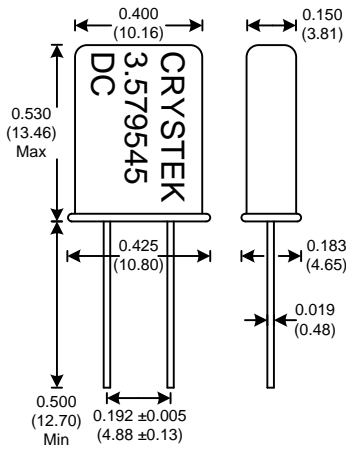




CYxx Model
Leaded HC49 Crystal



| 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



| 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 | 3 rd | series 40 |
| CY30B | 32.000 | 3 rd | series 40 |
| CY36A | 36.000 | 3 rd | series 40 |
| CY48A | 48.000 | 3 rd | series 40 |
| CY100A | 100.000 | 3 rd | 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

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

Optional spacer available

Build Your Own P/N

CY X X X X X - Freq

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|-----------------------|-----------------------------|---------------------------------------|--|-----------------------|--------------------------|-----------------------|-------------------------|-----------------------|-------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|---|----------|---------|---------|---------|---------|---------|---------|---------|---------------------------------------|
| <p>Frequency Tolerance at 25°C</p> <p>1 ±10 ppm 2 ±15 ppm 3 ±20 ppm 4 ±25 ppm 5 ±30 ppm 6 ±50 ppm 7 ±100 ppm</p> | <p>Frequency Stability over Temp Range</p> <table border="1"> <tr><td>B ±15 ppm (0 to 70°C)</td><td>J ±30ppm (-20 to 70°C)</td></tr> <tr><td>C ±20 ppm (0 to 70°C)</td><td>K ±50 ppm (-20 to 70°C)</td></tr> <tr><td>D ±25 ppm (0 to 70°C)</td><td>L ±100 ppm (-20 to 70°C)</td></tr> <tr><td>E ±30 ppm (0 to 70°C)</td><td>M ±20 ppm (-40 to 85°C)</td></tr> <tr><td>F ±50 ppm (0 to 70°C)</td><td>N ±25 ppm (-40 to 85°C)</td></tr> <tr><td>G ±100 ppm (0 to 70°C)</td><td>O ±30 ppm (-40 to 85°C)</td></tr> <tr><td>H ±15 ppm (-20 to 70°C)</td><td>P ±50 ppm (-40 to 85°C)</td></tr> <tr><td>I ±20 ppm (-20 to 70°C)</td><td>Q ±100 ppm (-40 to 85°C)</td></tr> </table> | 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) | <p>Load Capacitance</p> <table border="1"> <tr><td>1 Series</td></tr> <tr><td>2 14 pF</td></tr> <tr><td>3 16 pF</td></tr> <tr><td>4 18 pF</td></tr> <tr><td>5 20 pF</td></tr> <tr><td>6 22 pF</td></tr> <tr><td>7 25 pF</td></tr> <tr><td>8 32 pF</td></tr> </table> | 1 Series | 2 14 pF | 3 16 pF | 4 18 pF | 5 20 pF | 6 22 pF | 7 25 pF | 8 32 pF | <p>Options</p> <p>S Spacer</p> |
| 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) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Series | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 14 pF | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 16 pF | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 18 pF | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 20 pF | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 22 pF | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 25 pF | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 32 pF | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Mode</p> <table border="1"> <tr><td>1 Fundamental 1.8432-40 MHz</td></tr> <tr><td>3 3rd Overtone 40-100 MHz</td></tr> <tr><td>5 5th Overtone 100-150 MHz</td></tr> </table> | | | 1 Fundamental 1.8432-40 MHz | 3 3 rd Overtone 40-100 MHz | 5 5 th Overtone 100-150 MHz | | | | | | | | | | | | | | | | | | | | | | |
| 1 Fundamental 1.8432-40 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 3 rd Overtone 40-100 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 5 th 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.

TD-021008 Rev. L



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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