

HT-HFCN-1300+

- Low cost
- Small size
- 7 sections
- Temperature stable
- LTCC construction
- Excellent power handling, 7W
- Hermetically sealed

- Sub-harmonic rejection
- Transmitters/receivers
- Lab use

RF IN	1
RF OUT	3
GROUND	2,4

[illegible]

Outline Dimensions $\varnothing$ inch
mm

50 Ω
1400MHz to 5000MHz

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Stop Band	Rejection Loss	690	40	—	dB
	930	20	—	—	
	Freq. Cut-Off	1300	3.0	—	dB
	VSWR	690-930	20	—	
Pass Band	Insertion Loss	1400-5000	2.0	—	dB
	1510-4000	—	—	1.3	dB
	VSWR	1400-4000	1.5	—	:1

The graph illustrates the insertion loss characteristics of the device across a wide frequency range. The y-axis represents Insertion Loss in decibels (dB), ranging from 0 to 120. The x-axis represents Frequency in Megahertz (MHz), ranging from 0 to 7000. A red curve shows the loss starting at ~90 dB at 0 MHz, dropping to ~65 dB at 250 MHz, ~50 dB at 500 MHz, and reaching a plateau of ~5 dB around 1500 MHz, which it maintains until 7000 MHz.

Frequency (MHz)	Insertion Loss (dB)
0	90
250	65
500	50
1000	10
1500	5
2000	5
3000	5
4000	5
5000	5
6000	6
7000	7

The graph shows the VSWR of a 100 ohm resistor across a frequency range from 0 to 7000 MHz. The y-axis represents VSWR on a logarithmic scale, and the x-axis represents frequency in MHz. The curve indicates that the resistor is well-matched at 1500 MHz but exhibits significant mismatch at both lower and higher frequencies.

Frequency (MHz)	VSWR
0	1000
500	100
1000	20
1500	1
2000	1.2
3000	1.3
4000	1.2
5000	2.5
6000	4.5
7000	8

2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

	DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
	DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Operating Temperature	-55°C to +100°C
Storage Temperature	-55°C to +100°C
RF Power Input*	7W max at 25°C

*Permanent damage may occur if any of these limits are exceeded