

MHz RANGE CRYSTAL UNIT

ULTRA MINIATURE SIZE LOW PROFILE SMD

FA-20H

- Nominal frequency range : 12 MHz to 48 MHz
- External dimensions : 2.5× 2.0×0.55 t (mm)
- Overtone order : Fundamental
- Applications : Mobile phone, Bluetooth, W-LAN
ISM band radio, Clock for MPU



Product Number (please contact us)
Q24FA20H0xxxx00



Actual size



Specifications (characteristics)

Item	Symbol	Specifications		Remarks
		For RF Reference	For Clock	
Nominal frequency range	f_nom	12.000 MHz to 48.000 MHz		Fundamental Please contact us for inquiries regarding the available frequencies.
Storage temperature range	T_stg	-40 °C to +125 °C		Store as bare product after unpacking.
Operating temperature range	T_use	-40 °C to +85 °C		
Level of drive	DL	100 μW Max.	200 μW Max.	Recommended: 1 μW to 100 μW
Frequency tolerance	f_tol	$\pm 10 \times 10^{-6}$ to $\pm 30 \times 10^{-6}$ *1	$\pm 30 \times 10^{-6}$	+25 °C Please contact us for inquiries.
Frequency versus temperature characteristics	f_tem	$\pm 10 \times 10^{-6}$ to $\pm 30 \times 10^{-6}$ *1	$\pm 30 \times 10^{-6}$	-20 °C to +75 °C Please contact us for inquiries.
Load capacitance	CL	6 pF to ∞		Please specify.
Motional resistance (ESR)	R1	As per below table		-20 °C to +75 °C
Frequency aging	f_age	$\pm 1 \times 10^{-6}$ to $\pm 3 \times 10^{-6}$ / year Max. *1		+25 °C, First year

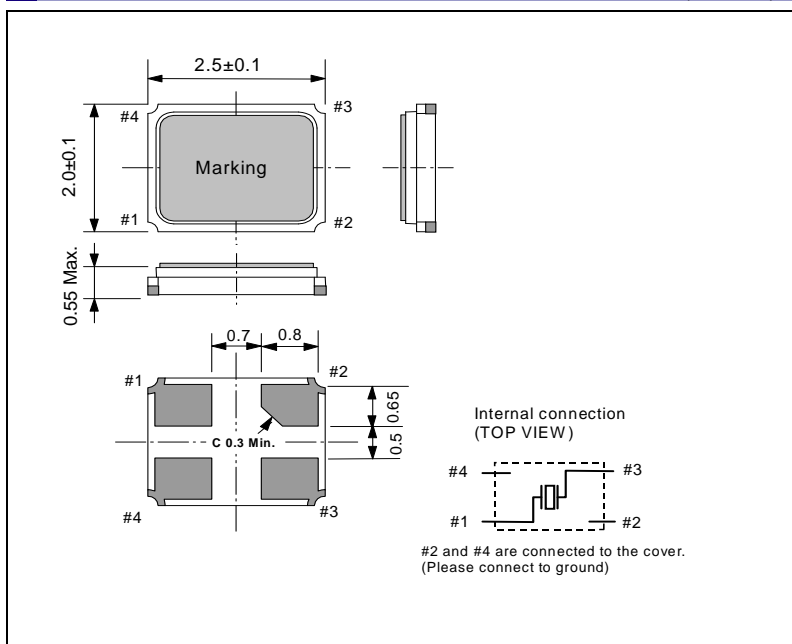
*1 Please contact us for inquiries regarding available frequency tolerance.

Motional resistance (ESR)

Frequency	Motional resistance
12.0 MHz ≤ f_nom < 16.0 MHz	150 Ω Max.
16.0 MHz ≤ f_nom ≤ 25.0 MHz	80 Ω Max.
25.0 MHz < f_nom ≤ 30.0 MHz	60 Ω Max.
30.0 MHz < f_nom ≤ 35.0 MHz	50 Ω Max.
35.0 MHz < f_nom ≤ 48.0 MHz	40 Ω Max.

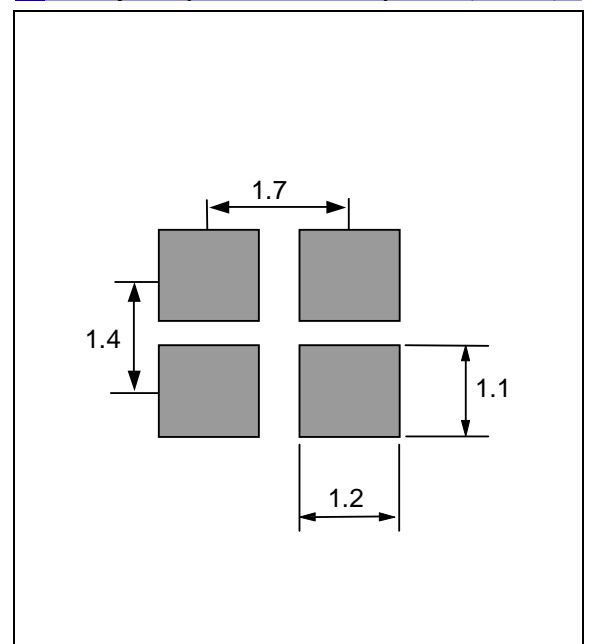
External dimensions

(Unit:mm)



Footprint (Recommended)

(Unit:mm)



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [epson manufacturer](#):

Other Similar products are found below :

[MA-505 24.0000M-C3 ROHS](#) [MC-405 32.7680K-G3: ROHS](#) [FA-128 25.0000MF10Z-AC](#) [S5U13L02P00C100](#) [S5U13U11P00C100](#)
[SG5032CAN 10.000000M-TJGA3](#) [SG5032VAN 200.000000M-KEGA3](#) [SG-210STF 2.0480ML3](#) [SG-531P 7.3728MC:ROHS](#)
[X1G0044810005 SG7050CAN 10 MHZ](#) [S5U1C31W74T1300](#) [S5U1C17W04T2100](#) [IC Socket for 7050 case](#) [SG-210STF 40.0000ML](#) [TSX-3225 26.0000MF10Z-B6](#) [S5U13513P00C100](#) [SG-210STF 13.5600ML3](#) [SG5032CCN 16.000000M-HJGA3](#) [Q3851CA000055 XG-1000CA 50 MHZ](#) [EG-2121CA 644.53125MLGPA](#) [M160](#) [MA-506 4.0000M-C3 ROHS](#) [EG-2121CA2000000M-LGPAL3](#) [S5U13U00P00C100](#) [FA-118T 52.0000ME12Z-AC3](#) [SG-Writer-II](#) [S5U1C17001H3100](#) [S5U13513R00C100](#) [IC Socket for 5032 case](#) [SG-210STF 4.0960ML](#)
[S5U13517P00C200](#) [S5U13748P00C100](#) [S5U1C17W18T2100](#) [SG-310SCF 20.0000MM](#) [S5U13781R01C100](#) [Q336150110002 SG-615P 20 MHZ C](#) [MA-506 25.0000M-C3:ROHS](#) [S5U1C17M13T2100](#) [S5U1C17M13T1100](#) [TG-3541CE 32.7680KXB3](#) [FA-238 25.0000MB50X-C3](#) [RX-8803LC:UB3 PURE SN](#) [SG-3030LC 32.7680KB3, PURE SN](#) [SG-615P 8.0000MC3: ROHS](#) [Q3102JF010001 SG-3030JF 32.768KHZ B](#) [M150](#) [S5U1C17W15T2100](#) [FC-135 32.7680KA-K0](#) [XG-2121CA 156.2500M-PGSNB](#) [FA-128 25.0000MF20X-WX](#)