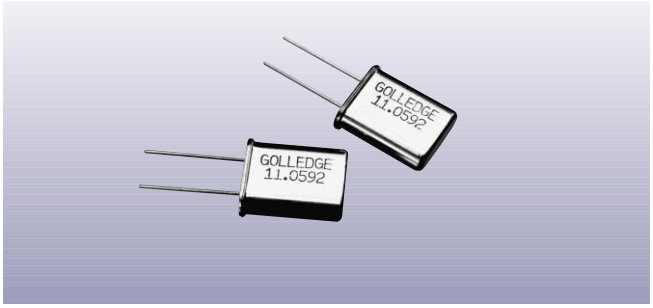
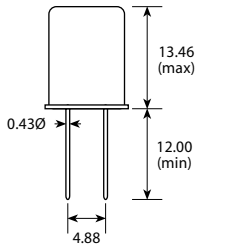
Standard Crystal

HC49





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**

Specifications

Parameters	Product HC49	Option Code
Package: Resistance weld	■	
Frequency range: 300kHz ~ 225MHz	■	
Calibration tolerance: ±30ppm	■	
±5ppm ~ ±100ppm	□	specify
Temperature stability: ±50ppm	■	
±5ppm ~ ±100ppm	□	specify
Operating temperature range:		
-10 to +60°C	■	
0 to +50°C ~ -55 to +125°C	□	specify
Circuit condition: 8 ~ 50pF or SR	□	specify
Equivalent series resistance (max):		
3,000Ω (300 ~ 800kHz)	■	
5,000Ω (800kHz ~ 1.30MHz)	■	
800Ω (1.80 ~ 2.0MHz)	■	
500Ω (>2.0 ~ 2.4MHz)	■	
300Ω (>2.4 ~ 3.0MHz)	■	
150Ω (>3.0 ~ 3.5MHz)	■	
120Ω (>3.5 ~ 4.0MHz)	■	
100Ω (>4.0 ~ 4.4MHz)	■	
80Ω (>4.4 ~ 6.0MHz)	■	
50Ω (>6.0 ~ 9.0MHz)	■	
30Ω (>9.0 ~ 36.0MHz)	■	
40Ω (25.0 ~ 90.0MHz, 3rd OT)	■	
70Ω (60.0 ~ 150MHz, 5th OT)	■	
100Ω (90.0 ~ 225MHz, 7th OT)	■	
Static capacitance (C_0): 7pF max	■	
Ageing: ±3ppm max first year	■	
Test drive level: 100µW	■	

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

Ordering Information

Product name + frequency + specification code
eg: **HC49 16.1760MHz 10/20/20/30-F**

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

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	

Tel: **+44 1460 256 100** Fax: **+44 1460 256 101** E-mail: **sales@golledge.com** Web: **www.golledge.com**

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