



2.0 x 1.6 x 0.59 mm



SPECIFICATION:

Frequency Range: 18,00 ~ 50 Mhz
 Operation Mode: Fundamental
 Operating Temperature: . -10°C to + 50°C (see options)
 Storage Temperature: . -40°C to + 85°C
 Frequency Tolerance: ± 30ppm max. (see options)
 Frequency Stability: ± 50ppm max. (see options)
 Equ. Serie Resistance: see ESR table
 Shunt Capacitance: 7pf max.
 Load Capacitance: 10pf (see options)
 Drive Level: 10 ~100µ W. max.
 Aging @ xx per Year .+/- 5ppm @ 25°C
 Insulation Resistance: 500MΩ min. with 100Vdc ±15Vdc

Technical and Mechanical Explanation

Temperature cycling: . +/-5ppm max. -55°C to +85°C, 3Cycles, 2hours max. Reference 25°C.
 Thermal Shock: . +85°C and -55°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°C, 96 hours minimum
 Marking permanency: Dip units in solvents, 10strokes with brush , 3 times
 Fine leak test: Helium leak, <2E-8atm. Cc/sec.
 Gross leak test: 100% in De-ionized water or Perfluorocarbon for 60s. Min.
 Solderability: Dip in solder (255°C +/- 5°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.

Dimensions (mm)

Length:	2.0mm
Wide:	1,6mm
Height	0,6mm

Standard ESR table

Frequency	ESR max.
18,000 ~ 20,999 Mhz	120 Ω
21,000 ~ 29,999Mhz	100 Ω
30,000 ~ 37,999Mhz	80 Ω
38,000 ~ 50,000Mhz	60 Ω

**SMD Quarz Crystal
2,0x1,6mm**

Part No.: **O12053**

DRW:	HQ	CHKD	Wilson	MATL:	WHX	TOLERANCE	John	DATE	11.01.2021
APPD:	YQ	HHQ		FINISH	XM		Sheet No.		1 from 4

Customer:

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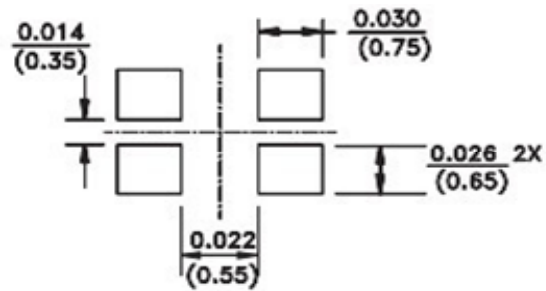
email: info@edcon-components.com



2.0 x 1.6 x 0.59 mm

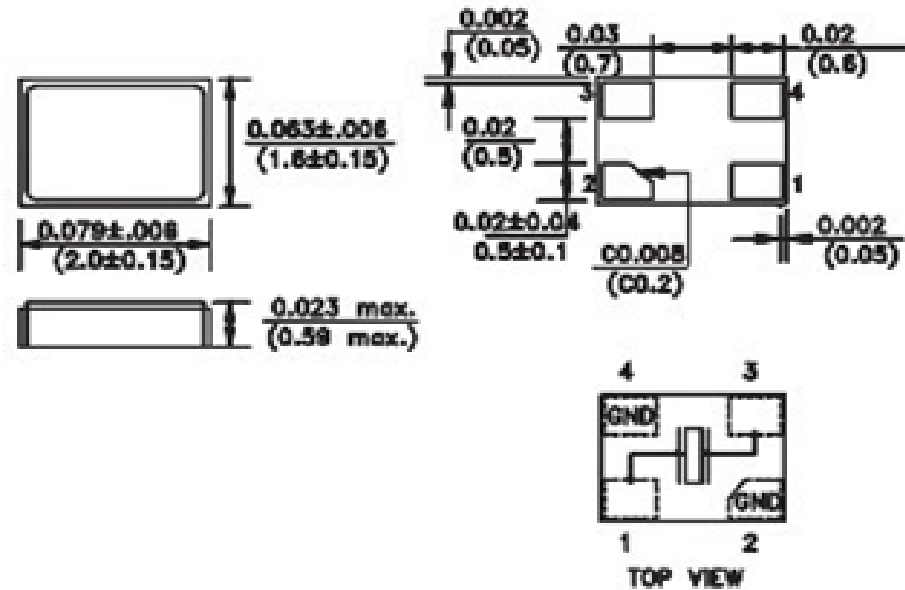


P.C.B Layout



Note: Due to the availability of raw material, this part may be manufactured with the chamfer on pin 1 or 4. Be advised taht does not affect the elecgrtral characteristics of the crystal in any way.

Drawing



SMD Quarz Crystal	
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Ordering Informations

Serie	Frequency	Frequency Tolerance (ppm)	Frequency Stability (ppm)	Oscillator Mode	Operating Temperature	Load Capacity	Rohs Conform	Packing		
O12053	26M00000	B	2	A	1	B	R	TR		

xMxxxxx Mhz (max 6 Letters)	A= Fund.		1= -10°C ~ +50°C	B= 10pf	R= Rohs Conform	BU= Bulk Ware
	B= 50ppm	2= 50ppm		2= -20°C ~ +70°C	C= 12,5pf	N= NON Rohs Conform
C= 30ppm	3= 30ppm		3= -40°C ~ +85°C	D= 15pf		
D= 20ppm	4= 20ppm			E= 16pf		
E= 10ppm	5= 10ppm			F= 18pf		
				G= 20pf		
				H= 22pf		
				I= 27pf		
				J= 33pf		
				K= 33pf		
				L= 30pf		
				M= 9pf		
				N= 12pf		

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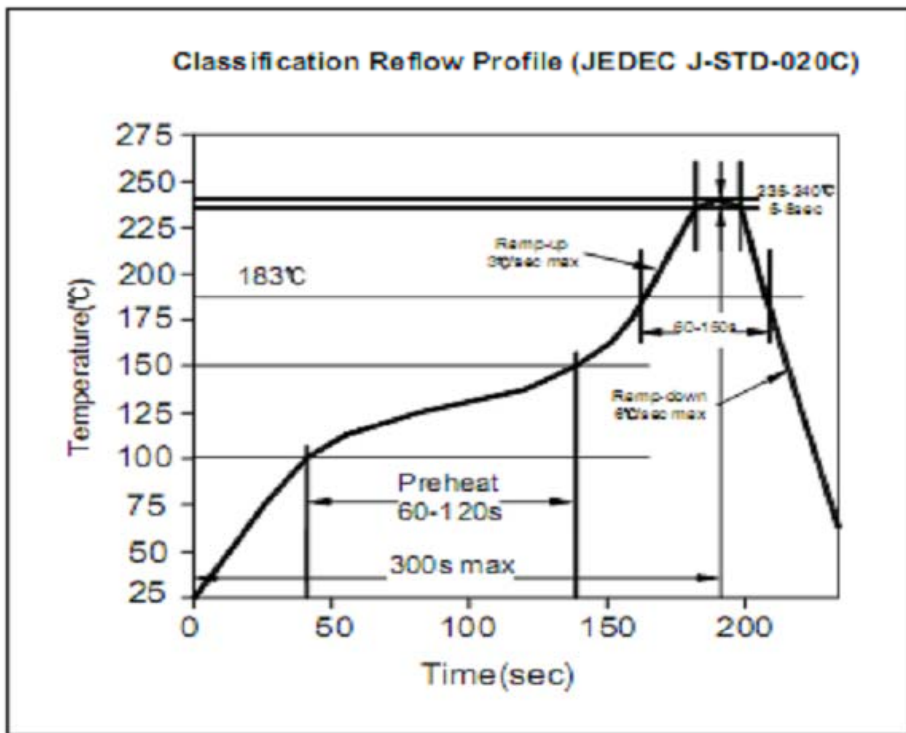


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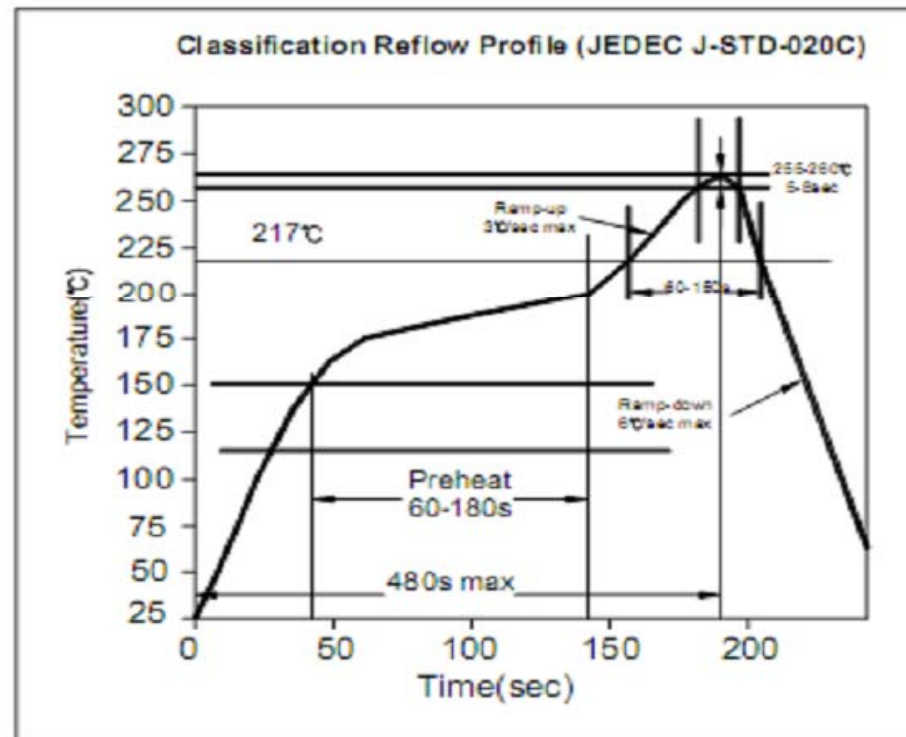


Soldering Conditions

Lead Soldering Conditions



Lead Free Soldering Conditions



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