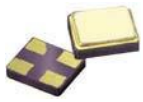
2016H SMX-4 (RF Clock Series)

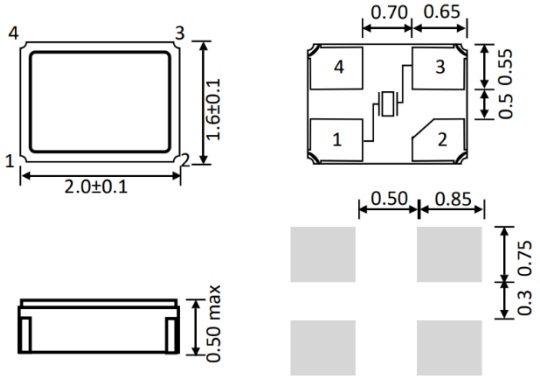
2.0 x 1.6mm crystal unit

RoHS & REACH compliant
Miniature size crystal
Highly reliable seam seal 4 pad ceramic package
Low aging crystal, specifically designed for RF applications, UAVs and Drones

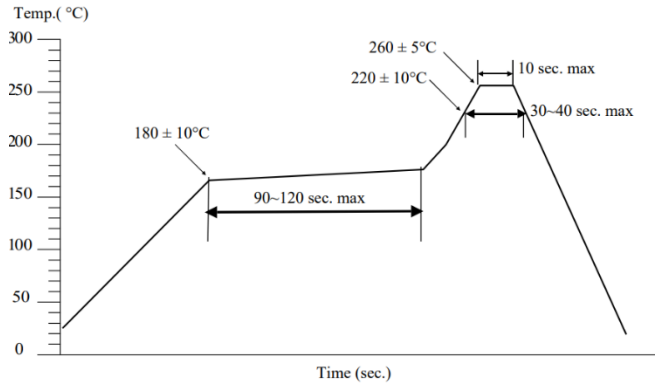


Parameters			Specification	Remarks
Frequency range		F_nom	16.00MHz ~ 96.00MHz	Fundamental
Frequency tolerance		F_tol	±10.0ppm	
Frequency stability over temperature range		F_stb	±10.0ppm	Over -30°C ~ +85°C
Frequency aging		F_age	±1.0ppm	At 25°C, 1st Year
Operable temperature range		T_opr	-40°C ~ +85°C	-40°C ~ +125°C option available. Please enquire.
Storage temperature		T_stg	-55°C ~ +125°C	
Load capacitance		CL	6.0pF ~ 16.0pF	
Equivalent series resistance	16.0 ~ 18.999MHz	ESR	200Ω Max.	
	19.0 ~ 24.999MHz		100Ω Max.	
	25.0 ~ 29.999MHz		80Ω Max.	
	30.0 ~ 74.999MHz		60Ω Max.	
	75.0 ~ 96.000MHz		30Ω Max.	
Shunt capacitance		C0	2.0pF Max.	
Drive level		DL	100µW Max.	50µW Typ.
Moisture sensitivity level		MSL	1 (unlimited)	
Insulation resistance		IR	500MΩ min	At 100V DC

Dimensions (mm)



Reflow profile



Part number generation

CX	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	1gt year Aging (±ppm) at 25°C	Packaging (Tape & Reel)	RoHS
CX	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-	6 = BO 7 = DO 8 = GO 9 = JO 10 = KO 11 = MO 12 = OO 13 = YO 14 = ZO 15 = 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 : **CX2700-RF-KOMEF1L-PF [27.000MHz] , CX2457-RF-KOMEF1L-PF [24.576MHz]**

Drawing control: (Internal use only), Commodity code: 854160 00 00, Issue number:4 .Date: 19/06/2025. Internal reference: H2

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