



**Distributor of Citizen Finedevice: Excellent Integrated System Limited**

Datasheet of CFS-20632768DZFB - Crystal 32.7680kHz 20ppm 12.5pF 35 kOhm -20°C - 70°C Through Hole Cylindrical Can, Radial

Contact us: [sales@integrated-circuit.com](mailto:sales@integrated-circuit.com) Website: [www.integrated-circuit.com](http://www.integrated-circuit.com)

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## Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Citizen Finedevice](#)

[CFS-20632768DZFB](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)



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1-July-14

Citizen Finetech Miyota Co., Ltd.

Sales Department

Tel : +81-267-31-1111

**Dear Valued Customers,**

### **NOTIFICATION OF PART NUMBERING SYSTEM UNIFICATION**

Thank you very much for your continual support for our crystal devices.

We have been received numerous inquiries attributable to difference between our PART NUMBERING SYSTEM (Manufacturer's part number) which is to be referred to for your ordering and description on our bar-code label.

To solve the problem, our PART NUMBERING SYSTEM will be unified as follows.  
Your understanding and cooperation on this matter would be highly appreciated.

e.g.

CFS20632.768KDZF-UB (Before) / CFS-20632768DZFB (After)  
HCM49-24.000MABJ-UT (Before) / HCM4924000000ABJT (After)

\*Both parts are the same in specification.

Model to be affected : All models in mass-production as of July 2014  
Changed contents : Refer to attached document or PART NUMBERING SYSTEM on our website  
URL : [http://cfm.citizen.co.jp/english/product/cvo\\_pns0.html](http://cfm.citizen.co.jp/english/product/cvo_pns0.html)  
Effective date of change : Sequential application from shipment in October 2014

\*There is no change in product feature or quality.

Should you have any questions related to this matter, please don't hesitate to contact our representatives, or send your inquiry through our website below.

URL : [https://form.citizen.co.jp/cfm\\_e/inquiry/index.php](https://form.citizen.co.jp/cfm_e/inquiry/index.php)

Sincerely,

**Change : Below CITIZEN P/N (red color) in bar-code label**

Customer P/N (3N) 1 : CM315D32768DZFT 3000

**RoHS**



Lot No (1T) : 23861



**CITIZEN P/N (1P) : CM315D32768DZFT**



Ctl No (2P) : JL3700-08D

QTY (Q) : 3000



D/C (9D) : 1214



C/T (4T) : CN



**CITIZEN CM315D**

**EIAJ C-3**

• Example Part Number

**CM315D**

**Model**

CFS-206  
 CFS-145  
 CFY-206  
 CMR200T  
 CMJ206T  
 CM200C  
 CM250C  
 CM519  
 CM415  
 CM315D  
 CM130

**32 768**

**Frequency**

Please mention numeral of the frequency in Hz unit.

**Frequency deviation (at 25°C)**

Standard specification shall differ subject to frequency.

A +/-30ppm (STD)  
 B +/-50ppm  
 C +/-100ppm  
 D +/-20ppm (STD) 32.768KHz  
 E +/-10ppm  
 F +/-15ppm  
 G +/-25ppm  
 H +/-5ppm  
 Z others

**D Z F T**

**Package specification**

T Tape and Reel (Standard package unit)  
 B Bulk (Without taping/ Bulk Package)

**Load capacitance (CL)**

A Series	G 13.0pF
B 6.0pF	Q 10.0pF
C 9.0pF (STD)	S 11.0pF
D 9.5pF	V 8.0pF
E 12.0pF	Y 7.0pF
F 12.5pF (STD)	Z others

**Frequency-temperature characteristic (at operating temperature range)**

Z Standard spec only

**CTZ management code**

It is a number to be assigned by CTZ after inquiry from a customer.

**- XXX**

## • Example Part Number

**CS325S 20 000 000 A A J T - XXX**
**Model**
**HC-49/U-S  
HCM49  
CM309S  
CS325S**
**Frequency**

Please mention numeral of the frequency in Hz unit.

**Frequency deviation (at 25°C)**

Standard specification shall differ subject to frequency.

<b>A</b>	+/-30ppm (STD)
<b>B</b>	+/-50ppm (STD)
<b>C</b>	+/-100ppm
<b>D</b>	+/-20ppm
<b>E</b>	+/-10ppm
<b>F</b>	+/-15ppm
<b>G</b>	+/-25ppm
<b>H</b>	+/-5ppm
<b>Z</b>	others

**CTZ management code**

It is a number to be assigned by CTZ after inquiry from a customer.

**Package specification**

<b>T</b>	Tape and Reel (Standard package unit)
<b>B</b>	Bulk (Without taping/ Bulk Package)

**Load capacitance (CL)**

<b>A</b>	Series	<b>I</b>	16.0pF	<b>Q</b>	10.0pF
<b>B</b>	6.0pF	<b>J</b>	18.0pF	<b>R</b>	50.0pF
<b>C</b>	9.0pF	<b>K</b>	20.0pF	<b>S</b>	11.0pF
<b>D</b>	9.5pF	<b>L</b>	22.0pF	<b>T</b>	14.0pF
<b>E</b>	12.0pF	<b>M</b>	25.0pF	<b>U</b>	17.0pF
<b>F</b>	12.5pF	<b>N</b>	30.0pF	<b>V</b>	8.0pF
<b>G</b>	13.0pF	<b>O</b>	32.0pF	<b>Y</b>	7.0pF
<b>H</b>	15.0pF	<b>P</b>	33.0pF	<b>Z</b>	others

**Frequency-temperature characteristic (at operating temperature range)**

<b>A</b>	+/-30ppm (-10 ~ +60°C) (STD)	<b>M</b>	+/-60ppm (-40 ~ +85°C)
<b>B</b>	+/-50ppm (-10 ~ +60°C) (STD)	<b>N</b>	+/-80ppm (-40 ~ +85°C)
<b>C</b>	+/-100ppm (-10 ~ +60°C)	<b>O</b>	+/-30ppm (-20 ~ +70°C)
<b>D</b>	+/-20ppm (-10 ~ +60°C)	<b>P</b>	+/-40ppm (-20 ~ +70°C)
<b>E</b>	+/-10ppm (-10 ~ +60°C)	<b>Q</b>	+/-50ppm (-20 ~ +70°C)
<b>F</b>	+/-30ppm (-40 ~ +85°C)	<b>R</b>	+/-60ppm (-20 ~ +70°C)
<b>G</b>	+/-50ppm (-40 ~ +85°C)	<b>S</b>	+/-70ppm (-20 ~ +70°C)
<b>H</b>	+/-100ppm (-40 ~ +85°C)	<b>T</b>	+/-80ppm (-20 ~ +70°C)
<b>I</b>	+/-20ppm (-40 ~ +85°C)	<b>U</b>	+/-80ppm (-40 ~ +100°C)
<b>J</b>	+/-10ppm (-40 ~ +85°C)	<b>V</b>	+/-100ppm (-40 ~ +100°C)
<b>K</b>	+/-150ppm (-40 ~ +85°C)	<b>W</b>	+/-150ppm (-40 ~ +100°C)
<b>L</b>	+/-200ppm (-40 ~ +85°C)	<b>X</b>	+/-200ppm (-40 ~ +100°C)
		<b>Z</b>	others

\*Shall not be available subject to the frequency.

• Example Part Number

**CSX-750 FC C 20 000 000 T - XXX**

**Series**

CSX-750P  
CSX-750F

**CTZ management code**

It is a number to be assigned by CTZ after inquiry from a customer.

**Package specification**

- T Tape and Reel (Standard package unit)
- B Bulk (Without taping/ Bulk Package)

**Frequency**

Please mention numeral of the frequency in Hz unit.

**Frequency-temperature characteristic (at operating temperature range)**

- B** +/-50ppm (-10 ~ +70°C)  
+/-50ppm (-20 ~ +70°C) (CSX-750)
- C** +/-100ppm (-10 ~ +70°C) (STD)  
+/-100ppm (-20 ~ +70°C) (CSX-750) (STD)
- E** +/-50ppm (-40 ~ +85°C)
- F** +/-100ppm (-40 ~ +85°C)
- Z** others

\*Characteristic features vary from frequency so please contact us.

**Model**

As for selection of models, please chose specific model by referring each detail specification of each series mentioned in this catalogue.

• Example Part Number

**CSX-750 VJ B 20 000 000 T - X X X**

**Series**

CSX-750V

**CTZ management code**

It is a number to be assigned by CTZ after inquiry from a customer.

**Package specification**

- T Tape and Reel (Standard package unit)
- B Bulk (Without taping/ Bulk Package)

**Frequency**

Please mention numeral of the frequency in Hz unit.

**Frequency-temperature characteristic (at operating temperature range)**

- B +/-50ppm (-20 ~ +70°C) (STD)
- C +/-100ppm (-20 ~ +70°C)
- E +/-50ppm (-40 ~ +85°C)
- F +/-100ppm (-40 ~ +85°C)
- Z others

\*Characteristic features vary from frequency so please contact us.

**Model**

As for selection of models, please chose specific model by referring each detail specification of each series mentioned in this catalogue.