



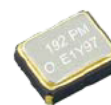
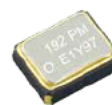
MHz RANGE CRYSTAL UNIT

Built-in thermistor

Product Number
FA-20HS: X1E000291xxxx16

FA-20HS

- Nominal frequency range : 19.2 , 26.0 MHz
- External dimensions : 2.5× 2.0×1.0 mm
- Overtone order : Fundamental
- Applications : Mobile phone, Bluetooth, W-LAN
ISM band radio, Clock for MPU
GPS, Smart phone



Specifications (characteristics)

Item	Symbol	Specifications	Conditions / Remarks
Nominal frequency range	f_nom	19.2 , 26.0 MHz	Fundamental Please contact us about available frequencies.
Storage temperature range	T_stg	-40 °C to +125 °C	Storage as single product.
Operating temperature range	T_use	-40 °C to +85 °C	
Level of drive	DL	100 μW Max.	Recommended: 1 μW to 100 μW
Frequency tolerance	f_tol	$\pm 10 \times 10^{-6}$ *1	Please contact us about reference temperature. Please contact us for inquiries.
Frequency versus temperature characteristics	f_tem	$\pm 12 \times 10^{-6}$ *1	-30 °C to +85 °C Please contact us for inquiries.
Load capacitance	CL	6 pF to ∞	Please specify.
Motional resistance (ESR)	R1	As per table below	-30 °C to +85 °C
Frequency aging	f_age	$\pm 1 \times 10^{-6}$ to $\pm 3 \times 10^{-6}$ / year Max. *1	+25 °C, First year
Thermistor resistance	—	Please contact us about specifications.	
Thermistor B constant	—		

*1 Please contact us for available frequency tolerances as they are dependent upon the nominal frequency.

Motional resistance (ESR)

Frequency	Motional resistance
19.2 MHz	80 Ω Max.
26.0 MHz	60 Ω Max.

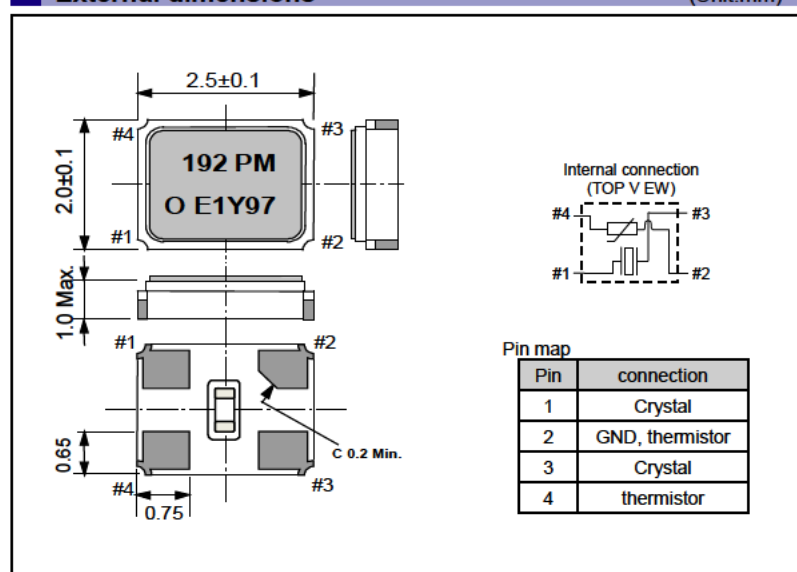
Product name FA-20HS 19.200000MHz 7.0 +10.0-10.0
(Standard form) ① ② ③ ④

①Model ②Frequency ③Load capacitance(pF) ④Frequency tolerance($\times 10^{-6}$, +25 °C)

In addition to the above mentioned specification item, please specify frequency temperature characteristics and operating temperature range in case of inquiry.

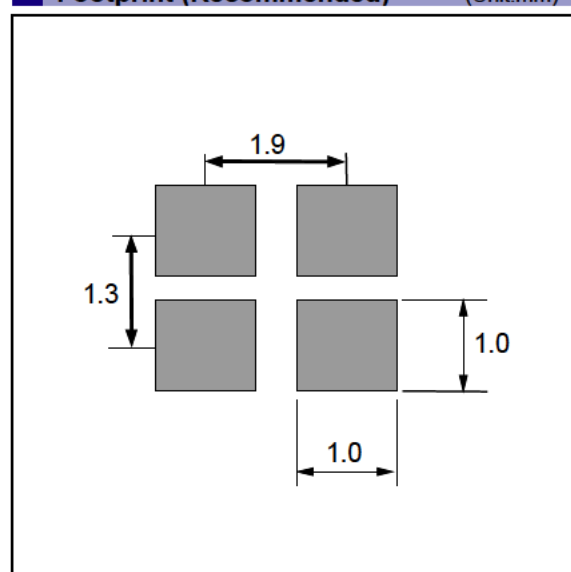
External dimensions

(Unit:mm)



Footprint (Recommended)

(Unit:mm)



Mouser Electronics

Authorized Distributor

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[FA-20HS 19.2000MF12Y-AG0](#) [FA-20HS 19.2000MF12Y-AG3 GPS](#) [FA-20HS 19.2000MF12Y-AGX](#) [FA-20HS 19.2000MF12Y-AGX GPS](#) [FA-20HS 19.2000MF30G-AG0](#) [FA-20HS 19.2000MF30G-AGX](#) [FA-20HS 19.20M-70AAYYH70RE0](#) [FA-20HS 19.20M-70AAYYH70RE3](#) [FA-20HS 38.4000MF12CC-AG0](#)