

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

ACT750SMX-4

The ACT750SMX-4 family is a low cost, 4 pad, high quality, low aging 7x5mm SMD Crystal in a ceramic base / metal lid package, seam sealed 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/WLAN, ATM, Cordless phones, Pagers, PC & Notebook, Instrumentation, Audio visual, Micro clock, Process control, Consumer & Communications.

Compatible with Eu Directive 2002/EC - RoHS

Specification

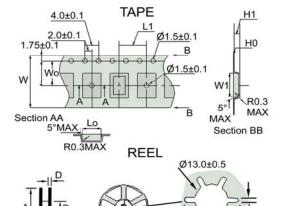
Parameter	Symbol	Specification	Condition	
Frequency Range	fo	6.0 ~ 80.0MHz	Please specify	
Frequency Tolerance (@25°C)	∆f/fo	±5,±10,±15,±20,±30 & ±50ppm(Std)	Please specify	
Stability over temp range	Tc	±5ppm ~ 50ppm (See table 2)	Please specify	
Temp Operating Range	Topr	0~+50°C ~ -40~+85°C (See table 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	100μW typical (300μW max)	(Custom available - Please enquire)	
Drive Level Dependency	DLD —	ESR min to max <1.3	0.01, 0.1,1,10,50,100 μW steps	
Drive Level Dependency	DLD	FL min to max <1.3		
Insulation Resistance	IR	500 M Ω min	@100V DC	
Aging	Fa	±3ppm p/year	(First year max @ 25°C)	

Table 1

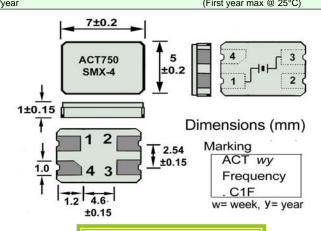
Freq. Range (MHz)	ESR (Ω) ma	ax Mode / Cut
6.000 ~ 9.999	100	Fundamental / AT
10.000 ~ 11.999	60	Fundamental / AT
12.000 ~ 14.999	50	Fundamental / AT
15.000 ~ 49.090	40	Fundamental / AT
45.000 ~ 80.000	90	3 RD Overtone / AT

Table 2

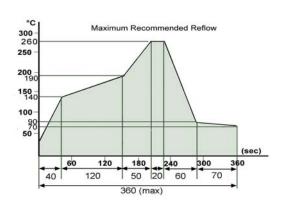
Stability	±5ppm	±10ppm	±20ppm	±30ppm	±50ppm	
Temp	торрии	±10ppiii	±zoppiii	тооррии		
0~50°C	✓	✓	✓	✓	✓	
-10~+60°C	✓	✓	✓	✓	✓	
-20~+70°C		✓	✓	✓	✓	
-30~+80°C		STD	STD	STD	STD	
-40~+85°C		✓	✓	✓	✓	



	TAPE						REEL				
	W	Wo	W1	Lo	L1	Но	H1	Α	В	С	D
Tolerance	±0.3	0.1	±0.1	±0.1	±0.1	±0.05	±0.1	±1	±1	±1	±0.2
Dimension	16.0	7.5	7.4	5.4	8.0	0.3	1.4	178	80	17.5	2.0







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

0±0.5

21.0±0.8

Centre Detail

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:

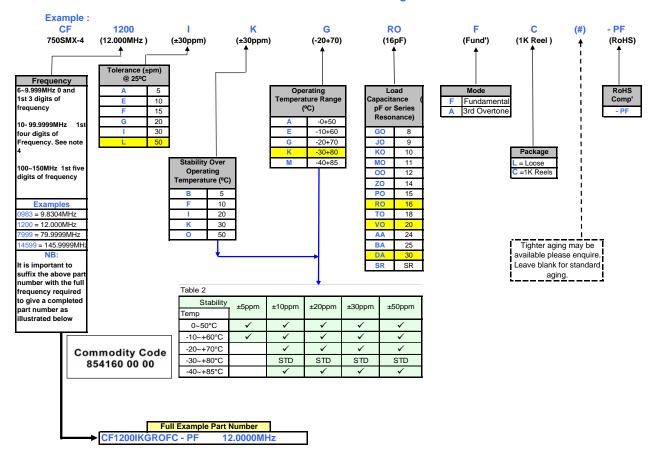
3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2EY, UK

http://www.actcrystals.com



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SERIES: ACT750SMX-4 Part numbering code is CF



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 ACT750SMX-4 device may have a part number such as CF1200C- 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)