# **FC1610AN**

### **SEIKO EPSON CORPORATION**

Product name

FC1610AN 32.768000 kHz 7.0 +10.0-10.0 X1A0001210014xx

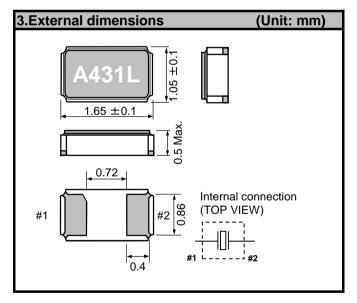
Product Number / Ordering code

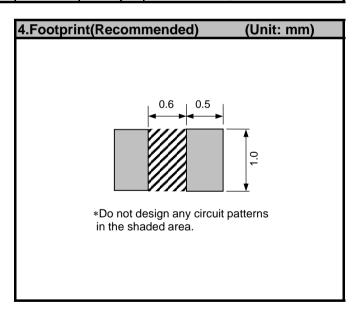
Please refer to the 5.Packing information about xx (last 2 digits)

Complies with EU RoHS directive Reference weight Typ. 3 mg

1.Absolute maximum ratings								
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks		
Storage temperature	T_stg	-55	-	125	°C	Storage as single product		
Maximum drive level	GL	-	-	0.5	μW			

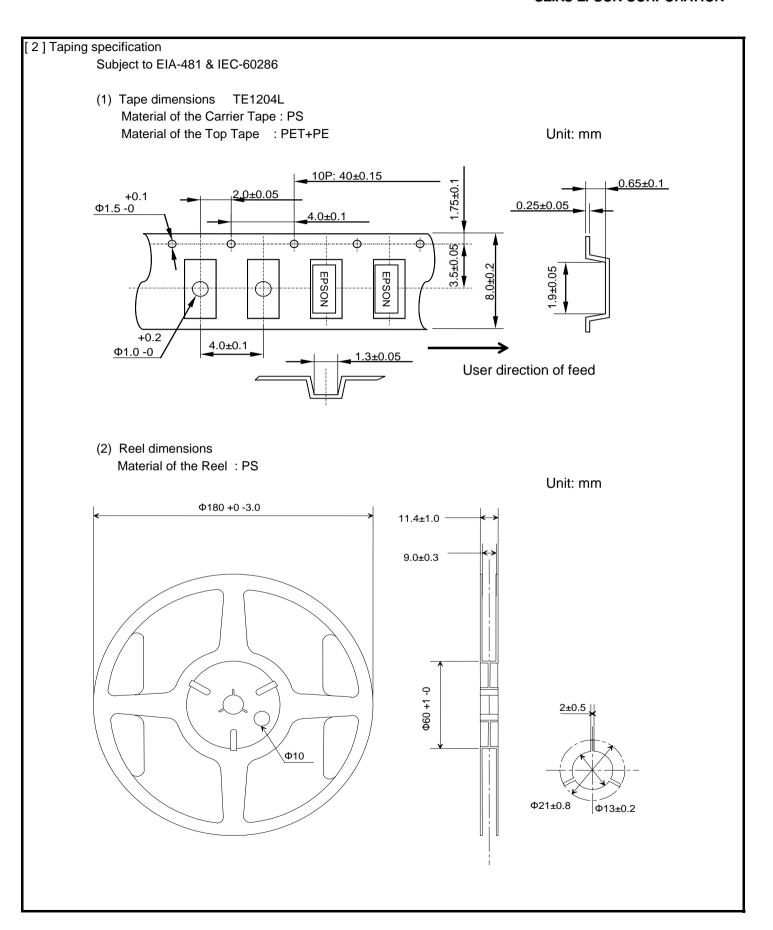
2.Specificatoins(characteristics)						
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom	-	32.768	-	kHz	
Operating temperature	T_use	-40	-	85	۰C	
Level of drive	DL	_	0.1	0.5	μW	
Frequency tolerance	f_tol	-10	-	10	x 10 <sup>-6</sup>	+25°C DL=0.1μW
Turnover temperature	Ti	20	25	30	۰C	
Parabolic coefficient	В	-	-	-0.04	x 10 <sup>-6</sup> /°C <sup>2</sup>	
Load capacitance	CL	0.0	7.0	-	pF	
Motional resistance (ESR)	R1	-	-	90	kΩ	
Motional capacitance	C1	-	6	-	fF	
Shunt capacitance	C0	-	1.2	-	pF	
Motional inductance	L1	-	4	-	kH	
Frequency aging	f_age	-3	-	3	x10 <sup>-6</sup> /yea	@+25°C, First year

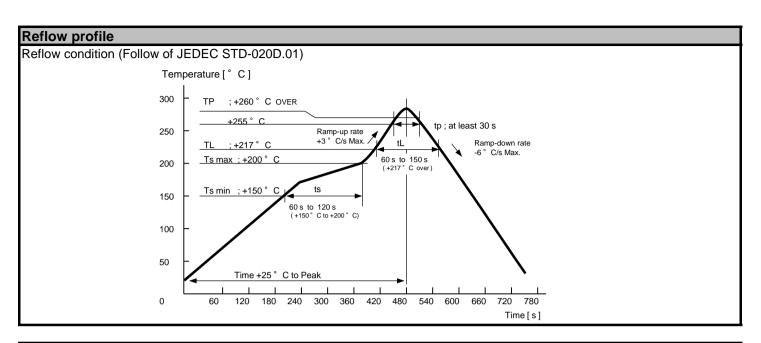




5.Packing	informati	on		
[ 1 ]Product	number las	t 2 digits code (xx) description		The recommended code is "00"
	X1A00012	210014xx		
	Code	Condition	Code	Condition
	01	Any Q'ty vinyl bag(Tape cut)	16	3000pcs / Reel
	11	Any Q'ty / Reel	00	5000pcs / Reel
	12	250pcs / Reel		
	14	1000pcs / Reel		

### **SEIKO EPSON CORPORATION**





#### **Notice**

- · This material is subject to change without notice.
- Any part of this material may not be reproduced or duplicated in any form or any means without the written permission of Seiko Epson.
- The information about applied data, circuitry, software, usage, etc. written in this material is intended for reference only.
  - Seiko Epson does not assume any liability for the occurrence of customer damage or infringing on any patent or copyright of a third party.
  - This material does not authorize the licensing for any patent or intellectual copyrights.
- When exporting the products or technology described in this material, you should comply with the applicable export control laws and regulations and follow the procedures required by such laws and regulations.
- You are requested not to use the products (and any technical information furnished, if any) for the development and/or manufacture of weapon of mass destruction or for other military purposes. You are also requested that you
  - would not make the products available to any third party who may use the products for such prohibited purposes.
- These products are intended for general use in electronic equipment. When using them in specific applications that require
  - extremely high reliability, such as the applications stated below, you must obtain permission from Seiko Epson in advance.
  - / Space equipment (artificial satellites, rockets, etc.)
  - / Transportation vehicles and related (automobiles, aircraft, trains, vessels, etc.)
  - / Medical instruments to sustain life
  - / Submarine transmitters
  - / Power stations and related
  - / Fire work equipment and security equipment
  - / Traffic control equipment
  - / And others requiring equivalent reliability.
- $\cdot \quad \text{All brands or product names mentioned herein are trademarks and/or registered trademarks of their respective}.$

## Contact us

www5.epsondevice.com/en/contact/