

Dimension (mm)	
Length:	2,5
Wide:	2,0

Ceramic Body with Metal Cap



Feature

Tight symmetry (45 to 55% available).

Operation Voltage: 1,8V, 2,5V, 3,3V

Tri-State enable / disable

SPECIFICATION:

Parameter	3,3V		2,5V		1,8V		Unit
	Min.	Max.	Min.	Max.	Min.	Max.	
Supply Voltage Variation	3,135	3,465	2,375	2,625	1,71	1,89	V
Frequency Range	1,25	1,25	1,25	1,25	1,25	1,25	Mhz
Standard Frequency	24,26,30,40						Mhz
Supply Curent (at 15pf Load)	--	15	--	10	--	7	mA
Duty Cycle	45	55	45	55	45	55	%
Transiton Time : Rise/Fall Time	1,25Mhz ≤F=<10Mhz		--	3	--	5	nSec.
	10Mhz ≤F=<125Mhz		--	3	--	4	
Output Level	Out High		2,97	2,25	1,62		V
	Out Low		--	0,33	--	0,18	
Start Time	--	2	--	2	--	2	mSec.
Tri-State (Input to Pin 1)	Enable (High Voltage or floating)		2,31	--	1,75	--	V
	Disable (Low Voltage or GND)		--	0,99	--	0,54	
Period Jitter (Pk-Pk)	--	40	--	40	--	40	pSec.
RMS Phase Jitter (integrated 12Khz to 20Mhz)	--	1	--	1	--	1	pSec.
Standby Current (@ -40°C to 85°C)	--	10	--	10	--	10	µA
Standby Current (@ -40°C to 125°C)	--	20	--	20	--	20	µA
Aging (@ 25 1st year)	--	±3	--	±3	--	±3	ppm
Storage Temp. Range	-.55	125	-.55	125	-.55	125	°C

Standard Frequencies are frequencies which the crystal has been designed and does not imply a stock position

+ Transition times are measured between 10% and 90% of VDD, with an output load of 15pf.

Inclusive of initial frequency tolerances at 25°C operating temperature range, supply voltage change, load variation and 1st year aging.

Please consult our sales representaion for other specifications.

DRW:	HQ	CHKD	Wilson	MATL:	WHX	TOLERANCE	John	DATE	12.07.2021
APPD:	YQ	HHQ		FINISH	XM		Sheet No.		1 from 4

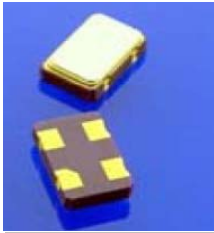
**Quarz Crystal Oscillator
2,5x2,0mm**

Part No.: **O14004**

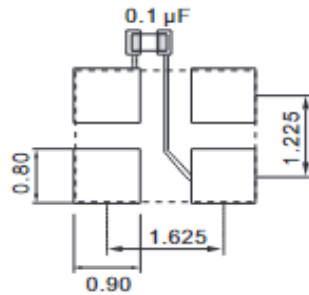
Customer:

www.edcon-components.com

email: info@edcon-components.com



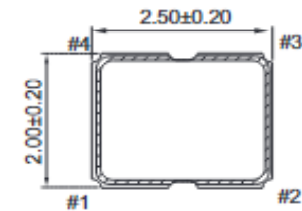
P.C.B Layout



Drawing



Side View

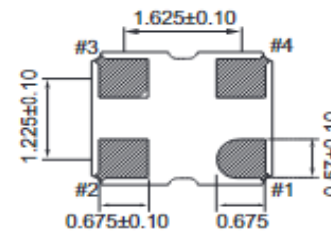


Top View

To ensure optional oscillator performance, place a by pass capacitor of 0,1μF as close to the parts as possible between Vdd and GND pads

Freq. . Stability / Temp. Range				
	PPM			
Temp. (°C)	±20	±25	±50	
.-10° ~ +60	0	0	0	
.-20° ~ +70	?	0	0	
.-40° ~ +85	X	0	0	
.-40° ~ +125	X	X	0	

- 0 Available
- ? on request
- X Not Available



Bottom View

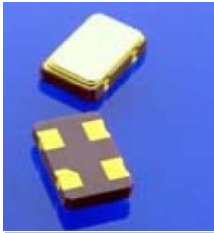
Pin#	Function
1	Tri-state
2	GND
3	Output
4	VDD

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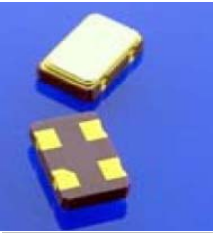
Ordering Informations

Serie	Frequency	Temperature Stability (ppm)	Frequency Stability (ppm)	Operating Temperature	Voltage Select	Type	ROHS Conform	Packing	
O14004	xxMxxxxx	N	1	A	2	C	R	TR	

xMxxxxxx Mhz (max 8 Letters)			A= -10°C ~ +60°C	1= 1,8Volt	C= C-Mos	R= Rohs Conform	BU= Bulk Ware
		2= 50ppm	B= -20°C ~ +70°C	2= 2,5Volt		N= NON Rohs Conform	TR= Tape Reel
			C= -40°C ~ +85°C	3= 3,3Volt			
		4= 20ppm	D= -40°C ~ +125°C				
		5= 25ppm					
		N= No function					

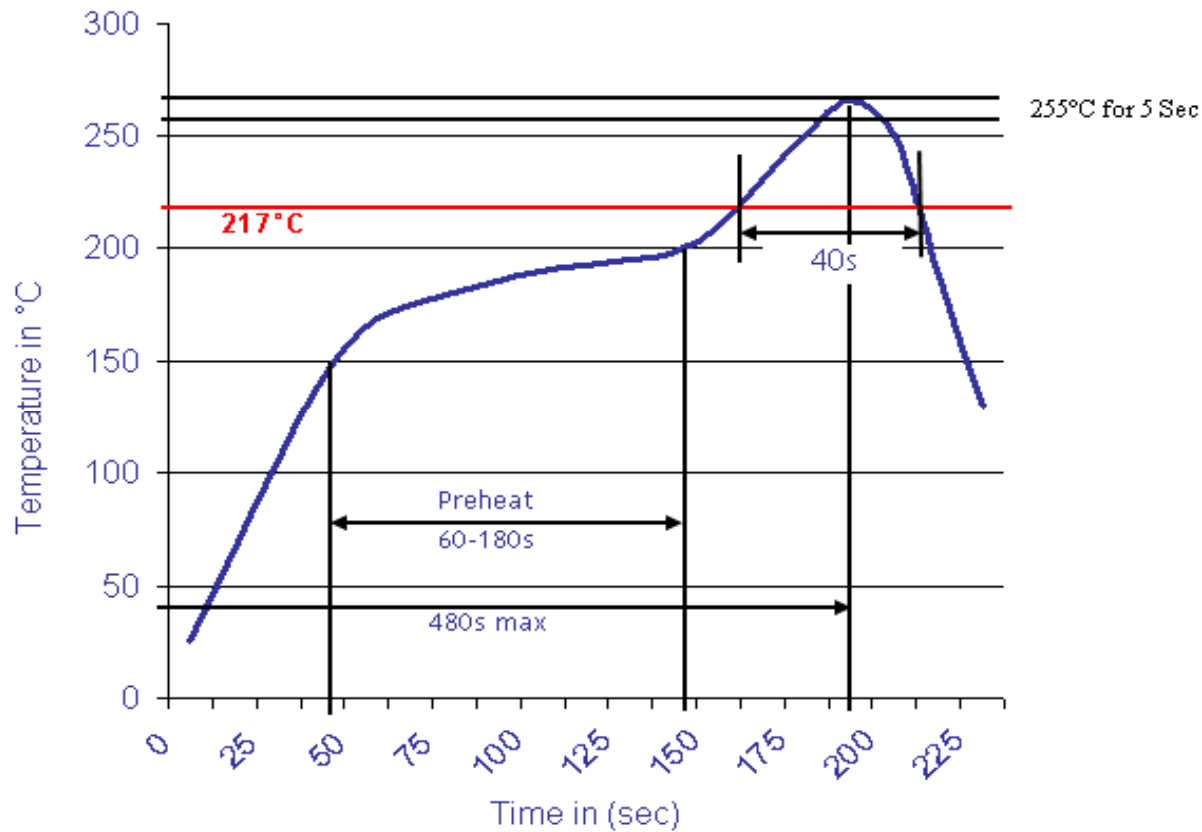
Quarz Crystal Oscillator 2,5x2,0mm	
Part No.:	O14004
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Soldering Conditions

Classification Reflow Profile (JEDEC J-STD-020C)



Quarz Crystal Oscillator 2,5x2,0mm	
Part No.:	O14004
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