

HC49S SMD Low Profile Surface Mount Crystal

Build a custom part number

CYSD 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	
A	3.0mm
B	4.0mm
C	5.0mm

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

Example:

CYSD4F51C-20.000 = ±25ppm at 25°C, ±50ppm 0 to 70°C, 20pF Load Cap, Fundamental, 5.0mm, 20.000MHz

Standard part numbers

Part number	Freq. (MHz)	CL	Max ESR	Part number	Freq. (MHz)	CL	Max ESR
CY3DMSMD	3.579545	18pF	150	CY15ASMD	15.000	series	50
CY3JSMD	3.686400	series	150	CY16BSMD	16.000	series	50
CY3JMSMD	3.686400	18pF	150	CY16PSMD	16.000	20pF	50
CY3JNSMD	3.686400	20pF	150	CY19ASMD	18.000	series	50
CY3ASMD	4.000	series	150	CY19BSMD	18.432	series	50
CY3APSM	4.000	20pF	150	CY19PSMD	18.432	20pF	50
CY4ESMD	4.194304	12pF	120	CY20ASMD	19.660800	series	50
CY4DSMD	4.915200	series	120	CY20PSMD	19.660800	20pF	50
CY7ASMD	5.000	series	100	CY22ASMD	20.000	series	50
CY7APSM	5.000	20pF	100	CY22PSMD	20.000	20pF	50
CY5BSMD	5.0688	series	100	CY24ASMD	24.000	series	50
CY6BSMD	6.000	series	90	CY24PSMD	24.000	20pF	50
CY6BPSMD	6.000	20pF	90	CY25ASMD	25.000	series	50
CY8GSMD	8.000	series	90				
CY8GPSMD	8.000	20pF	90				
CY9BSMD	9.830400	series	90				
CY12ASMD	10.000	series	90				
CY11BSMD	11.059200	series	90				
CY11PSMD	11.059200	20pF	90				
CY12BSMD	12.000	series	70				
CY12PSMD	12.000	20pF	70				
CY14ASMD	14.318180	series	70				
CY14CSMD	14.318180	18pF	70				
CY14PSMD	14.318180	20pF	70				
CY14BSMD	14.745600	series	70				

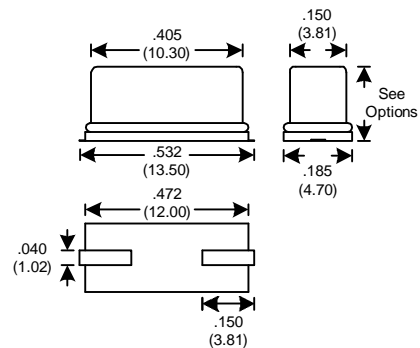
Resistance at series resonance	
Freq. (MHz)	Max ESR
3.5 - 4.0	150
4.1 - 4.9	120
5.0 - 5.9	100
6.0 - 11.9	90
12.0 - 14.9	70
15.0 - 30.0	50
30.1 - 86.0	100

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

Specifications subject to change without notice.



Dimensions inches (mm)
 All dimensions are Max unless otherwise specified.

Spec.	k2
Rev.	G