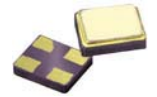


# 3225H SMX-4 (RF Clock Series)



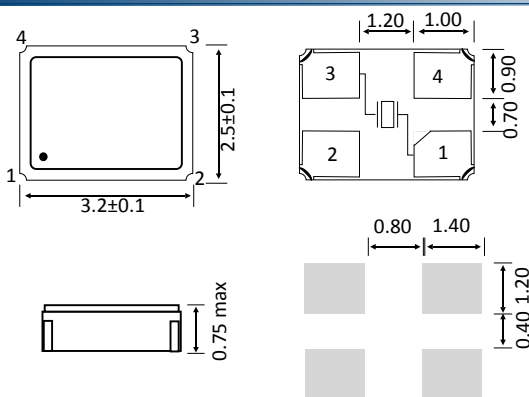
## 3.2 x 2.5mm Crystal unit

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

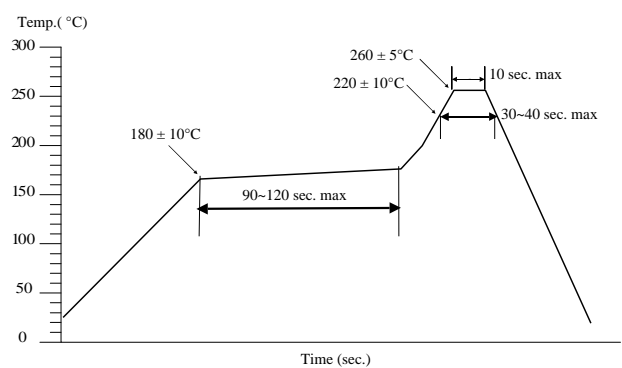


Parameters		Specification	Remarks
Frequency range	F_nom	10.00MHz ~ 64.00MHz	Fundamental
Frequency tolerance	F_tol	±10.0ppm	
Frequency stability over temperature range	F_stb	±10.0ppm	Over -30°C ~ +85°C
Frequency aging	F_age	±1.0ppm	At 25°C, 1 <sup>st</sup> Year
Operable temperature range	T_opr	-40°C ~ +85°C	
Storage temperature	T_stg	-55°C ~ +125°C	
Load capacitance	CL	8.0pF ~ 16.0pF	
Equivalent series resistance	10.0 ~ 11.999MHz	ESR	150Ω max
	12.0 ~ 19.999MHz		100Ω max
	20.0 ~ 23.999MHz		70Ω max
	24.0 ~ 64.000MHz		50Ω max
Shunt capacitance	C0	3.0pF max	
Drive level	DL	200μW max	100μW typical
Moisture sensitivity level	MSL	1 (unlimited)	
Insulation resistance	IR	500MΩ min	At 100V DC

### Dimensions (mm)



### Reflow profile



### Part number generation

BNH	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	1 <sup>st</sup> year Aging (±ppm) at 25°C	Packaging (Tape & Reel)	RoHS
BNH	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 : BNH2700-RF-KOMEF1L-PF [27.000MHz] , BNH2457-RF-KOMEF1L-PF [24.576MHz]

Drawing control: (Internal use only), Commodity code: 854160 00 00, Issue number: 1, Date: 1/2/2017, Internal reference: H2