

Crystek Corporation

239-561-3311 FAX 239-561-1025

HC49S Low Profile Leaded Crystal

Build a custom part number

CYS X X X X X - Freq

Frequency Tolerance at 25°C	
1	±10 ppm
2	±15 ppm
3	±20 ppm
4	±25 ppm
5	±30 ppm
6	±50 ppm
7	±100 ppm

Frequency Stability over Temp Range					
A	±10 ppm	(0 to 70°C)	J	±30ppm	(-20 to 70°C)
B	±15 ppm	(0 to 70°C)	K	±50 ppm	(-20 to 70°C)
C	±20 ppm	(0 to 70°C)	L	±100 ppm	(-20 to 70°C)
D	±25 ppm	(0 to 70°C)	M	±20 ppm	(-40 to 85°C)
E	±30 ppm	(0 to 70°C)	N	±25 ppm	(-40 to 85°C)
F	±50 ppm	(0 to 70°C)	O	±30 ppm	(-40 to 85°C)
G	±100 ppm	(0 to 70°C)	P	±50 ppm	(-40 to 85°C)
H	±15 ppm	(-20 to 70°C)	Q	±100 ppm	(-40 to 85°C)
I	±20 ppm	(-20 to 70°C)			

Load Capacitance	
1	Series
2	14 pF
3	16 pF
4	18 pF
5	20 pF
6	22 pF
7	25 pF
8	32 pF

Options	
Can Height (Max)	
A	2.5mm
AS	2.5mm w/ spacer
B	4.0mm
BS	4.0mm w/ spacer
C	5.0mm
CS	5.0mm w/ spacer

Example:

CYS4F51CS-20.000 = ±25ppm at 25°C, ±50ppm 0 to 70°C, 20pF Load Cap, Fundamental, 5.0mm with Spacer, 20.000MHz

Mode	
1	Fundamental 1-32 MHz
3	3rd Overtone 27-86 MHz

Standard part numbers

Part number	Freq. (MHz)	CL	Max ESR	Part number	Freq. (MHz)	CL	Max ESR
CY3DMS	3.579545	18pF	150	CY14BPS	14.745600	20pF	70
CY3JS	3.686400	series	150	CY15AS	15.000	series	50
CY3JMS	3.686400	18pF	150	CY16BS	16.000	series	50
CY3JNS	3.686400	20pF	150	CY16BPS	16.000	20pF	50
CY3AS	4.000	series	150	CY19AS	18.000	series	50
CY3APS	4.000	20pF	150	CY19BS	18.432	series	50
CY4ES	4.194304	12pF	120	CY19BPS	18.432	20pF	50
CY4DS	4.915200	series	120	CY20AS	19.660800	series	50
CY7AS	5.000	series	100	CY20APS	19.660800	20pF	50
CY7APS	5.000	20pF	100	CY22AS	20.000	series	50
CY5BS	5.0688	series	100	CY22APS	20.000	20pF	50
CY6BS	6.000	series	90	CY24AS	24.000	series	50
CY6BPS	6.000	20pF	90	CY24APS	24.000	20pF	50
CY8GS	8.000	series	90	CY25AS	25.000	series	50
CY8GPS	8.000	20pF	90				
CY9BS	9.830400	series	90				
CY12AS	10.000	series	90				
CY11BS	11.059200	series	90				
CY11BPS	11.059200	20pF	90				
CY12BS	12.000	series	70				
CY12BPS	12.000	20pF	70				
CY14AS	14.318180	series	70				
CY14ACS	14.318180	18pF	70				
CY14APS	14.318180	20pF	70				
CY14BS	14.745600	series	70				

Resistance at series resonance	
Freq. (MHz)	Max ESR
3.5 - 4.0	150
4.1 - 4.9	120
5.0 - 5.9	100
6.0 - 11.9	90
12.0 - 14.9	70
15.0 - 30.0	50
30.1 - 86.0	100

Table 1

Standard specifications

Frequency Tolerance: ±50ppm at 25°C

Frequency Stability: ±100ppm 0°C to 70°C

Storage Temperature: -40°C to 85°C

Shunt Capacitance: 7.0 pF Max

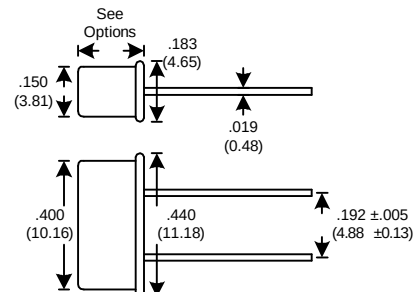
Drive Level: 100uW Typical

Sealing Method: Resistance Weld

ESR: see table 1

Options: Can Height, Spacer

Specifications subject to change without notice.



Dimensions inches (mm)

All dimensions are Max unless otherwise specified.

Spec.	k1
Rev.	F