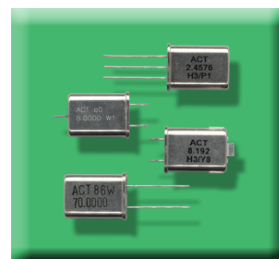


Compatible with Eu Directive
 2002/EC - RoHS

ACT HC49/U (Custom Packages)

The ACT HC49U family is available in industry standard package and specifications. This series offers a broad range of frequencies and tolerances in both standard and industrial temperature ranges. Housed in resistance welded cases the HC49U now has improved aging characteristics.

Various options - Gull Wing, Third Leg, Insulating Washers etc - are available on request



Specification

| Parameter | Symbol | Specification | Condition |
|------------------------------|---------------|--|-----------------------------------|
| Frequency Range | fo | 1.00MHz ~ 200MHZ Fundamental & 3rd to 7th O/T | Please specify |
| Frequency Tolerance @25°C | $\Delta f/fo$ | ±5ppm ~ 100ppm (30ppm Std) | Please specify |
| Temp Operating Range | Topr | -10 ~ +60°C Std | Others available - Please specify |
| Stability over Temp Range °C | $\Delta f/Fo$ | ±5ppm ~ 100ppm (50 ppm Std) | ±5ppm ~ 100ppm |
| Temp Storage Range | Tstg | -40°C to +85°C | |
| Equivalent Series Resistance | ESR | See table below | Dependent on cut & frequency |
| Shunt Capacitance | CO | 7pF max | |
| Load Capacitance | CL | 8 ~ 55pF or SR | Please specify |
| Drive Level | DL max | 50µ W typ | Others available - Please specify |
| Insulation Resistance | IR | 500MΩ Min @ DC 100V ±15V | @ DC 100V ±15V |
| Aging | Fa | ±5ppm / year max@25°C | Others available - Please specify |

| Frequency (MHz) | ESR (Ω) max | Mode | Frequency (MHz) | ESR (Ω) | Mode |
|-----------------|-------------|---------|-----------------|---------|---------|
| 1.000 | 3000 | SL Fund | 12.000 ~ 13.999 | 40 | AT Fund |
| 1.8432 ~ 1.999 | 650 | AT Fund | 14.000 ~ 16.999 | 30 | AT Fund |
| 2.000 ~ 2.999 | 550 | AT Fund | 17.000 ~ 24.999 | 30 | AT Fund |
| 3.000 ~ 3.199 | 300 | AT Fund | 25.000 ~ 35.999 | 30 | AT Fund |
| 3.200 ~ 3.499 | 300 | AT Fund | 36.000 ~ 45.000 | 25 | AT Fund |
| 3.500 ~ 4.999 | 120 | AT Fund | 20.000 ~ 45.000 | 40 | BT Fund |
| 5.000 ~ 5.999 | 70 | AT Fund | 20.000 ~ 59.999 | 60 | 3rd OT |
| 6.000 ~ 7.999 | 60 | AT Fund | 60.000 ~ 100.00 | 80 | 3rd OT |
| 8.000 ~ 9.999 | 50 | AT Fund | 60.000 ~ 150.00 | 120 | 5th OT |
| 10.00 ~ 11.999 | 40 | AT Fund | 120.00 ~ 200.00 | 150 | 7th OT |

Please note that all parameters can not necessarily be specified in the same device

Customer to specify : Frequency, Frequency Tolerance, Temperature Stability, Operating Temperature Range, Load Capacitance & Mode

In line with our ongoing policy of product evolution and improvement, the above specification may be subject to change without notice

ISO9001:2000 Registered

For quotations or further information please contact us at:

3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2EY, UK

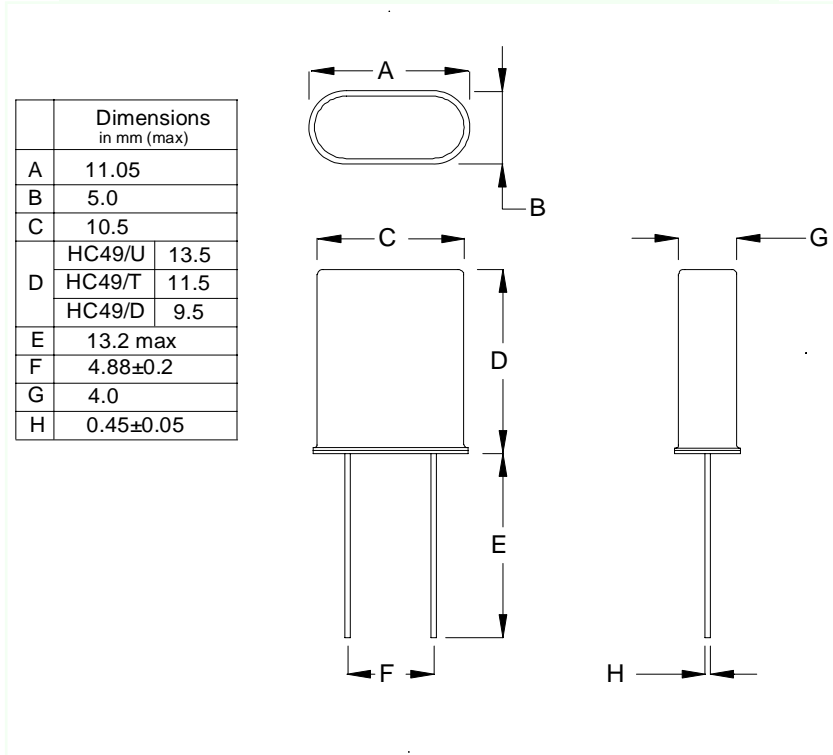
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Issue: 6 C1H3

Date: 6/02/05

ACT HC49/U (Custom Packages)

| Standard Frequencies (MHz) | | | | | |
|----------------------------|----------|---------|----------|----------|--------|
| 1.000 | 4.096 | 7.000 | 11.0592 | 18.432 | 40.000 |
| 1.8432 | 4.194304 | 7.15909 | 11.2896 | 19.6608 | 48.000 |
| 2.000 | 4.433619 | 7.3728 | 12.000 | 20.000 | 50.000 |
| 2.097425 | 4.9152 | 7.3728 | 12.288 | 22.1184 | 56.448 |
| 2.4576 | 5.000 | 7.680 | 13.000 | 24.00014 | 60.000 |
| 2.8224 | 5.0688 | 8.000 | 13.875 | 24.576 | 64.000 |
| 3.000 | 5.120 | 8.192 | 14.000 | 25.000 | |
| 3.2768 | 5.185 | 8.67237 | 14.31818 | 27.000 | |
| 3.579545 | 5.7143 | 9.000 | 14.7456 | 28.224 | |
| 3.600 | 6.000 | 9.216 | 15.000 | 28.63636 | |
| 3.6864 | 6.144 | 9.8304 | 16.000 | 29.4912 | |
| 3.93216 | 6.176 | 10.000 | 16.384 | 30.000 | |
| 4.000 | 6.400 | 10.245 | 16.9344 | 32.000 | |
| 4.032 | 6.5536 | 10.752 | 17.73447 | 32.768 | |
| 4.096 | 6.5539 | 11.000 | 18.000 | 36.000 | |



PACKAGE OPTIONS AVAILABLE

- Gull Wing.
- Gullwing with clip.
- With insulating washer.
- Cropped leads.
- With centre ground lead.
- With ground lead to top of can.

Please note that all parameters can not necessarily be specified in the same device

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ISO9001:2000 Registered - Registration number 6830/2

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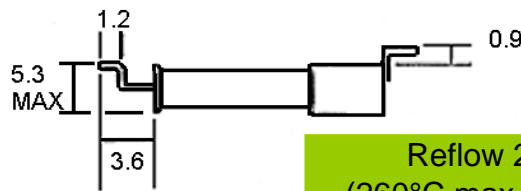
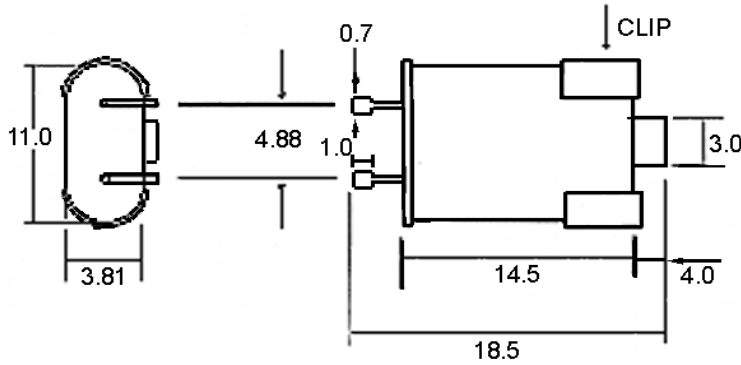
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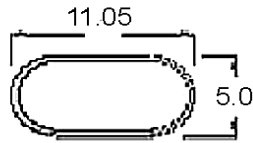
Date: 15/02/05

**ACT HC49/U (Custom Packages)
GULLWING VERSION DIMENSIONS (mm)**



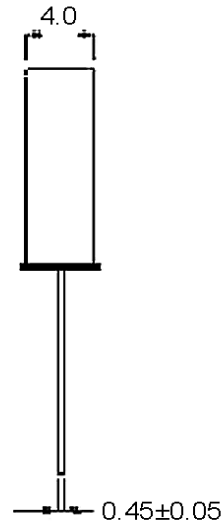
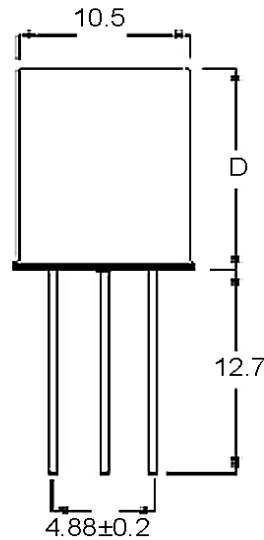
Reflow 240+/-5°C max.
(260°C max contact sales desk)

THREE LEAD VERSION DIMENSIONS (mm)



Centre Lead: Ground

| | | |
|---|---------|------|
| H | HC49U/U | 13.5 |
| | HC49U/T | 11.5 |
| | HC49U/D | 9.5 |



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