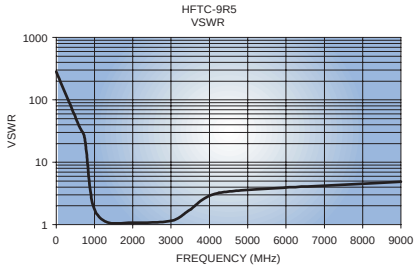
C. Prices and Specifications subject to change without notice.

1. Absolute maximum power, voltage & current ratings, See power input in spec tables above. At 100°C ambient derate linearly to 6W (HFTC-9R5, -16) and to 4W (HFTC-19, -26, -39), to 3W (HFCN models)
2. Operating temperature, -55°C to 100°C.
3. Storage Temperature, -55°C to 125°C, HFTC models, -55°C to 100°C, HFCN models.

Typical Performance Data at 25°C

Freq. (MHz)	Ins. Loss (dB)	VSWR (:1)
1.00	128.65	285.20
600.00	44.78	38.32
750.00	25.06	23.43
950.00	3.28	2.16
1300.00	1.08	1.11
2000.00	0.69	1.08
3000.00	0.59	1.15
3500.00	0.76	1.74
4300.00	1.94	3.28
9000.00	9.82	4.89





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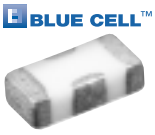
CERAMIC HIGH PASS 760 to 4800 MHz

BLUE CELL™



HFCN

NEW!

all specifications at 25°C

◆ MODEL NO.	STOP BAND (MHz) (loss >40dB)	STOP BAND (MHz) (loss >20dB)	fco (MHz) Nom. (loss 3 dB) Typ.	PASSBAND (MHz) (loss < 1.3 dB)	VSWR (:1) Stopband Typ.	VSWR (:1) Frequency (MHz) 1.5:1	POWER[1] INPUT (W)	CASE STYLE Note B	CONNECTION	PRICE $ Qty. (10-49)
* HFCN-6R3	DC-380	380-480	630	760-1960	20:1	760-1450	7	FV1206	nx	1.99
* HFCN-7	DC-420	420-530	700	900-1900	20:1	780-1700	7	FV1206	nx	1.99
* HFCN-12	DC-760	760-930	1180	1400-4200	20:1	1280-3000	7	FV1206	nx	1.99
* HFCN-15	DC-1140	1140-1280	1530	1760-4800	20:1	1620-3400	7	FV1206	nx	1.99

see suggested PCB layout (PL-123) for HFCN models

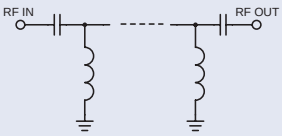
features

- low cost
- small size, 0.12"x0.6"x.04"
- 7 sections
- temperature stable
- dc block in/out, breakdown voltage, 1kV typ.

applications

- sub-harmonic rejection of VCO
- transmitters/receivers
- lab use

HFCN schematic



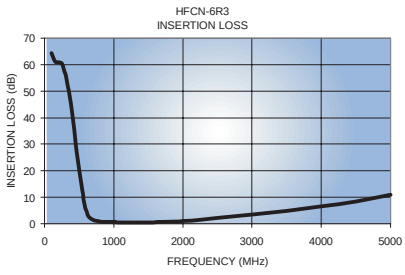
pin connections

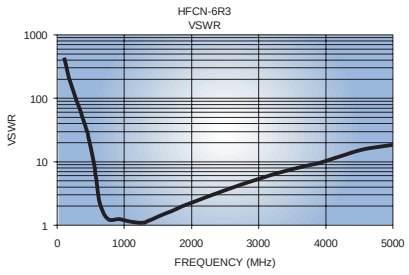
see case style outline drawings

PORT	nx
INPUT	1
OUTPUT	3
GND	2,4
DEMO BOARD	TB-237

Typical Performance Data at 25°C

Freq. (MHz)	Ins. Loss (dB)	VSWR (:1)
100.00	64.22	434.30
380.00	45.72	48.26
480.00	24.38	21.73
640.00	2.63	2.06
760.00	1.01	1.23
1080.00	0.55	1.13
2000.00	1.11	2.27
3000.00	3.48	5.34
4000.00	6.62	10.31
5000.00	10.88	18.50





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