MHz Range Crystal unit FA-128

SEIKO EPSON CORPORATION

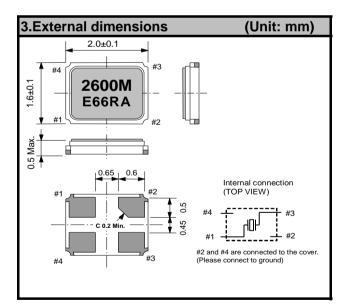
Product nameFA-12844.000000 MHz 12.0 +10.0-10.0Product Number / Ordering codeQ22FA12800061xx

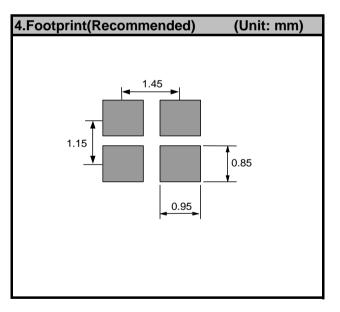
Please refer to the 5.Packing information about xx (last 2 digits)

Pb free / Complies with EU RoHS directive

| 1.Absolute maximum ratings | 5 | | | | | |
|----------------------------|--------|------|------|------|------|---------------------------|
| 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 | |

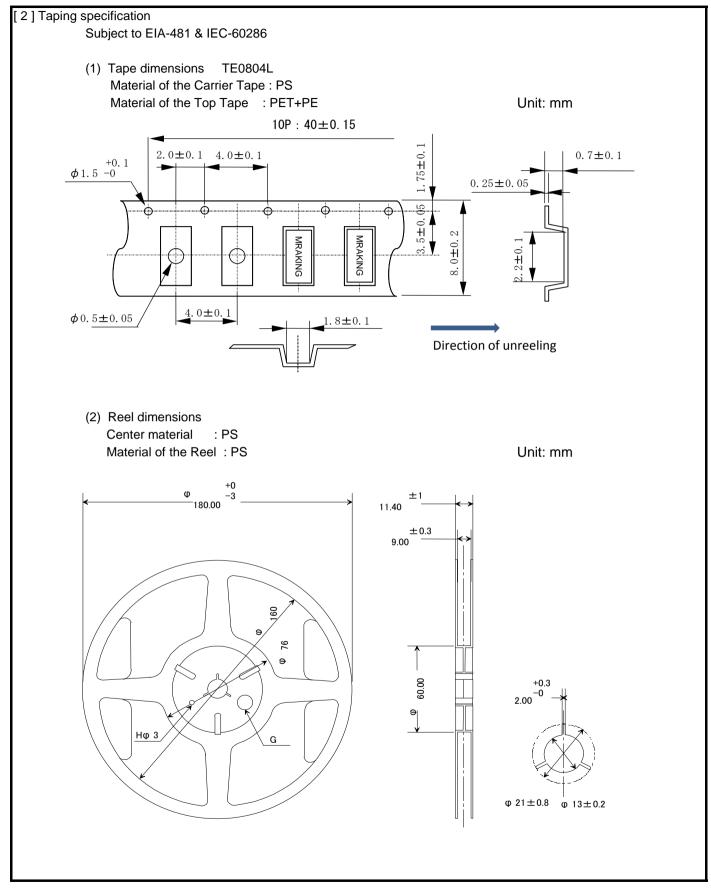
| 2.Specifications(characteris | ecifications(characteristics) | | | | | |
|---|-------------------------------|------|-----------|------|------------------------|----------------------|
| Parameter | Symbol | Min. | Тур. | Max. | Unit | Conditions / Remarks |
| Nominal frequency | f_nom | — | 44.000000 | _ | MHz | Fundamental |
| Frequency tolerance | f_tol | -10 | - | +10 | x 10- ⁶ | @+25°C |
| Frequency Stability over temperature | f_tem | -10 | - | +10 | x 10⁻ ⁶ | -20ºC to +75ºC |
| Operating temperature | T_use | -20 | - | +75 | °C | |
| Level of drive | DL | 10 | - | 100 | μW | |
| Load capacitance | CL | — | 12 | _ | pF | |
| Motional resistance (ESR) | R1 | - | - | 60 | Ω | |
| Motional capacitance | C1 | - | 3.24 | - | fF | |
| Motional inductance | L1 | - | 4.04 | - | mH | |
| Shunt capacitance | C0 | - | 0.83 | - | pF | |
| Frequency aging | f_age | -1 | _ | +1 | x10 ⁻⁶ /yea | @+25°C, First year |



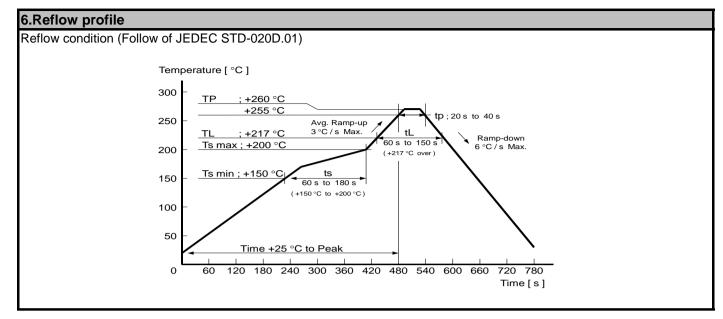


| 5.Packing | informati | ion | | |
|------------|--|------------------------------|------|------------------------------|
| [1]Product | Product number last 2 digits code (xx) description | | | The recommended code is "18" |
| | Q22FA12 | 800061xx | | |
| | Code | Condition | Code | Condition |
| | 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



SEIKO EPSON CORPORATION



| • | 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. |

Contact us

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