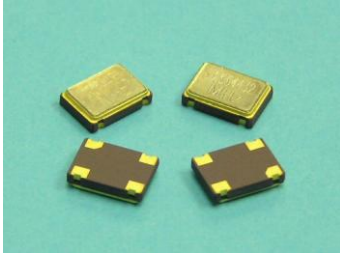


Product Specification

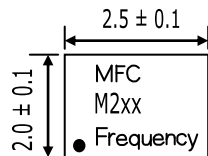


This product is certified to comply with the RoHS Directive 2002/95/EC.

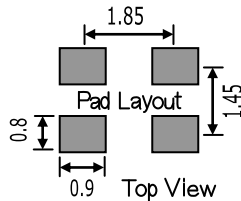
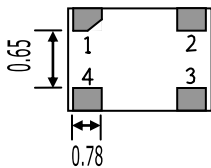
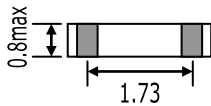
M230 Series SMD Clock Oscillator



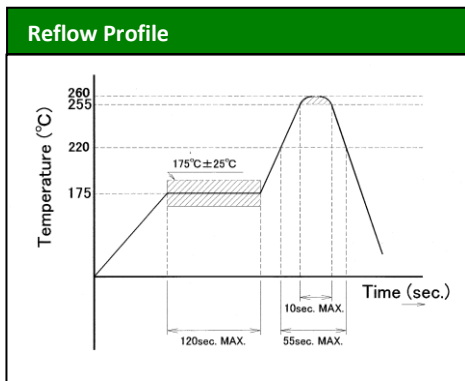
- 2.5x2.0x0.8mm
- Ceramic package
- 3.0V supply
- Small size
- Tri-state
- Wide frequency range
- -40 ~ +85°C available



Pad	Function
#1	E/D
#2	Ground
#3	O/P
#4	Supply



Specification	
Frequency range	0.75 ~ 50MHz
Stability (Note 1)	±25 ~ ±100ppm
Temp. range	-20 ~ +70°C -40 ~ +85°C
Supply voltage	3.0V±5%
Supply current	0.75 ~ 19.999MHz: 5.5mA max. 20.0 ~ 39.999MHz: 6.5mA max. 40.0MHz+: 7.5mA max.
Output	HCMOS 15pF
Duty cycle	50%±5%@V _{DD} /2
Rise/fall time	10nS max.
Enable/Disable	
Pin 1 High (Logic 1)	Output enabled
Pin 1 Open circuit	Output enabled
Pin 1 Low (Logic 0)	Output high impedance



Note 1: Stability is inclusive of adjustment at 25°C, temperature variation, supply and load variation and ageing.

* suffix denotes RoHS Compliant

Standard packing: 1Kpcs per 7" taped reel

Ordering Code Guide							
Series Code	Case	Voltage	Stability	Output	Temp. range	Frequency	RoHS
M	2=2.5x2.0mm	30=3.0V	A=±25ppm B=±50ppm C=±100ppm	H=HCMOS 15pF	C=-20 ~ +70°C I=-40 ~ +85°C	xxMxxx	*

Issue 2 05/07/10