

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

ACT534SMX-2

The **ACT534SMX-2 family** is a low cost, 2 pad, high quality, low aging 5x3.2mm SMD Crystal in a ceramic base / ceramic lid package, glass sealed for good reliability. The wide frequency range and specification options ensure suitability for many applications.

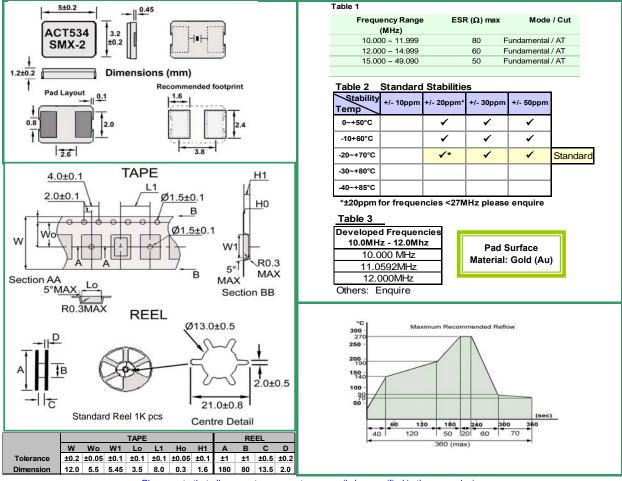
<u>APPLICATIONS:</u> Instrumentation, Notebook, Security, Games, Audio-visual, Office automation, Micro Clock, Process Control & Consumer.

Specification



Specification				
Parameter	Symbol	Specification	Condition	
Frequency Range	fo —	10.0 ~ 12 MHz Refer to table 3: Developed frequencies Please specify		
		12.001~49.09MHz Fundamental	i lease specify	
Frequency Tolerance (@25°C)	∆f/fo	±20*,±30 & ±50ppm(Std)	Please specify	
Stability over temp range	Tc	±20ppm ~ 50ppm (See table 2)	Please specify	
Temp Operating Range	Topr	0~+50°C ~ -20~+70°C(std) (See table 2)	Please specify	
Temp Storage Range	Tstg	-40 ~+85°C		
Equivalent Series Resistance	ESR	See table 1		
Load Capacitance	CL	16pF ~ 50pF & Series (16, 20 a	& 30pF Standard please specify)	
Shunt Capacitance	C0	5pF max		
Drive Level	DL	100μW typical 500μW max		
Drive Level Dependency -	DLD2	<12MHz 15max/ 12-20MHz 12 max />20MHz 10 max		
	FDLD	FL min to max <1.3		
Insulation Resistance	IR	500M $Ω$ min	@100V DC	
Aging	Fa	±5ppm p/year∗	(First year max @ 25°C)	

* A ±3ppm aging p/year part is available as a "semi-custom" device - Please enquire.



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

ISO9001:2000 Registered

For quotations or further information please contact us at:

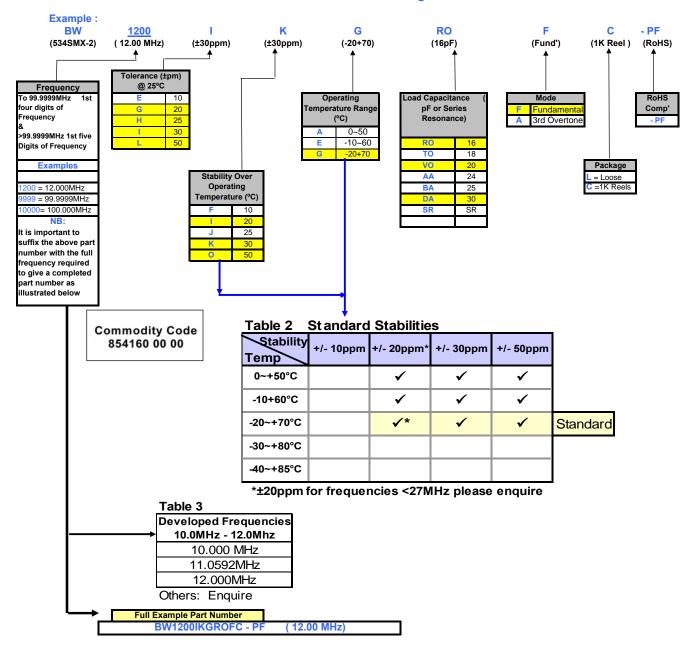
3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2EY, UK

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SERIES: ACT534MX-2 Part numbering code is BW



NOTES:

- 1) Tighter Tolerances and Stabilities and other Operating Temperature Ranges may be available. As each of these specification parameters impact on each other, it is not always possible to combine all options in one device. Therefore, if a specification not catered for above is required, please contact us directly for the relevant part number code(s).
- 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 ACT534SMX-2 device may have a part number such as BW1200C- C1500-PF)
- 3) A guide to availability of tighter stabilities appears in the tables above.