



Scale 1:1

## Features

- ▶ Industry standard HC49 case
- ▶ Fundamental mode available up to 40.0MHz
- ▶ Comprehensive stock of standard frequencies
- ▶ Low cost for volume applications
- ▶ Express manufacturing service
- ▶ Custom frequencies easily produced
- ▶ Tight specifications available
- ▶ Wide frequency range available
- ▶ Centre ground lead available

## Standard Frequencies

Frequencies in MHz			
1.000000	6.000000	11.00000	20.00000
1.843200	6.144000	11.05920	22.11840
2.000000	6.176000	11.28960	24.00000
2.457600	6.400000	12.00000	24.00014
3.000000	6.553600	12.28800	24.57600
3.276800	7.372800	14.00000	30.00000
3.579545	7.680000	14.31818	32.00000
3.686400	8.000000	14.74560	32.76800
4.000000	8.192000	15.00000	36.00000
4.032000	8.867237	15.36000	40.00000
4.096000	9.000000	16.00000	48.00000
4.194304	9.216000	16.38400	50.00000
4.433619	9.830400	16.93440	60.00000
4.915200	10.00000	17.73447	64.00000
5.000000	10.24000	18.00000	
5.068800	10.24500	18.43200	
5.120000	10.70000	19.66080	

## Specifications

Parameters	Product	Option Code
	HC49	
<b>Package:</b> Resistance weld	<input checked="" type="checkbox"/>	
<b>Frequency range:</b> 1.0 ~ 160MHz	<input checked="" type="checkbox"/>	
<b>Calibration tolerance:</b>		
±5ppm	<input type="checkbox"/>	L
±10ppm	<input type="checkbox"/>	1
±20ppm	<input type="checkbox"/>	2
±30ppm	<input checked="" type="checkbox"/>	3
±50ppm	<input type="checkbox"/>	5
Other values (±3ppm ~ ±100ppm)	<input type="checkbox"/>	specify
<b>Temperature stability:</b>		
±5ppm	<input type="checkbox"/>	L
±10ppm	<input type="checkbox"/>	1
±20ppm	<input type="checkbox"/>	2
±30ppm	<input type="checkbox"/>	3
±50ppm	<input checked="" type="checkbox"/>	5
±100ppm	<input type="checkbox"/>	C
Other values (±3ppm ~ ±100ppm)	<input type="checkbox"/>	specify
<b>Operating temperature range:</b>		
0 to +50°C	<input type="checkbox"/>	0
-10 to +60°C	<input checked="" type="checkbox"/>	1
-20 to +70°C	<input type="checkbox"/>	2
-30 to +80°C	<input type="checkbox"/>	3
-40 to +85°C	<input type="checkbox"/>	4
Other values	<input type="checkbox"/>	specify
<b>Circuit condition:</b>		
12pF	<input type="checkbox"/>	B
16pF	<input type="checkbox"/>	D
18pF	<input type="checkbox"/>	E
20pF	<input type="checkbox"/>	F
30pF	<input type="checkbox"/>	J
Series resonant	<input type="checkbox"/>	S
Other values	<input type="checkbox"/>	specify
<b>Oscillation mode:</b>		
Fundamental	<input type="checkbox"/>	F
3rd overtone	<input type="checkbox"/>	3
5th overtone	<input type="checkbox"/>	5
<b>Equivalent series resistance (max):</b>		
3000Ω (1.0MHz)	<input checked="" type="checkbox"/>	
700Ω (1.8 ~ 2.0MHz)	<input checked="" type="checkbox"/>	
500Ω (>2.0 ~ 2.4MHz)	<input checked="" type="checkbox"/>	
300Ω (>2.4 ~ 3.0MHz)	<input checked="" type="checkbox"/>	
200Ω (>3.0 ~ 3.2MHz)	<input checked="" type="checkbox"/>	
150Ω (>3.2 ~ 3.7MHz)	<input checked="" type="checkbox"/>	
100Ω (>3.7 ~ 4.2MHz)	<input checked="" type="checkbox"/>	
80Ω (>4.2 ~ 6.0MHz)	<input checked="" type="checkbox"/>	
50Ω (>6.0 ~ 9.0MHz)	<input checked="" type="checkbox"/>	
30Ω (>9.0 ~ 36.0MHz)	<input checked="" type="checkbox"/>	
60Ω (24.0 ~ 90.0MHz, 3rd OT)	<input checked="" type="checkbox"/>	
80Ω (80.0 ~ 160MHz, 5th OT)	<input checked="" type="checkbox"/>	
<b>Static capacitance (C<sub>0</sub>):</b> 7pF max	<input checked="" type="checkbox"/>	
<b>Ageing:</b> ±3ppm max first year	<input checked="" type="checkbox"/>	
<b>Test drive level:</b> 100µW	<input checked="" type="checkbox"/>	

■ Standard. □ Optional - Please specify required code(s) when ordering

## Ordering Information

Product name + option codes + frequency  
 eg: **HC49/351DF 16.1760MHz** 30/50/10/16-F  
**HC49/232S3 48.0MHz** 20/30/20/S-3

◆ Insulating washers and mounting clips available. See our website for details.