MHz Range Crystal unit FA-20H

SEIKO EPSON CORPORATION

Product nameFA-20H16.000000 MHz 12.0 +10.0-10.0Product Number / Ordering codeQ24FA20H00232xx

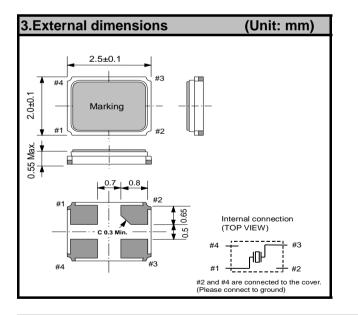
Please refer to the 5.Packing information about xx (last 2 digits)

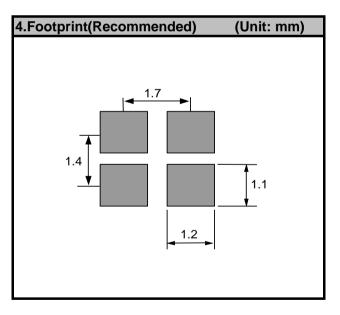
Pb free / Complies with EU RoHS directive

Reference weight Typ. 11 mg

1.Absolute maximum ratings								
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks		
Storage temperature	T_stg	-40	-	+125	°C	Storage as single product		
Operating temperature	T_use	-40	-	+105	°C			

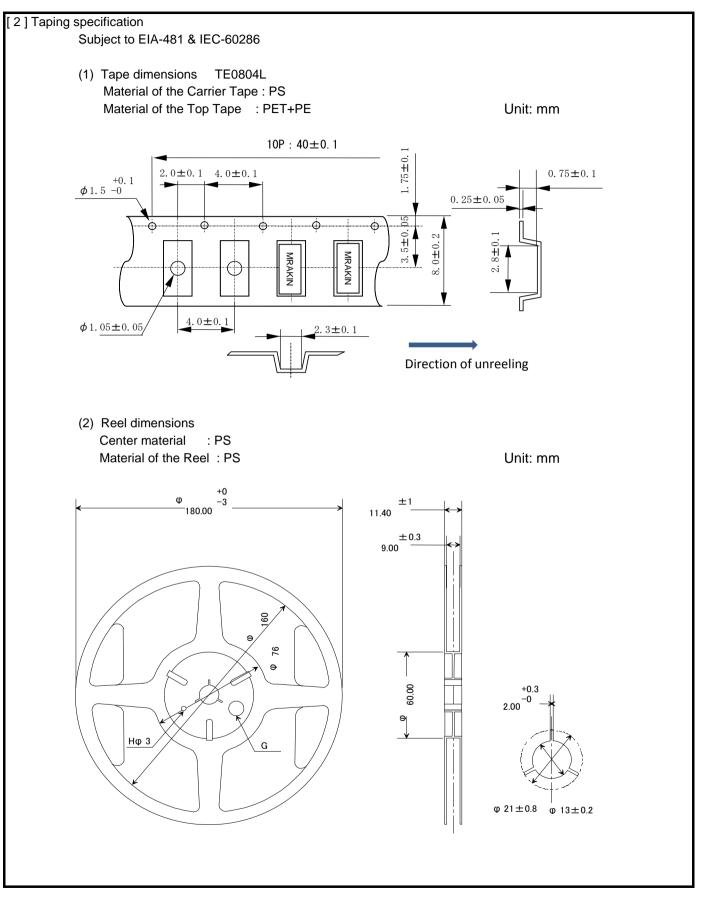
2.Specifications(characteristics)						
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom	_	16.000000	-	MHz	Fundamental
Frequency tolerance	f_tol	-10	-	+10	x 10- ⁶	@+25°C
Frequency Stability over temperature	f_tem	-20	-	+20	x 10 ⁻⁶	-40°C to +85°C
Operating temperature	T_use	-40	-	+85	°C	
Level of drive	DL	10	-	100	μW	
Load capacitance	CL	_	12		pF	
Motional resistance (ESR)	R1	-	-	80	Ω	
Motional capacitance	C1	-	1.88	-	fF	
Motional inductance	L1	-	52.65	-	mH	
Shunt capacitance	C0	-	0.84	-	pF	
Frequency aging	f_age	-1	—	+1	x10 ⁻⁶ /yea	@+25°C, First year

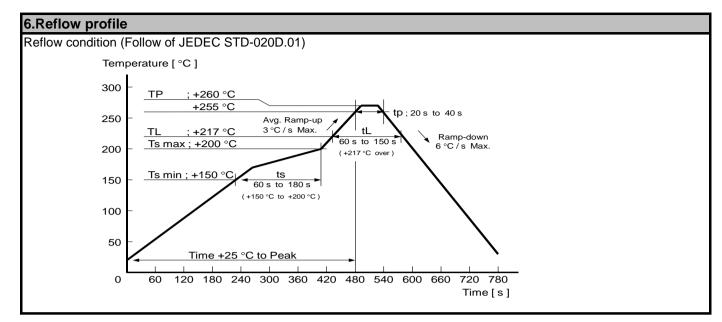




5.Packing information

[1]Product number last 2 digits code (xx) description		The recommended code is "18"			
	Q24FA20	H00232xx			
	Code	Condition	Code	Condition	
	01	Any Q'ty vinyl bag(Tape cut)	00	3000pcs / Reel	
	11	Any Q'ty / Reel	18	5000pcs / Reel	
	12	250pcs / Reel			
	14	1000pcs / Reel			





7.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.

· All brands or product names mentioned herein are trademarks and/or registered trademarks of their respective.

Contact us

http://www5.epsondevice.com/en/contact/