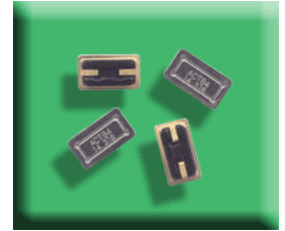


ACT84SMX-2

The ACT84SMX-2 is a slim Surface Mount crystal with a 1.8mm package height. The glass ceramic package makes it ideal for automatic handling.

Applications include Hand Held Terminals, Scanners and with it's wide range of frequencies, stabilities and operating temperatures it is still small enough to fit most applications including many portable units.



Parameter	Symbol	Specification	Condition
Frequency Range	fo	8.00 ~ 48.00 MHz	AT- cut Fundamental
		40.00 ~ 70.00 MHz	AT- cut 3rd Overtone
Frequency Tolerance	$\Delta f/fo$	$\pm 15\text{ppm}, \pm 30\text{ppm}, \pm 50\text{ppm}$ @25°C	Others avail. Please specify
Frequency Stability	$\Delta f/fo$	$\pm 15\text{ppm}, \pm 30\text{ppm}, \pm 50\text{ppm}$ (over -10 ~ +70°C)	Others avail. Please specify
Temp Operating Range	Topr	-10 ~ +60°C	
Temp Storage Range	Tstg	-40 ~ +85°C	
Equivalent Series Resistance	ESR	See table	
Shunt Capacitance	C0	7pF	Maximum
Load Capacitance	C _L	8 ~ 32pF & Series	Please specify
Drive Level	DL	See Table	
Aging	$\Delta f/fo$	Less than $\pm 3\text{ppm}$ / year	@ 25°C
Reflow Profile	Tsol	10 seconds maximum @ 260°C	
Humidity	RH	85%RH, 85°C, 48 hours	
Reflow Soldering		10 Sec max @ +260°C	

ESR Values

Frequency	Osc.Mode	ESR Ω max
8.0 ~ 10.0	AT Fund.	80
10.01 ~ 12.0	AT Fund.	60
12.01 ~ 48.0	AT Fund.	50
40.0 ~ 70.0	3RD O/T	80

Drive Level

Frequency	Osc.Mode	mW max
8.0 ~ 16.0	AT Fund.	0.5
16.01 ~ 24.0	AT Fund.	0.3
24.01 ~ 48.0	AT Fund.	0.1
40.0 ~ 70.0	3RD O/T	0.3

