



Quartz Crystal "CX2016DB series"
KYOCERA Part Number : CX2016DB48000C0FRLC1

for Automotive
AEC-Q200 Certified

Note: This is a preliminary specification.

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

1.RATINGS				
Items	SYMB.	Rating	Unit	Rmarks
Operating Temperature Range	Topr	-40 to +105	°C	
Storage Temperature Range	Topr	-40 to +125	°C	

2.Electrical Characteristics							
Item	Electrical Specification					Test Conditions	Remarks
	SYMB.	Min.	Typ.	Max.	Unit		
Mode of Vibration		Fundamental					
Nominal Frequency F0	F0		48		MHz		
Nominal Temperature	T _{NOM}		+25		°C		
Load Capacitance	CL	7.0			pF		
Frequency Tolerance	df/F	-10.0		+10.0	PPM	+25±3° C	by Measurement Conditions
Frequency Temperature Characteristics	df/F	-20.0		+20.0		-40 to +105° C	Based on an oscillation frequency at +25 °C
Frequency Aging Rate		-1.0		+1.0		1 st year	+25±3°C
Equyvalent Series Resistance	ESR			30	Ω		by Measurement Conditions
Motional Caocitance	C1	-30%	2.9	+30%	fF		
Shunt Capacitance	C0	-30%	0.8	+30%	pF		
Motional Inductance	L1	-30%	3.8	+30%	mH		
Pull ability		-30%	-23.6	+30%	ppm/pF		
Drive Level	Pb	0.01		100	μW		
Insulation Resistance	IR	500			MΩ	100V(DC)	

3.Measurement Condition

Frequency measurement

Measuring instrument : IEC PI-Network Test Fixture

Load capacitance :7.0pF

Drive Level :10 μ W

Equivalent series resistance (ESR) measurement

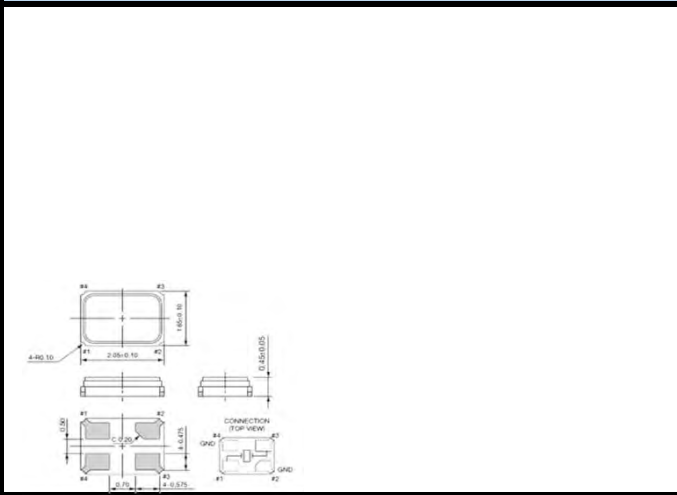
Measuring instrument : IEC PI-Network Test Fixture

Load capacitance :Series

Drive Level :10 μ W

4.Dimensions

(Unit:mm)



5.Recommended Land Pattern

(Unit:mm)

