MHz RANGE CRYSTAL UNIT LOW PROFILE SMD

FA-365

•Frequency range : 12 MHz,14 MHz to 41 MHz

•Thickness : 1.4 mm Max. •Overtone order : Fundamental

•Applications : For Clock of integrated circuit

•Lead(Pb)-free : Contains Pb in sealing glass exempted by

RoHS directive.



Actual size



Specifications (characteristics)

Item		Symbol	Specifications	Remarks
Nominal frequency range		f	12.000 MHz, 14.000 MHz to 41.000 MHz	Fundamental
-	Storage temperature	T_stg	-55 °C to +125 °C	Stored as bare product after unpacking
	Operating temperature	T_use	-20 °C to +70 °C	Please contact us on availability of -40 °C to +85 °C
Level of drive		DL	10 μW to 100 μW	
Frequency tolerance (standard)		f_tol	±50 × 10 ⁻⁶ , ±100 × 10 ⁻⁶	+25 °C
Frequency versus temperature characteristics (standard)			±30 × 10 ⁻⁶	-20 °C to +70 °C For the out of standard specifications, please contact us for inquires
Load capacitance		CL	10 pF to ∞	Please specify
Motional resistance (ESR)		R1	As per below table	-20 °C to +70 °C, DL=100 μW
Frequency aging		f_age	$\pm 5 imes 10^{-6}$ / year Max.	+25 °C, First year

Motional resistance (ESR)

Frequency	Motional resistance	
12.0 MHz	60 Ω Max.	
14.0 MHz ≤ f ≤ 41.0 MHz	50 Ω Max.	

External dimensions

(Unit:mm)

#1 20.000 E 1ZR01 *** 6.0 ±0.2 #1 | *** Internal connection #2 #1 | *** #2 | *** #2 | *** #2 | *** #3 | *** #4 | *** #4 | *** #5 | ** #6 | ** #7 | ** #8 | ** #9 | ** #1 | ** #1 | ** #2 | ** #1 | ** #2 | ** #2 | ** #3 | ** #4 | ** #4 | ** #5 | ** #6 | ** #7 | ** #8 | ** #9 | ** #1 | ** #1 | ** #2 | ** #1 | ** #2 | ** #3 | ** #4 | ** #4 | ** #5 | ** #6 | ** #7 | ** #8 | ** #9 | ** #1 | ** #1 | ** #2 | ** #1 | ** #2 | ** #2 | ** #3 | ** #4 | ** #4 | ** #5 | ** #6 | ** #7 | ** #7 | ** #8 | ** #8 | ** #9 | ** #1 | ** #1 | ** #2 | ** #1 | ** #2 | ** #2 | ** #3 | ** #4 | ** #4 | ** #5 | ** #6 | ** #7 | ** #7 | ** #8 | ** #8 | ** #9 | ** #1 | ** #1 | ** #2 | ** #2 | ** #3 | ** #4 | ** #4 | ** #5 | ** #6 | ** #7 | ** #7 | ** #8 | ** #8 | ** #8 | ** #9 | ** #1 | ** #1 | ** #2 | ** #2 | ** #3 | ** #4 | ** #4 | ** #5 | ** #6 | ** #7 | ** #6 | ** #7 | ** #7 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | ** #8 | **

Footprint (Recommended)

Only the pattern which connects with land A is allowed in area 1 Only the pattern which connects with land B is allowed in area 2 No pattern is allowed in area 3 .