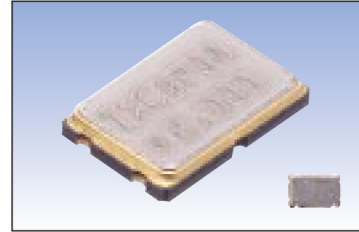


### Features

- Small SMD type clock crystal oscillator units.
- High precision characteristic covering up to wide frequency range.
- Designed for automatic mounting and reflow soldering.
- Optionable stand-by function for output: Tri-state output.
- Supply Voltage Range: 1.8V to 5.0V (1.8V / 2.5V / 2.8V / 3.3V / 5.0V).
- High stability, low jitter, low power consumption.
- Lead free parts.
- Main application: wireless communication, PC, LCDM.



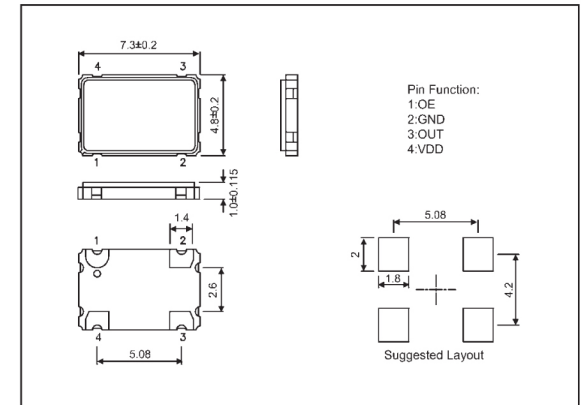
### Electrical Specifications

Item	Type	6N			
		CMOS			TTL
FanOut Type					
Supply Voltage		5.0V±10%	3.3V/2.8V/2.5V ±10%	1.8V±10%	5.0V±10%
Frequency Range		1.0 ~ 200MHz			1.0 ~ 200MHz
Frequency Stability (25 °C)		±50ppm/-40~+85 °C, ±25ppm/-20~+70 °C,			±50ppm/-40~+85 °C, ±25ppm/-20~+70 °C,
Operating Temperature		±20ppm/-10~+70 °C, or specify			±20ppm/-10~+70 °C, or specify
Storage Temperature Range		-55~+125 °C			-55~+125 °C
Aging (at 25 °C)		±3ppm / year Maximum			±3ppm / year Maximum
Output Load		15pF/50pF	15pF/30pF	15pF	10 TTL gate / 5 TTL gate
Supply Current		45mA Max.	30mA Max.	20mA Max.	45mA Max. / 30mA Max.
Voltage Vol (Max) / Voh (Min.)		0.1V <sub>DD</sub> / 0.9V <sub>DD</sub>			0.4V / 2.4V
Symmetry		40~60% Max.			40~60% Max.
Rise (Tr Max.) / Fall (Tf Max.) Time		10ns(1~10MHz), 7ns(20~50MHz), 5ns(>50MHz) Max.			10ns(1~10MHz), 7ns(20~50MHz), 5ns(>50MHz) Max.
Start-up Time		10ms Max.			10ms Max.
Integrated Jitter rms (12K~20M)		10ps Max.			10ps Max.

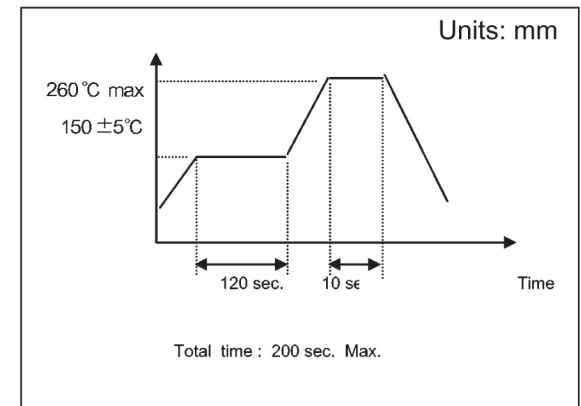
### Standard Frequency (MHz)

1.544	1.8432	2.048	3.6864	4	5
6.48	10	11.0592	12	12.288	14.31818
15.36	16	16.896	19.44	20	24
24.576	25	27	29.498928	29.4912	30
32.768	33	33.33	36	40	44
48	49.152	50	60	66	75
80	100	125	106.25		

### Dimensions



### Reflow Condition



**Remark:** Specification subject to change without prior notice. Please confirm with our sales.