

**Temperature Compensated Crystal Oscillator "KT2016K series"**  
**KYOCERA Part Number : KT2016K30720BAW33EAK**

Note: This is a preliminary specification.

If you would like to know official specification and details specification, please contact us.

1.Nominal condition						
Item	SYMB.	Min.	Typ.	Max.	Unit	Conditions
Operating Temperature Range	T_use	-40	-	85	deg.C	
Storage Temperature Range	T_stg	-40	-	85	deg.C	
Supply voltage	Vcc	3.135	3.3	3.465	V	3.3V+/-5%
Load impedance	R1	9	10	11	kohm	
	CL	9	10	11	pF	
Control voltage range	Vcon	0.5	1.5	2.5	V	1.5V+/-1.0V

2.Electrical Characteristics							
Item	Electrical Specification					Conditions	
	SYMB.	Min.	Typ.	Max.	Unit		
Nominal frequency	fo	-	30.72	-	MHz		
Temp characteristics	fo_TC	-1.0	-	+1.0	$\times 10^{-6}$	Referenced to the mid point between minimum and maximum frequency value over the specified temperature range	
Load characteristics	fo_Load	-0.2	-	+0.2	$\times 10^{-6}$	10kohm+/-10%, 10 pF+/-10%	
Voltage characteristics	fo_Vcc	-0.1	-	+0.2	$\times 10^{-6}$	3.3V+/-5%	
Aging characteristics	fo_age	-1.0	-	+1.0	$\times 10^{-6}/Y$	at 25+/-2 deg.C	
Frequency tolerance	fo_tol	-1.5	-	+1.5	$\times 10^{-6}$	After 2 times reflow soldering	at 25+/-2 deg.C
Output voltage	Vpp	0.8	-	-	Vp-p	Clipped sine	
Current consumption	Icc	-	-	2.0	mA		
Harmonics	Hm	-	-	-8.0	dBc		
Control voltage stability	Vcon	-15.0	-	-9.0	$\times 10^{-6}$	Vcon=0.5V	ref: Vcon=1.5V
	Vcon	+9.0	-	+15.0	$\times 10^{-6}$	Vcon=2.5V	

