## MHz Range Crystal unit FA-128

Product name FA-128 25.000000 MHz 12.5 +30.0-30.0 Product Number / Ordering code Q22FA12800105xx

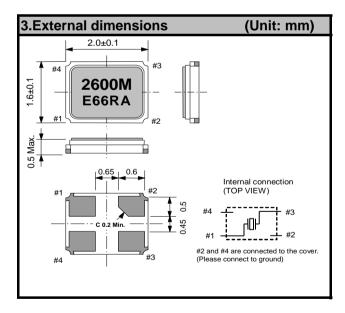
Please refer to the 5.Packing information about xx (last 2 digits)

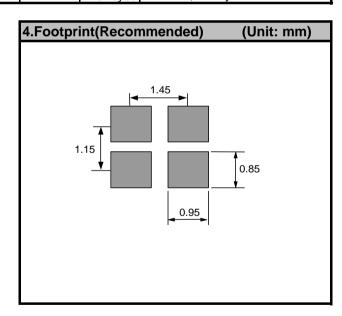
Pb free / Complies with EU RoHS directive

Reference weight Typ. 7 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	_	25.000000	-	MHz	Fundamental	
Frequency tolerance	f_tol	-30	-	+30	x 10- <sup>6</sup>	@+25°C	
Frequency Stability over temperature	f_tem	-30	1	+30	x 10 <sup>-6</sup>	-20°C to +75°C	
Operating temperature	T_use	-20	-	+75	۰C		
Level of drive	DL	10	-	100	μW		
Load capacitance	CL	_	12.5	_	pF		
Motional resistance (ESR)	R1	-	-	80	Ω		
Motional capacitance	C1	-	1.94	-	fF		
Motional inductance	L1	-	20.91	-	mH		
Shunt capacitance	C0	-	0.60	-	pF		
Frequency aging	f_age	-5	_	+5	x10 <sup>-6</sup> /yea	@+25°C, First year	





5.Packing	informat	ion		
[ 1 ]Product number last 2 digits code (xx) description		The recommended code is "18"		
	Q22FA12	2800105xx		
	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		

## SEIKO EPSON CORPORATION





## 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/