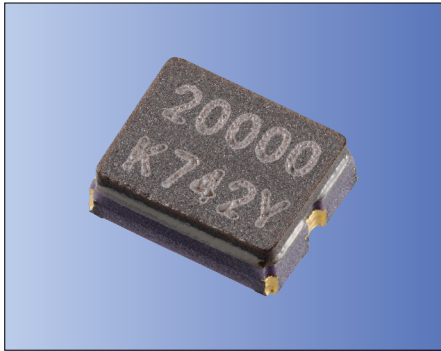




2.0×1.6mm for Automotive



**Features**

- Crystal unit for automotive electronics
- Ultra-miniature and low profile (2.0×1.6×0.715mm)
- Ceramic package
- Reflow compatible
- Durable, all-ceramic package, ideal for applications involving resin or epoxy over coating.
- Acceptable heat cycle solder junction for 3000 cycle (-40 to +125°C)

**Applications**

- ECU
- Automotive Camera
- Radar

**How to Order**

CX2016GR 20000 D0 G T V CC  
① ② ③ ④ ⑤ ⑥ ⑦

- ①Series
- ②Frequency
- ③Load Capacitance
- ④Frequency Tolerance
- ⑤Operating Temp. Range
- ⑥Frequency Temp. Stability
- ⑦Individual Specification (STD Specification is "CC")

③ D0 8 pF ④ G ±15×10<sup>-6</sup>

⑤ TV -40 to +150°C ⑥ ±150×10<sup>-6</sup>

**Specifications**

Item	Symbol	Specification	Units	Remarks
Frequency Range	f <sub>nom</sub>	16000 / 20000	kHz	Please contact us for other frequency range.
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	8	pF	Please contact us for other CL requirements.
Frequency Tolerance	f <sub>tol</sub>	±50	×10 <sup>-6</sup>	25°C±3°C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	Table 2	μW	
Operating Temp. Range	T <sub>use</sub>	-40 to +150	°C	
Storage Temp. Range	T <sub>stg</sub>	-40 to +150	°C	
Frequency Temp. Characteristics	f <sub>tem</sub>	±150	×10 <sup>-6</sup>	Freq. deviation from the value at 25°C

Please contact us for other specifications.

**Table 1 Motional Series Resistance**

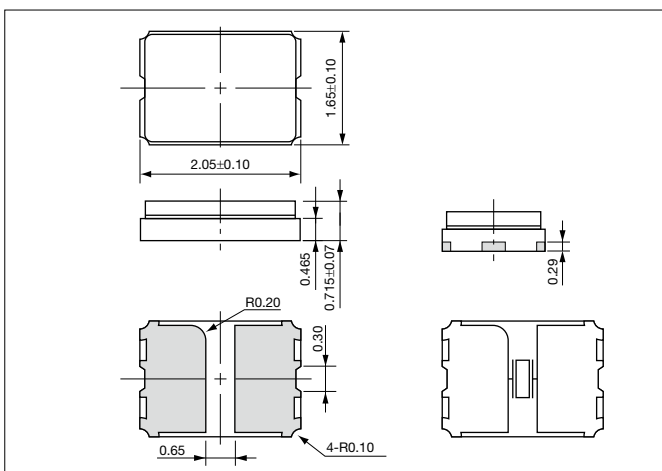
Frequency Range	Motional Series Resistance
16000kHz	300Ω max.
20000kHz	100Ω max.

**Table 2 Level of Drive**

Frequency Range	Level of Drive
16000, 20000kHz	10μW (200μW max.)

**Dimensions**

(Unit: mm)



**Recommended Land Pattern**

(Unit: mm)

