

2016H SMX-4 (RF Clock Series)

2.0 x 1.6mm crystal unit

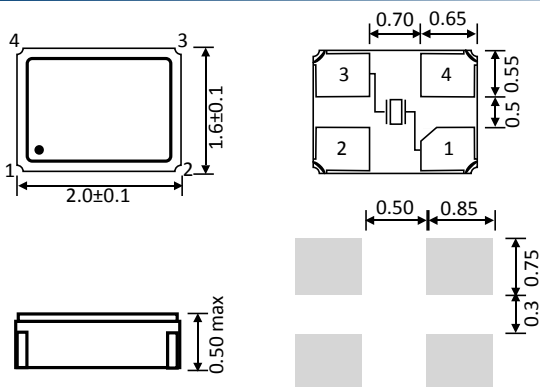


RoHS & REACH compliant
 Miniature size crystal
 Highly reliable seam seal 4 pad ceramic package
 Low aging crystal, specifically designed for RF application

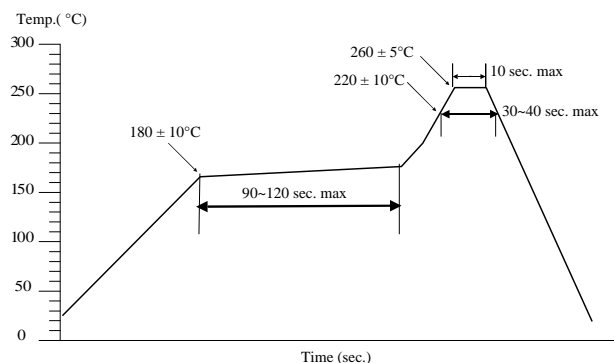


| Parameters | | Specification | Remarks |
|--|------------------|---------------------|-------------------------------|
| Frequency range | F_nom | 16.00MHz ~ 62.50MHz | Fundamental |
| Frequency tolerance | F_tol | ±10.0ppm | |
| Frequency stability over temperature range | F_stb | ±10.0ppm | Over -30°C ~ +85°C |
| Frequency aging | F_age | ±1.0ppm | At 25°C, 1 st 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 | 16.0 ~ 18.999MHz | ESR | 200Ω max |
| | 19.0 ~ 24.999MHz | | 100Ω max |
| | 25.0 ~ 29.999MHz | | 80Ω max |
| | 30.0 ~ 62.500MHz | | 60Ω max |
| Shunt capacitance | C0 | 3.0pF max | |
| Drive level | DL | 100μW max | 50μW typical |
| 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 | 1 st 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- | 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 : CX2700-RF-KOMEF1L-PF [27.000MHz] , CX2457-RF-KOMEF1L-PF [24.576MHz]

Drawing control: (Internal use only), Commodity code: 854160 00 00, Issue number: 1, Date: 1/02/2017, Internal reference: H2