

Tel: 0044 (0)118 979 1238 Fax: 0044 (0)118 979 1283 E-mail: info@actcrystals.com

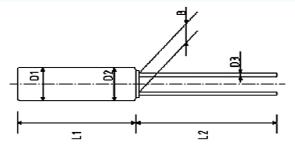


The ACT39 is a compact crystal resonator offering high vibration and shock resistance together with high stability. It is most suitable for portable equipment and close packing density. The device is offered with frequencies between 4.0 and 70.0MHz.

Specification

ACT39 / 38A

Parameter	Symbol	Specification	Condition	
Frequency	fo	4.0-14MHz	case size 3x9mm (39)	
		14-49.5MHZ	case size 3x8mm (38A)	
		49.5-70MHz	case size 3x9mm (39)	
Frequency Tolerance @25°C	∆f/fo	±30~50ppm	4.0-10MHz	
		±10~50ppm (typ±30)	10-49.5MHZ	
		±30~50ppm	49.5-70MHz	
Frequency Stability	∆f/fo	±30~50ppm	4.0-10MHz	
		±10~50ppm (typ±30)	10-49.5MHZ	
		±30~50ppm	49.5-70MHz	
Temp Operating Range	Topr	-20 ~ +70°C	4.0-10MHz	
		-10~+70°C	10~49.5MHz	
		-20 ~ +70°C	49.5~70MHz	
Temp Storage Range	Tstg	-40 ~ +85°C		
Equivalent Series Resistance	ESR - - -	150Ω max	4.0~6.0MHz	
		100Ω max	6.0~10.0MHz	
		60Ω max	10.0~14.0MHz	
		40Ω max	16.0~20.0MHz	
		30Ω max	20.0~30.0MHz	
		100Ω max	30.0~49.5MHz(3rd O/T)	
		80Ω max	49.5~70MHz(3rd O/T)	
Shunt Capacitance	CO	5.0pF typical		
Load Capacitance	CL	16.0pF (Others available.)	Please specify	
Drive Level	DL	50~100 μ W		
Insulation Resistance	IR	500MΩ Min	DC100V±15V	
Aging	Fa	±5ppm max	@ 25°C ±3°C 1 st year	



	LI	L2	D1	D2	03	B
ACT38A	8.0	9.6	ø2.95	\$3.0	ø0.3	0.8
ACT39	8.61	9.6	ø2.95	\$3.0	\$0.3	0.8

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

Customer to Specify : Frequency, Frequency Tolerance, Operating Temperature Range & Load Capacitance

In line with our ongoing policy of product evolvement 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, Berks, RG41 2EY, UK

Issue : 3 C1 (M4) Date : 07/09/04

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SOLDERING of CYLINDER CRYSTALS

Lead wire should be soldered within 5 seconds with the iron having a tip temperature of less than 270°C. Case temperature should not exceed 150°C

With regard to wave soldering it is recommended that the process is carried out with the crystal unit set upright on the circuit board. Should the process be carried out with the crystal unit on its side then steps must be taken to prevent heat transfer through the can.

Should the whole crystal unit be heated (in a re-flow oven for example) it will result in amarked deterioration of the performance or even failure to oscillate. This is due to the internal construction of the crystal unit which involves the use of solder.

www.DataSheet4U.com

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