

EDCON-COMPONENTS



SPECIFICATION:

Frequency Range: 32,768Khz
 Operation Mode:
 Operating Temperature: look order Code
 Storage Temperature: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$
 Frequency Tolerance: look order Code
 Temperatur Coefficient: $-0,034 \pm 0,006 \text{ppm}/(^{\circ}\text{C})^2$
 Serie Resistance: 70K Ω max.
 Shunt Capacitance: 1,5pf typ.
 Load Capacitance: look order Code
 Drive Level: 0,5 μW
 Aging @ xx per Year: $\pm 3 \text{ppm max.}$
 Dynamic Capacitance: 2,5ff typ
 Insulation Resistance: 500M Ω Max.

Dimensions (mm)

Length: 3,2mm
 Wide: 1,5mm
 Height: 0,9mm

Technical and Mechanical Explanation

Temperature cycling: $\pm 5 \text{ppm max. } -55^{\circ}\text{C to } +85^{\circ}\text{C, 3Cycles, 2hours max. Reference } 25^{\circ}\text{C.}$
 Thermal Shock: $+85^{\circ}\text{C and } -55^{\circ}\text{C. Exposure time at extreme temperature for 5 minutes, 3 cycles.}$
 Vibration: Frequency with an amplitude of 1,5mm sweeping between 10Hz to 55Hz within 1 minute for 2 hours minimum on each axis (x,y,z)
 Drop test: Natural drop on a hard wood board at 75cm , 3 times
 Humidity: 85% RH at $+85^{\circ}\text{C}$, 96 hours minimum
 Marking permanency: Dip units in solvents, 10strokes with brush , 3 times
 Fine leak test: Helium leak, $< 2\text{E-}8 \text{atm. Cc/sec.}$
 Gross leak test: 100% in De-ionized water or Perfluorocarbon for 60s. Min.
 Solderability: Dip in solder ($255^{\circ}\text{C } \pm 5^{\circ}\text{C}$ for 5 seconds. More than 95% of surface being tested should be coated uniformly with solder.
 Lead bend: Will with stand maximum bend of 90°C reference to base for 2 bends.

**Clock Quarz Chrystal
3,2x1,5mm**

Part No.: **O12028**

DRW:	HQ	CHKD	Wilson	MATL:	WHX	TOLERANCE	John	DATE	14.07.2022
APPD:	YQ	HHQ		FINISH	XM		Sheet No.		1 from 4

Customer:

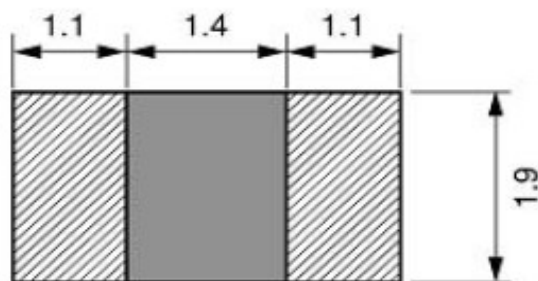
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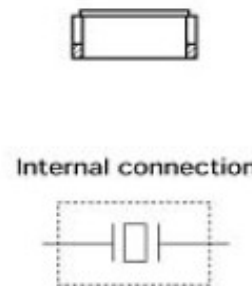
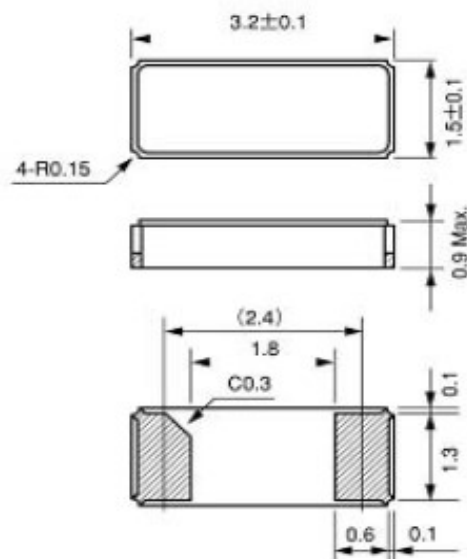
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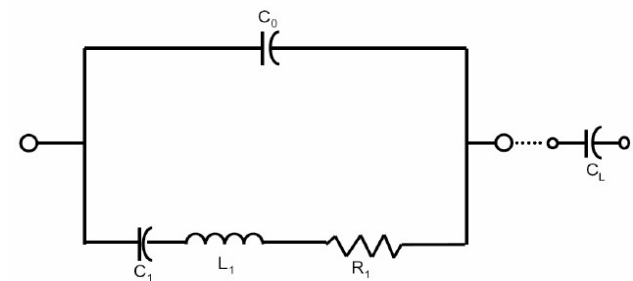
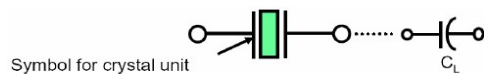
P.C.B Layout



Drawing



Circuit



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Ordering Informations

Serie	Frequency	Frequency Tolerance (ppm)	Frequency Stability (ppm)	Oscillator Mode	Operating Temperature	Load Capacity	Rohs Conform	Packing		
O12028	32K768	D	N	N	3	C	R	TR		

xMxxxxx Mhz (max 6 Letters)					A= 6pf	R= Rohs Conform	BU= Bulk Ware
					B= 7pf		
				2= -20°C ~ +70°C	C= 12,5pf	N= NON Rohs Conform	TR= Tape Reel 3K PCS
				3= -40°C ~ +85°C	D= 9pf		
	D= 20ppm max.			4= -40°C ~ +125°C			
E= 10ppm max.							
			N= No function				
		N= No function					

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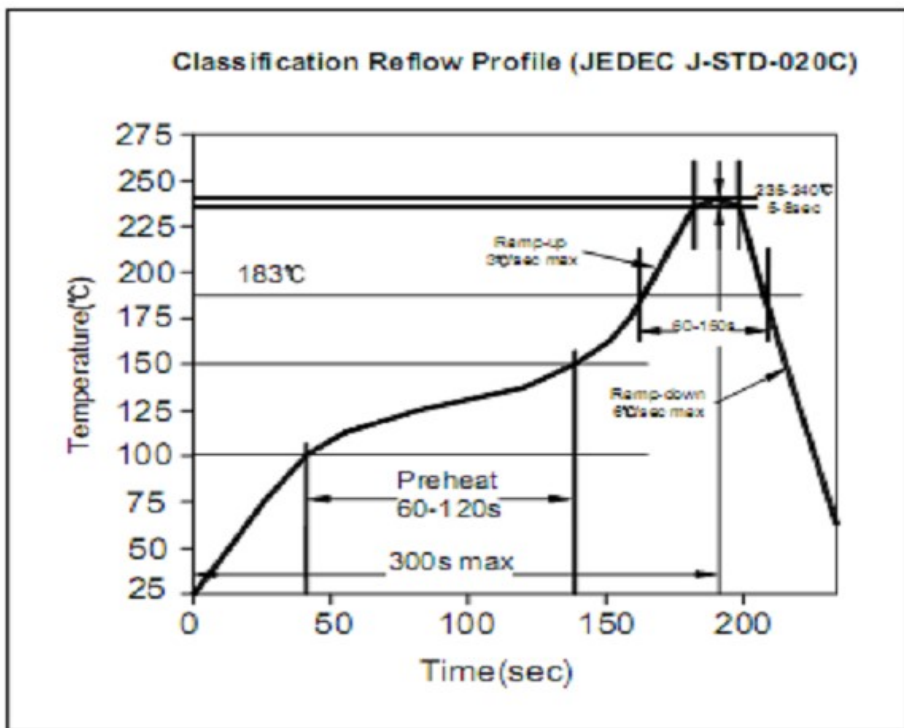
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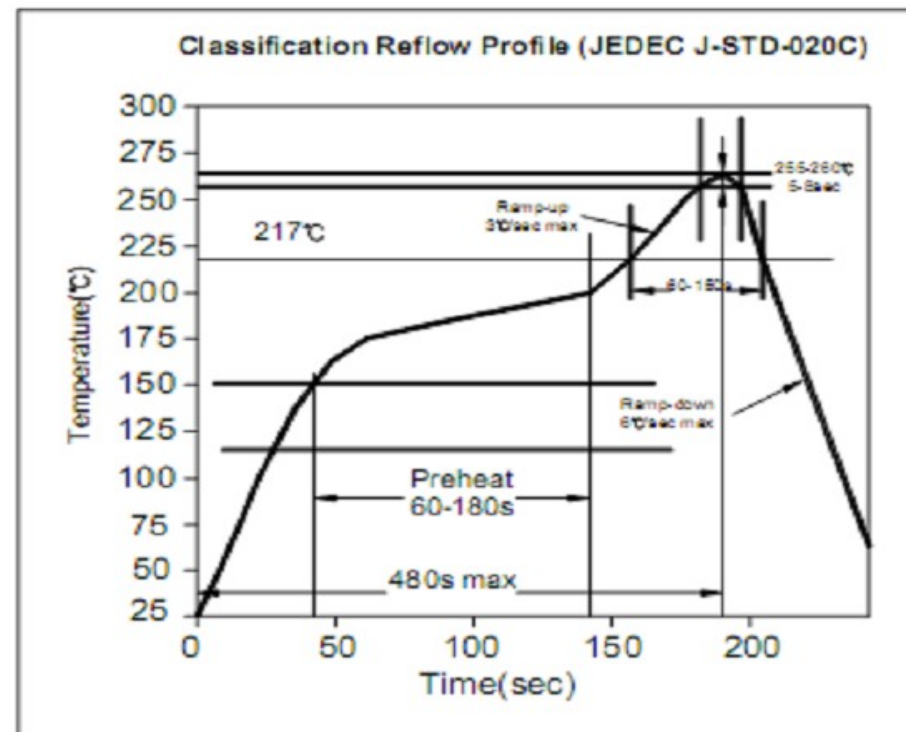


Soldering Conditions

Lead Soldering Conditions



Lead Free Soldering Conditions



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