

ACT752SMX-2

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

The ACT752SMX-2 family is a low cost, 2 pad, high quality, low aging 7x5mm SMD Crystal in a ceramic base / metal lid package, seam sealed for good long term reliability. The wide

in a ceramic base / metal lid package, seam sealed for good long term reliability. The wide frequency range and specification options ensure suitability for many applications. **APPLICATIONS:** Wireless/WLAN, ATM, Cordless phones, Pagers, PC & Notebook,

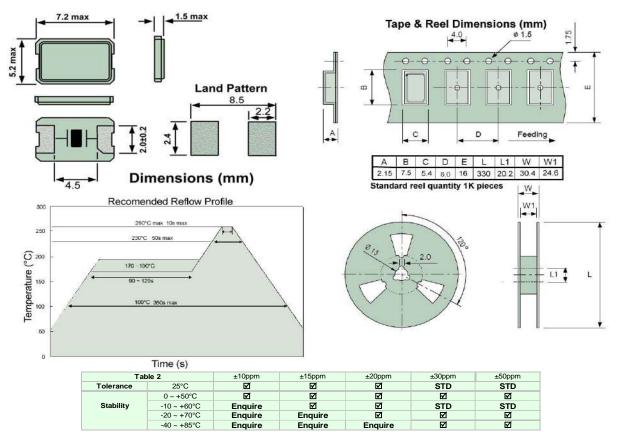


## **Specification**

Parameter	Symbol	Specification	Condition
Frequency Range	fo	6.0 ~ 100.0MHz	Please specify
Frequency Tolerance (@25°C)	∆f/fo	±30 & ±50ppm Standard	Or specify
Stability over temp range	Tc	±50ppm -10~+60°C Standard	Or specify
Temp Operating Range	Topr	0~+50°C ~ -40~+85°C	Please specify
Temp Storage Range	Tstg	-55 ~+125°C	
Equivalent Series Resistance	ESR	See table 1	
Load Capacitance	CL	8pF, 10pF, 16pF, 20pF & Series	Or specify
Shunt Capacitance	C0	5pF max	
Drive Level	DL	10~100μW 50μW standard	(Custom available - Please enquire)
Drive Level Dependency	DLD	FDLD <10ppm ESR max / ESR min <1.3	0.1, 1,5,10,50,100μW steps
Insulation Resistance	IR	500M $Ω$ min	@100V DC
Aging	Fa	±5ppm p/year	(First year max @ 25°C)

Table 1	Freq. Range (MHz)	ESR (Ω) max	Mode / Cut
	6.000 ~7.999	150	Fundamental / AT
	8.000 ~ 8.999	100	Fundamental / AT
	9.000 ~ 11.000	50	Fundamental / AT
	11.000 ~ 40.000	40	Fundamental / AT
	26 ~ 100MHz	100	3 <sup>RD</sup> Overtone / AT

Pad Surface Material: Gold (Au)



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

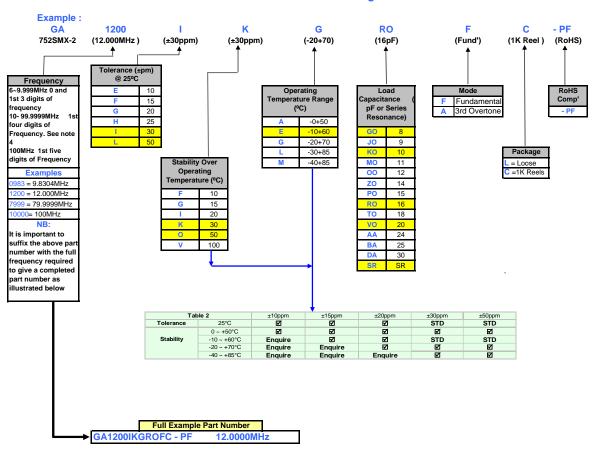
Customer to specify: Frequency, Frequency Tolerance, Temperature Stability, Operating Temperature & Load Capacitance

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: ACT752SMX-2 Part numbering code is GA



## **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 ACT752SMX-2 device may have a part number such as GA1200C- 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 )