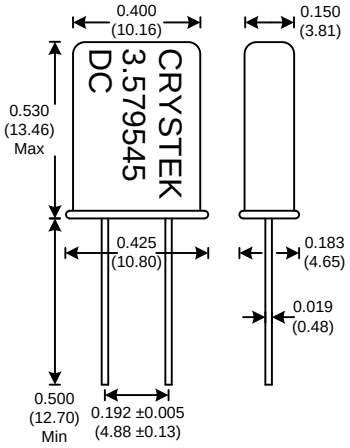
CRYSTEK CRYSTALS
A Division of Crystek Corporation

CYxx Model
Leaded HC49 Crystal



Dimensions inches (mm)
All dimensions are maximum unless otherwise specified

Resistance at series resonance	
Freq. (MHz)	**Max ESR**
1.8432 - 1.999	700
2.0 - 2.09	500
2.1 - 2.5	320
2.501 - 4.0	175
4.1 - 4.9	100
5.0 - 5.9	50
6.0 - 11.9	40
12.0 - 22.9	30
30.0 - 50.0	40
50.1 - 100.0	90
100.1 - 150.0	120

Table 1

RoHS Compliant

Part number	Freq. (MHz)		CL	Max ESR
CY2BM	2.457600		32pF	320
CY3DM	3.579545		18pF	175
CY3J	3.686400		series	175
CY3JM	3.686400		18pF	175
CY3JN	3.686400		20pF	175
CY3A	4.000		series	100
CY3AP	4.000		20pF	100
CY4F	4.096		20pF	100
CY4E	4.194304		12pF	75
CY4D	4.915200		series	75
CY7A	5.000		series	50
CY7AP	5.000		20pF	50
CY5B	5.068800		series	50
CY6B	6.000		series	40
CY6BP	6.000		20pF	40
CY6C	6.144		30pF	40
CY6CP	6.144		20pF	40
CY6G	6.400		20pF	40
CY7B	7.372800		series	30
CY7BP	7.372800		20pF	30
CY8G	8.000		series	30
CY8GP	8.000		20pF	30
CY8J	8.192		series	30
CY8JP	8.192		20pF	30
CY9B	9.830400		series	30
CY12A	10.000		series	30
CY11B	11.059200		series	30
CY11BP	11.059200		20pF	30
CY12B	12.000		series	30
CY12BP	12.000		20pF	30
CY14A	14.318180		series	30
CY14AC	14.318180		18pF	30
CY14AP	14.318180		20pF	30
CY14B	14.745600		series	30
CY14BP	14.745600		20pF	30
CY15A	15.000		series	30
CY16B	16.000		series	30
CY16BP	16.000		20pF	30
CY19A	18.000		series	30
CY19B	18.432		series	30
CY19BP	18.432		20pF	30
CY20A	19.660800		series	30
CY20AP	19.660800		20pF	30
CY22A	20.000		series	30
CY22AP	20.000		20pF	30
CY22B	22.118400		series	30
CY22BP	22.118400		20pF	30
CY24A	24.000		series	40
CY24AP	24.000		20pF	40
CY25A	25.000		series	40
CY27A	27.000	3rd	series	40
CY30B	32.000	3rd	series	40
CY36A	36.000	3rd	series	40
CY48A	48.000	3rd	series	40
CY100A	100.000	3rd	series	90

Frequency Range:	1.843200 MHz to 40 MHz (fund)
	40 MHz to 100 MHz (3rd O/T)
	100 MHz to 150 MHz (5th O/T)
Calibration Tolerance:	±50ppm (Standard p/n)
(Option)	±10ppm to ±100ppm
Frequency Stability:	±100ppm (Standard p/n)
(Option)	±15ppm to ±100ppm

Optional spacer available

Operating Temp. range:	0 to 70°C (Standard p/n)
(Option)	-20 to 70°C
(Option)	-40°C to 85°C
Storage Temp. range:	-45°C to 90°C
Shunt Capacitance:	7.0pF Max
Drive level:	100uW Typical
ESR:	See table 1
Aging:	<3ppm 1st year Max
Insulation Resistance:	500 Megaohms Min at 100Vdc

Build Your Own P/N

CY 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

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

S	Spacer

Mode

1	Fundamental 1.8432-40 MHz
3	3rd Overtone 40-100 MHz
5	5th Overtone 100-150 MHz

Example:

CY4F51S-20.000 = ±25ppm at 25°C, ±50ppm 0 to 70°C, 20pF Load Cap, Fundamental, with Spacer, 20.000 MHz

Specifications subject to change without notice.

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