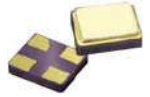# 5032H SMX-4 (RF Clock Series)
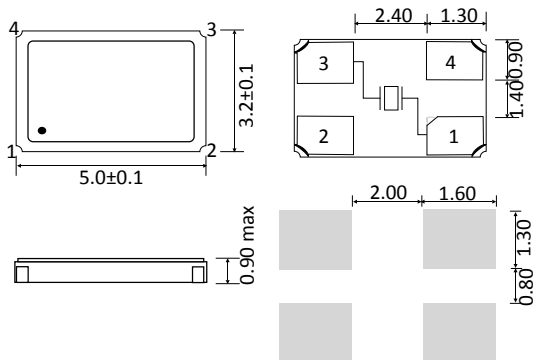
5.0 x 3.2mm Crystal unit

RoHS & REACH compliant
Small outline SMD crystal
Highly reliable seam seal 4 pad ceramic package
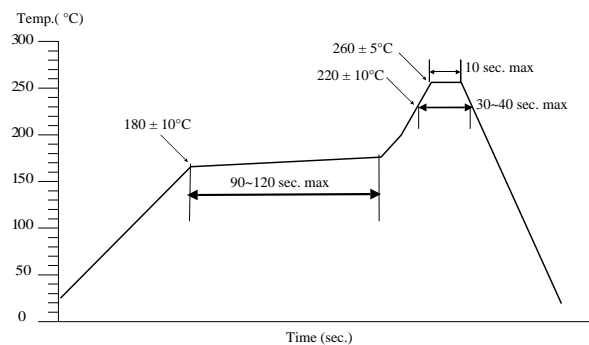Low aging crystal, specifically designed for RF application

Parameters		Specification		Remarks
Frequency range	F_nom	8.00MHz ~ 54.00MHz		Fundamental
Frequency tolerance	F_tol	±10.0ppm		
Frequency stability over temperature range	F_stb	±10.0ppm		Over -30°C ~ +85°C
Frequency aging	F_age	±1.0ppm		At 25°C, 1st Year
Operable temperature range	T_opr	-40°C ~ +85°C		
Storage temperature	T_stg	-55°C ~ +125°C		
Load capacitance	CL	8.0pF ~ 30.0pF, series		
Equivalent series resistance	8.0 ~ 9.999MHz	ESR	120Ω max	
	10.0 ~ 11.999MHz		80Ω max	
	12.0 ~ 23.999MHz		50Ω max	
	24.0 ~ 54.000MHz		30Ω max	
Shunt capacitance	C0	7.0pF max		
Drive level	DL	300µW max		100µW typical
Moisture sensitivity level	MSL	1 (unlimited)		
Insulation resistance	IR	500MΩ min		At 100V DC

Dimensions (mm)

Reflow profile

Part number generation									
QA	2700	-RF-	KO	M	E	F	1	L	-PF
ACT Series Code	Frequency (MHz)	RF series	Load capacitance (CL -pF)	Operable Temperature Range (°C)	Frequency Tolerance (±ppm)	Frequency stability over temperature -30°C~+85°C	1st year Aging (±ppm) at 25°C	Packaging (Tape & Reel)	RoHS
QA	8MHz = 0800 27MHz = 2700 Note: Use the first 4 characters of the frequency in Hz i.e. 27MHz =27000000Hz Part code =2700 If the frequency is 100MHz or higher than the first 5 characters are used.	-RF-	8 = GO 9 = JO 10 = KO 11 = MO 12 = OO 14 = PO 16 = RO	-40 ~ +85 = M	±10 = E	±10 = F	±1 = 1	Loose = L 3000pcs = D	RoHS = -PF
Note: It is important to suffix the above part number with full frequency required to give a completed part number as illustrated below. Full Example Part Number : QA2700-RF-KOMEF1L-PF [27.000MHz] , QA2457-RF-KOMEF1L-PF [24.576MHz], QA0800-RF-KOMEF1L-PF [8.000MHz]									