

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

### ACT630SMX-4

The ACT630SMX-4 family is a low cost,4 pad, high quality, low aging 6x3.5mm SMD Crystal ir a ceramic base / metal lid package, seam welded for good long term reliability. The device has the lid grounded via the package to reduce EMI issues. The wide frequency range and specification options ensure suitability for many applications.

<u>APPLICATIONS:</u> Wireless, Audio-visual, ATM, Cordless Phones, Pagers, Micro clock, Notebook, Instrumentation, Office automation, Audio-visual, Process Control, Consumer & Communications.

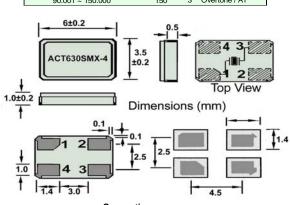


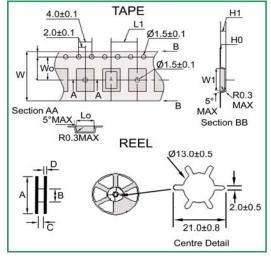
## Specification

opoomounon.			-		
Parameter	Symbol	Specification	Condition		
Frequency Range	fo	10.0 ~ 150.0MHz ( Standard Range)	Please specify		
Frequency Tolerance (@25°C)	Δf/fo	±5,±10,±15,±20,±30 & ±50ppm(Std )	Please specify		
Stability over temp range	Tc	±5ppm ~ 50ppm (See table 2)	Please specify		
Temp Operating Range	Topr	0~+50°C ~ -40~+85°C ( See table 2)	Please specify		
Temp Storage Range	Tstg	-40 ~+85°C			
Equivalent Series Resistance	ESR	See table 1			
Load Capacitance	CL	10pF ~ 50pF & Series	(16,20 & 30pF Std ) Please specify		
Shunt Capacitance	C0	5pF max			
Drive Level	DL	0.01 ~ 100 μW	(Custom to 200µW available - Enquire)		
Drive Level Dependency	DLD —	ESR min to max <1.3	0.01, 0.1,1,10,50,100μW steps		
' '	DLD —	FL min to max <1.3			
Insulation Resistance	IR	$500$ Μ $\Omega$ min	@100V DC		
Aging	Fa	±3ppm p/year	(First year max @ 25°C)		









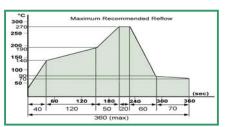
# Connections

- #1. Crystal
- #2. Grounded to lid
- #3. Crystal

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#4.	Grounded	to	lic

	TAPE						REEL				
(mm)	8	Wo	W1	Lo	L1	Но	H1	Α	В	С	D
Tolerance	±0.3	±0.05	±0.1	±0.1	±0.1	±0.05	±0.1	±1	±1	±0.5	±0.2
Dimension	12.0	5.5	6.5	4.0	8.0	0.3	1.4	178	80	13.5	2.0

+/- 5ppm	+/- 10ppm	+/- 20ppm	+/- 30ppm	+/- 50ppm	
+	+	+	+	+	+
+	+	+	+	+	Available stabilities
	+	+	+	+	
	+	+	+	+	+
	+	+	+	+	Standard stabilities
	+/- 5ppm + +	+/- 5ppm +/- 10ppm + + + + + + + + + + +	+/- 5ppm	+/- 5ppm	+/- 5ppm



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

Customer to specify: Frequency, Frequency Tolerance, Temperature Stability, Operating Temperature & Load Capacitance In line with our ongoing policy of product evolvement and improvement, the above specification may subject to change without notice ISO9001 Registered

For quotations or further information please contact us at:

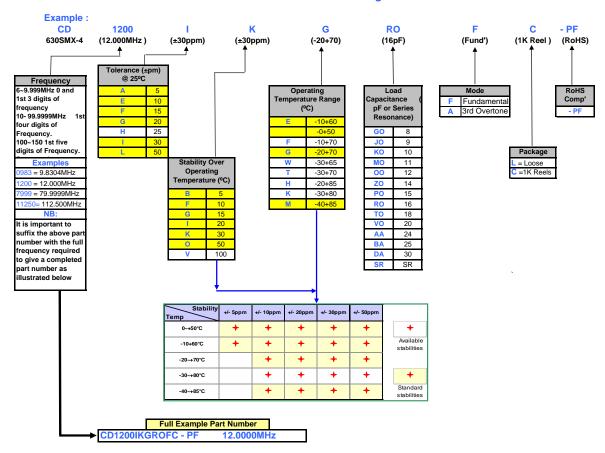
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# SERIES: ACT630SMX-4 Part numbering code is CD



#### **NOTES:**

- 1) Tighter Tolerances and Stabilities and other Operating Temperature Ranges may be available.
- 2) ACT are always happy to consider truly custom specification parts which may require non-standard specification parameters, specific testing, customer requested AQL requirements, non standard packaging or taping and reeling and custom marking. Such devices would normally be allocated a custom specification part number which is wholly customer specific.

( EG : A 12.00MHz custom ACT630SMX-4 device may have a part number such as CD1200C- C1122-PF)

- 3) A guide to availability of tighter stabilities appears on page one of this data sheet in Table 2
- 4) Frequencies below 10.000MHz are prefixed with a "0" (eg: 0900 = 9MHz.Whereas 10.000MHz is 1000 )