



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

Epoxy Resin Hermetic Seal



SPECIFICATION:

Frequency Range:	2,000 ~ 48,0 Mhz
Operation Mode:	C-MOS
Operating Temperature:	.-0°C ~ +70°C
Storage Temperature:	.-55°C ~ +125°C
Frequency Stability:	50ppm / 100ppm
Temperature Stability:	./-50ppm ~ +/-100ppm
Output Current:	± 8mA max.
Output Voltage Voh	90% Vdd
Output Voltage Vol	10% Vdd
Start-Up time:	10ms max.
Aging @ xx per Year	./- 5ppm
Operating Voltage	2,8V±10%, 3,3V±10%
Output Load	15pf

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.

SPECIFICATION:

Current consumption	2,0Mhz ~ 48,0MHz	30mA max.
Rise & Fall Time	2,0Mhz ~ 48,0MHz	8ns. Max

Inclusive of initial frequency tolerances at 25°C operating temperature range, supply voltage change, load variation and 1st year aging. Please consult our sales representation for other specifications.

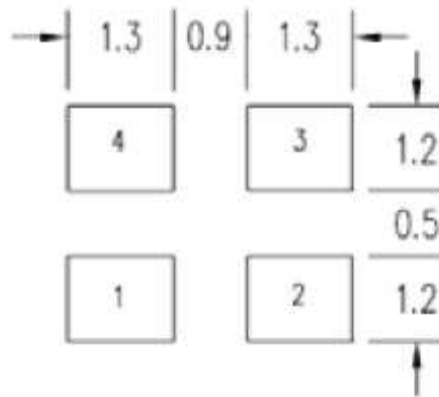
**Quarz Crystal Oscillator
3,2x2,5mm**

Part No.: **O14009**

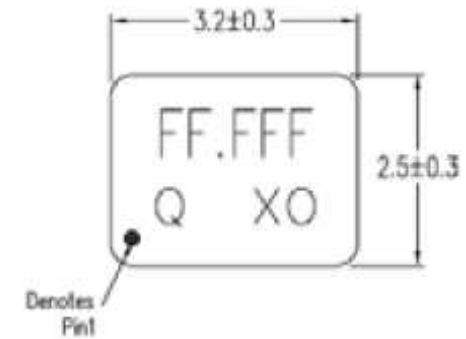
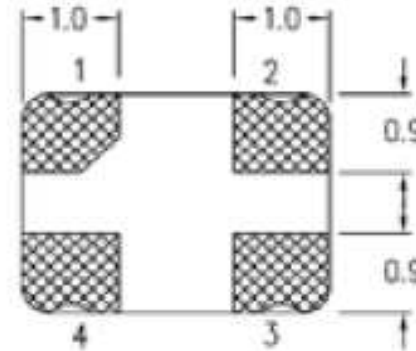
DRW:	HQ	CHKD	Wilson	MATL:	WHX	TOLERANCE	John	DATE	08.07.2010	Customer:
APPD:	YQ	HHQ		FINISH	XM		Sheet No.	1 from 4		



P.C.B Layout



Drawing



1	Enable/Disable*
2	GND
3	Output
4	VDD

**Quarz Crystal Oscillator
 3,2x2,5mm**

Part No.: **O14009**

DRW:	HQ	CHKD	Wilson	MATL:	WHX	TOLERANCE	John	DATE	08.07.2010	Customer:
APPD:	YQ	HHQ		FINISH	XM		Sheet No.	2 from 4		



Ordering Informations

Serie	Frequency	Frequency Stability (ppm)	Temperature Stability (ppm)	Operating Temperature	Voltage Select	Type	ROHS Conform	Packing
O14009	xxMxxxxx	A	1	D	3	C	R	TR

xMxxxxxx Mhz (max 8 Letters)	A= 100ppm	1= 100ppm			C= C-Mos	R= Rohs Conform	BU= Bulk Ware
	B= 50ppm	2= 50ppm				N= NON Rohs Conform	TR= Tape Reel 1K PCS
		3= 30ppm		3= 3,3Volt			
		4= 20ppm	D= -0°C ~ +70°C	5= 5,0Volt			

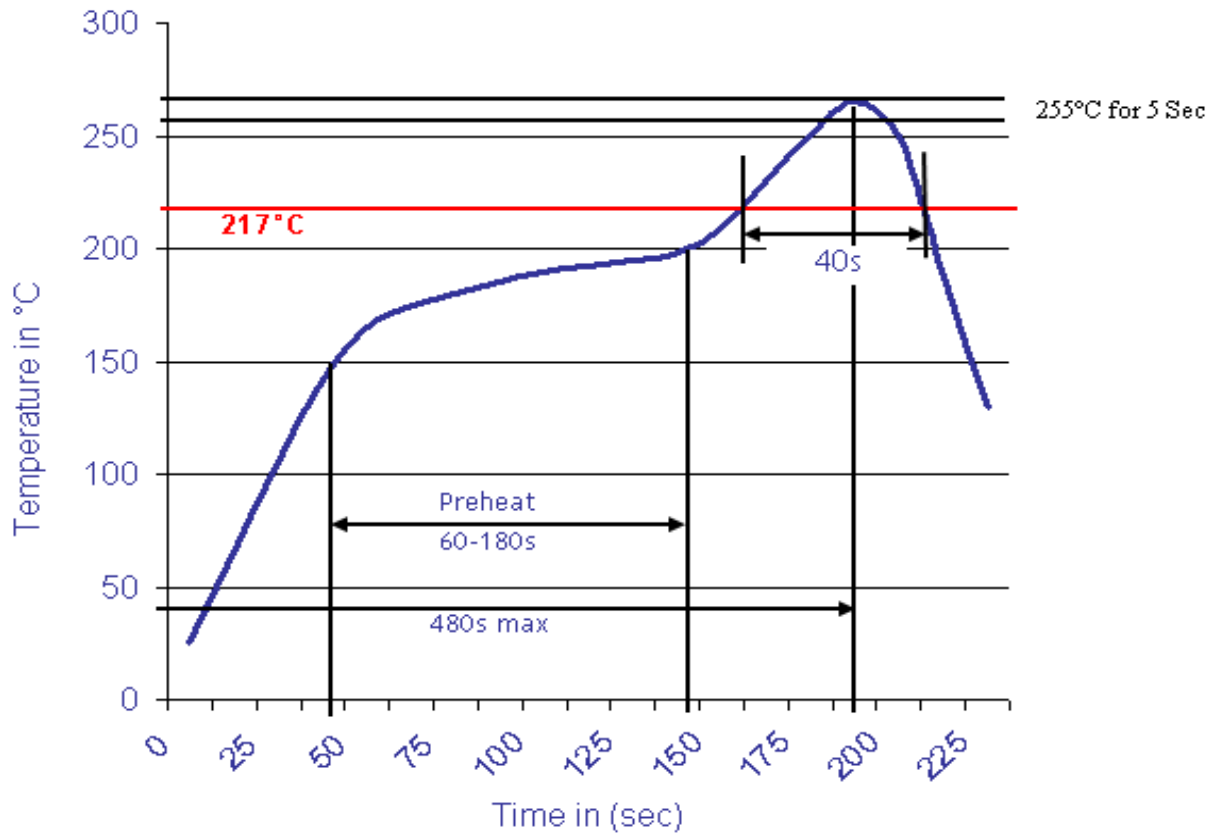
Quarz Crystal Oscillator 3,2x2,5mm
Part No.: O14009
Customer:

DRW:	HQ	CHKD	Wilson	MATL:	WHX	TOLERANCE	John	DATE	08.07.2010
APPD:	YQ	HHQ		FINISH	XM		Sheet No.		3 from 4



Soldering Conditions

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



**Quarz Crystal Oscillator
3,2x2,5mm**

Part No.: **O14009**

Customer:

DRW:	HQ	CHKD	Wilson	MATL:	WHX	TOLERANCE	John	DATE	08.07.2010
APPD:	YQ	HHQ		FINISH	XM		Sheet No.	4 from 4	