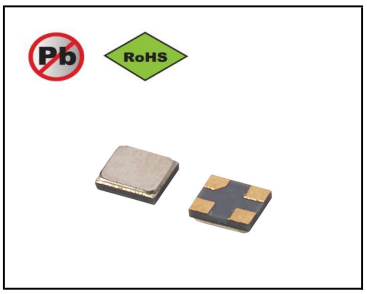
KCB CRYSTAL UNIT



■ SMD X-TAL 1.2×1.0mm 4PAD Seam Sealing

- Ultra miniature and lightweight Surface Mount package
- Fundamental crystal design
- Wide temperature and Ultra low ESR

● Applications : Mobile Communications, Wearables, IoT
Wireless applications

■ Standard Specification

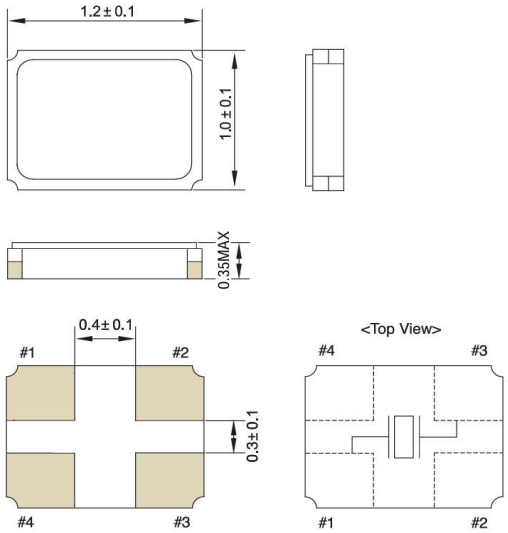
Frequency range	26.000MHz to 80.000MHz	
Oscillation mode	Fundmental	
Load capacitance (CL)	6pF to 32pF or please specify	
Frequency tolerance (25℃)	±10ppm, ±20ppm, ±30ppm	
Frequency Stability vs Temp range	Temp Stability	Operating temp
	±10ppm ±15ppm ±20ppm ±30ppm ±50ppm	-20 to +70℃ -30 to +85℃ -40 to +85℃
Storage temperature range	-55℃ to +125℃	
Shunt Capacitance (C0)	3.0pF Max	
Level of drive (DL)	100㎼ Max (std) or please specify	
Aging (Initial first year)	± 3ppm Max	

■ Motional resistance (ESR)

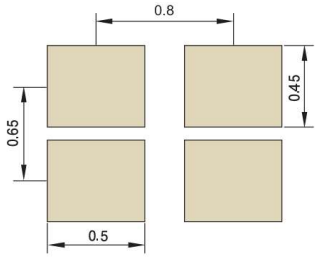
Frequency (MHz)	26 ≤ f < 32	32 ≤ f < 40	40 ≤ f < 80
CI (Ω) max	100	80	60
Oscillation mode	Fundmental		

*Please contact us for lower ESR

■ Dimensions (mm)



• Recommended Soldering Pattern



CONNECTION
#1 : X-TAL
#2 : GND
#3 : X-TAL
#4 : GND

■ Part Numbering Guide

KCB 10 1 30 AJ 26.000000 TR

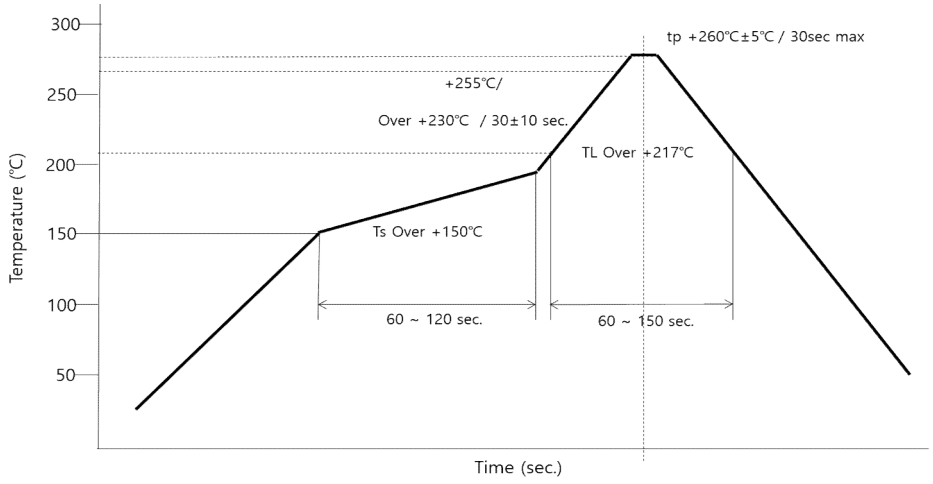
- ▶Package Type
- ▶Load Capacitance (pF)
- ▶(1) : Fund. AT
- ▶@25℃ Tolerance (±ppm)
- ▶Stability(ppm) vs. Temperature Range(℃)
- ▶Center Frequency : xxx.xxxxxxMHZ
- ▶Packing Type
  (TR) : Tape&Reel [3,000pcs], (Blank) : Bulk

■ Frequency Stability vs. Temperature Range

Temp' vs Stability		±10ppm	±15ppm	±20ppm	±25ppm	±30ppm	±50ppm	±100ppm	±150ppm
		J	K	L	M	N	O	P	Q
-10 ~ 60℃	A	◎	◎	◎	◎	◎	◎	◎	◎
-10 ~ 70℃	B	◎	◎	◎	◎	◎	◎	◎	◎
-20 ~ 70℃	C	◎	◎	◎	◎	◎	◎	◎	◎
-30 ~ 70℃	D	◎	◎	◎	◎	◎	◎	◎	◎
-30 ~ 85℃	E	◎	◎	◎	◎	◎	◎	◎	◎
-40 ~ 85℃	F		◎	◎	◎	◎	◎	◎	◎
-40 ~ 90℃	G					◎	◎	◎	◎
-40 ~ 105℃	H					◎	◎	◎	◎
-40 ~ 125℃	I					◎	◎	◎	◎
-40 ~ 150℃	J							◎	◎

*Please contact us for other specifications.

■ Recommendation reflow condition



(1) Reflow soldering heat resistance
Peak Temp. : 265℃, 30sec max.
Heating : 230℃ or higher, 40sec.
Preheating : 150~180℃, 120sec.
Reflow passage times : 2 times

(2) Manual soldering heat resistance
Pressing a soldering iron of 350℃ on the terminal electrode
Soldering touch time : 4sec.
Manual soldering times : 2 times