

Dimension (mm)	
Length:	5,0
Wide:	3,2

Ceramic Body with Metal Cap



SPECIFICATION:

Frequency Range: 1 ~ 150 Mhz
 Operation Mode: C-MOS
 Operating Temperature: look Ordering Code
 Storage Temperature: . -55°C ~ +125°C
 Frequency Stability: look Ordering Code
 Temperature Stability: look Ordering Code
 Output Current: ± 8mA max.
 Output Voltage Voh 90% Vdd
 Output Voltage Vol 10% Vdd
 Start-Up time: 5ms max.
 Aging @ xx per Year .+/- 3ppm
 Supply Voltage 1,8V±5% / 2,8V±5% / 3,3V±5%
 5,0V±5%

Frequency Range: 1 ~150Mhz
 Oscillation Mode Fundamental / 3rd Overtone
 Output Load: 15pf , 30pf
 Symetry: 40~60%
 Phase Jitter:12khz ~ 20Mhz 1ps max.
 Rise (Tr) / Fall Tf) Time 8ns max.

Current Consumption

	1,8V	2,5V,2,8V, 3,3V	5V
1~75Mhz	5mA max.	10mA max.	20mA max.
75~50mHz	15mA max.	20mA max.	N/A

Technical and Mechanical Explanation

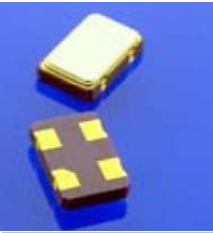
Temperature cycling: . +/-5ppm max. -55°C to +85°C, 3Cycles, 2hours max. Reference 25°C.
 Thermal Shock: . +85°C and -55°C. Exposure time at extreme temperature for 5 minutes, 3 cycles.
 Vibration: Frequency with an amplitude of 1,5mm sweeping between 10Hz to 55Hz within 1 minute for 2 hours minimum 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.

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

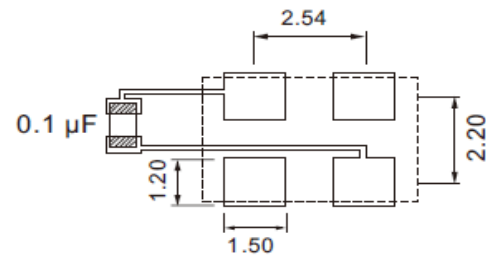
Please consult our sales representaion for other specifications.

DRW:	HQ	CHKD	Wilson	MATL:	WHX	TOLERANCE	John	DATE	14.06.2021
APPD:	YQ	HHQ		FINISH	XM		Sheet No.		1 from 4

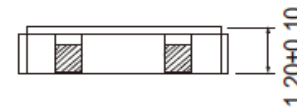
Quarz Crystal Oscillator 5,0x3,2mm	
Part No.:	O14005
Customer:	



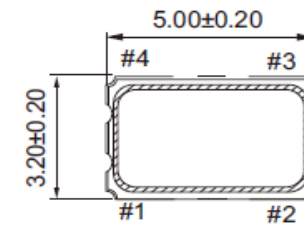
P.C.B Layout



Drawing

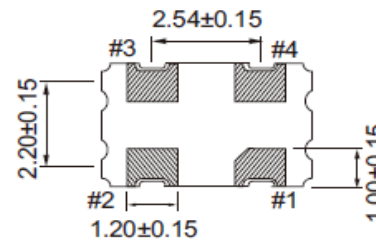


Side View



Top View

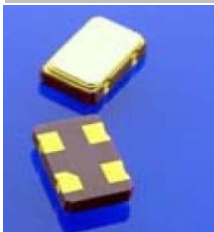
Pin#	Function
1	Enable Contr
2	GND
3	Output
4	VDD



Bottom View

Quarz Crystal Oscillator 5,0x3,2mm	
Part No.:	O14005
Customer:	

DRW:	HQ	CHKD	Wilson	MATL:	WHX	TOLERANCE	John	DATE	14.06.2021
APPD:	YQ	HHQ		FINISH	XM		Sheet No.		2 from 4



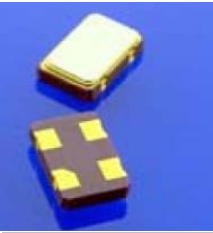
Ordering Informations

Serie	Frequency	Temperature Stability (ppm)	Frequency Stability (ppm)	Operating Temperature	Voltage Select	Type	ROHS Conform	Packing	
O14005	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 1K PCS
		3= 30ppm	C= -40°C ~ +85°C	3= 3,3Volt			
		4= 20ppm		5= 5,0Volt			
		5= 25ppm					
		N= No function					

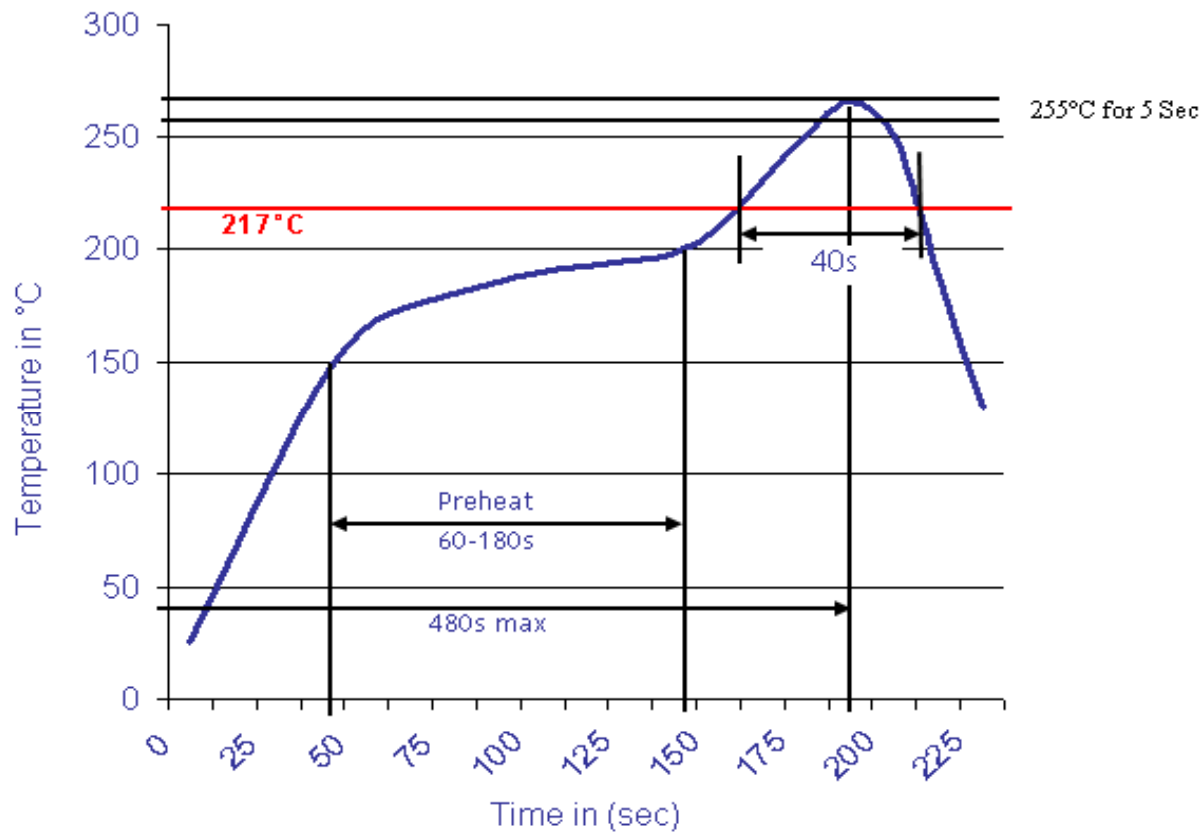
Quarz Crystal Oscillator 5,0x3,2mm	
Part No.:	O14005
Customer:	

DRW:	HQ	CHKD	Wilson	MATL:	WHX	TOLERANCE	John	DATE	14.06.2021
APPD:	YQ	HHQ		FINISH	XM		Sheet No.		3 from 4



Soldering Conditions

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



Quarz Crystal Oscillator 5,0x3,2mm	
Part No.:	O14005
Customer:	

DRW:	HQ	CHKD	Wilson	MATL:	WHX	TOLERANCE	John	DATE	14.06.2021
APPD:	YQ	HHQ		FINISH	XM		Sheet No.	4 from 4	