

3225H SMX-4 (RF Clock Series)

3.2 x 2.5mm Crystal unit

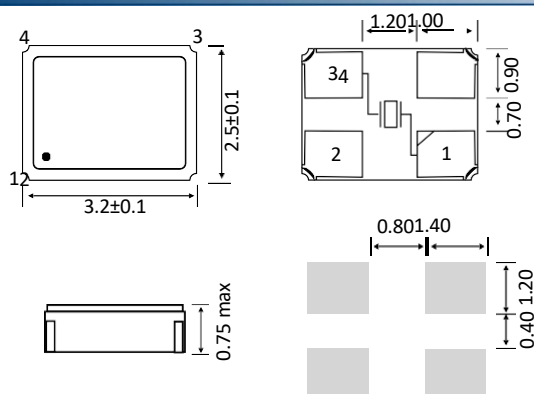


RoHS & REACH compliant
Small outline SMD crystal
Highly reliable seam seal 4 pad ceramic package
Low aging crystal, specifically designed for RF applications, UAVs and Drones

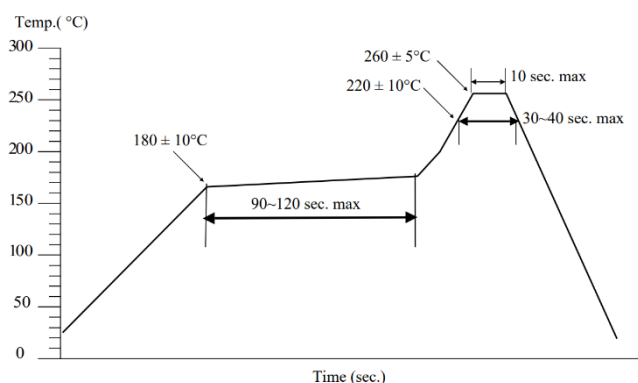


Parameters		Specification		Remarks
Frequency range	F _{nom}	8.00MHz ~ 64.00MHz		Fundamental
Frequency tolerance	F _{tol}	±10.0ppm		
Frequency stability over temperature range	F _{stb}	±10.0ppm		Over -30°C ~ +85°C
Frequency aging	F _{age}	±1.0ppm		At 25°C, 1st Year
Operable temperature range	T _{opr}	-40°C ~ +85°C		-40°C ~ +125°C option available. Please enquire.
Storage temperature	T _{stg}	-55°C ~ +85°C		
Load capacitance	CL	8.0pF ~ 16.0pF		6.0pF ~ 20.0pF option available. Please enquire.
Equivalent series resistance	8.0 ~ 9.999MHz	ESR	300Ω max	
	10.0 ~ 15.999MHz		150Ω max	
	16.0 ~ 19.999MHz		80Ω max	
	20.0 ~ 23.999MHz		60Ω 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 st 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 then the first 5 characters are used.	-RF-	8 = GO 9 = JO 10 = KO 11 = MO 12 = OO 14 = ZO 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]**

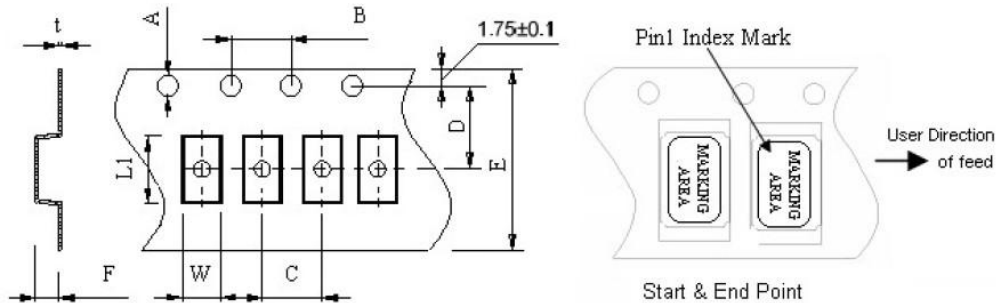
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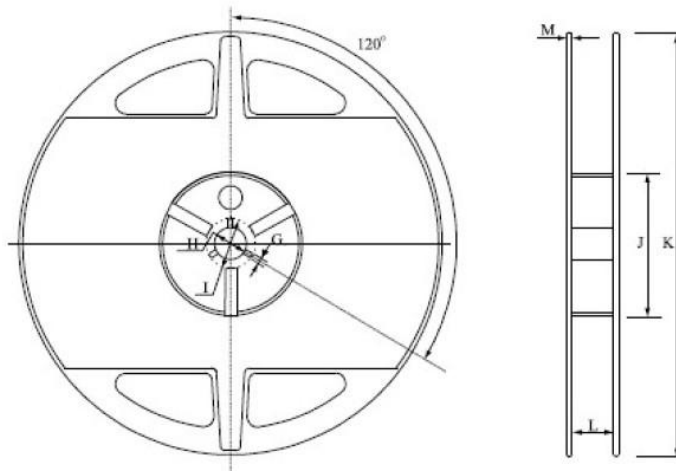
Tape and Reel Specification (mm)

Tape Dimensions(unit : mm)



A	B	C	D	E	F	L1	W	t
1.5±0.1	4.0±0.1	4.0±0.1	3.5±0.1	8.0±0.1	0.8±0.1	3.4±0.1	2.7±0.1	0.25±0.05

Reel Dimensions(unit: mm)



G	H	I	J	K	L	M
2.2±0.5	13.5±0.5	18.2±0.5	60.0±1.0	178.0±1.0	9.5±1.0	1.6±0.2

*3000pcs/Reel

Drawing control: (Internal use only)
Commodity code: 854160 00 00
Issue number: 4
Date: 20/06/2025
Internal reference: H2

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