Crystal Units
Surface Mount Leaded Type CX49GFWB (CX-49G)

KYOCERA

for Consumer Products

Pb Free RoHS Compliant

Features

- Crystal unit for Consumer Products
- Metal package, leaded type
- A resistance weld hermetic sealed type
- Suitable for high density assembly and mass production

Applications

- Digital Electronics
- Consumer Products
- Car audio and accessories

How to Order

CX49GFWB 03579 □□ □ □ □ □□
① ② ③ ④ ⑤ ⑥ ⑦

① Series ② Frequency

③ Load Capacitance

H0	12 pF	Std.

④ Frequency Stability

P	±50×10⁻⁶	Std.

⑤ Operating Temp. Range ⑥ Frequency Temp. Stability

ES	–10 to +70°C	±50×10⁻⁶	Std.

⑦ Individual Specification... Std.Spec. as "ZZ"

Specifications

Item	Symbol	Specification		Units	Remarks
Frequency Range	f_nom	3200 to 33999	30 to 60 (MHz)	kHz	
Overtone Order	OT	Fundamental	3rd. Overtone	—	
Load Capacitance	CL	12		pF	
Frequency Stability	f_tol	±50		×10⁻⁶	@ 25°C
Motional Series Resistance	R1	Table 1		ohm	
Drive Level	DL	Table 2		μW	
Operating Temp. Range	T_use	–10 to +70		°C	
Storage Temp. Range	T_stg	–40 to +85		°C	
Frequency Temp. Characteristics	f_tem	±50		×10⁻⁶	ref.@ 25°C over operating temperature range

∗ Please contact us for other specifications.

Table1 Motional Series Resistance

Frequency Range	Motional Series Resistance	Units
3200 to 3499kHz	300 max.	ohm
3500 to 4099kHz	150 max.	
4100 to 4799kHz	120 max.	
4800 to 5999kHz	100 max.	
6000 to 11999kHz	90 max.	
12000 to 13499kHz	70 max.	
13500 to 33999kHz	50 max.	
30 to 60MHz	150 max.	

Table2 Level of Drive

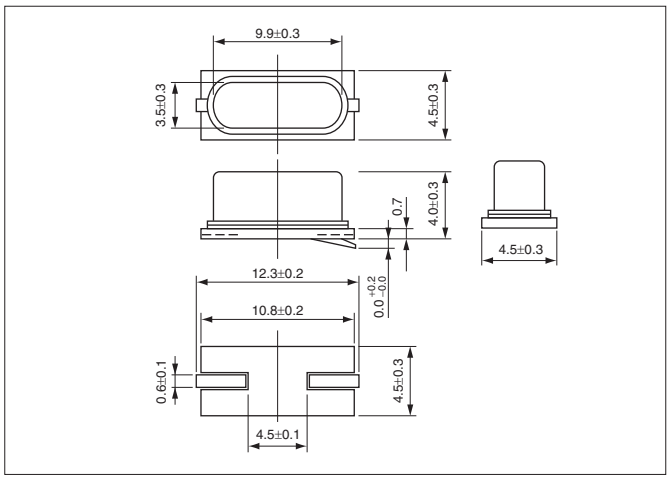
Frequency Range	Drive Level	Units
3200 to 15999kHz	10 (500 max.)	μW
16000 to 24999kHz	10 (300 max.)	
25000 to 33999kHz	10 (100 max.)	
30 to 60MHz	10 (300 max.)	

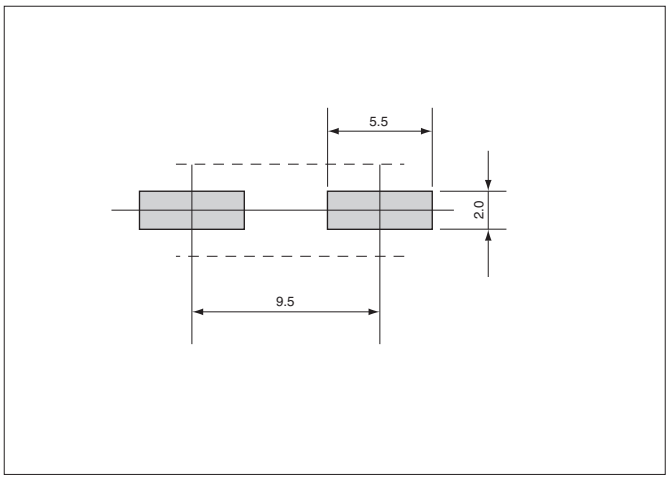
Typical Frequencies and Part Numbers

Frequency (kHz)	Standard Part Number
3200.000	CX49GFWB03200H0PESZZ
3579.545	CX49GFWB03579H0PESZZ
3686.400	CX49GFWB03686H0PESZZ
4000.000	CX49GFWB04000H0PESZZ
4194.304	CX49GFWB04194H0PESZZ
4332.000	CX49GFWB04332H0PESZZ
4433.619	CX49GFWB04433H0PESZZ
4500.000	CX49GFWB04500H0PESZZ
4915.200	CX49GFWB04915H0PESZZ
6000.000	CX49GFWB06000H0PESZZ
6144.000	CX49GFWB06144H0PESZZ
7200.000	CX49GFWB07200H0PESZZ
7372.800	CX49GFWB07372H0PESZZ
8000.000	CX49GFWB08000H0PESZZ
10000.000	CX49GFWB10000H0PESZZ
10738.635	CX49GFWB10738H0PESZZ
11000.000	CX49GFWB11000H0PESZZ
11059.200	CX49GFWB11059H0PESZZ
12000.000	CX49GFWB12000H0PESZZ
12288.000	CX49GFWB12288H0PESZZ
13500.000	CX49GFWB13500H0PESZZ
14318.180	CX49GFWB14318H0PESZZ
16000.000	CX49GFWB16000H0PESZZ
16934.400	CX49GFWB16934H0PESZZ
17280.000	CX49GFWB17280H0PESZZ
17734.476	CX49GFWB17734H0PESZZ
20000.000	CX49GFWB20000H0PESZZ
21477.270	CX49GFWB21477H0PESZZ
24000.000	CX49GFWB24000H0PESZZ
24576.000	CX49GFWB24576H0PESZZ
25000.000	CX49GFWB25000H0PESZZ
27000.000	CX49GFWB27000H0PESZZ

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)