

# Quartz Crystal Units

6Z Series Cylinder Crystal Units

3MHz~50MHz

Size: 2×6 / 3×8 / 3×9 mm



## Features

- Small size
- High shock tolerance
- Reliable frequency stability
- Low power consuming
- Frequency range from 3MHz up to 50MHz
- Application for PC and peripherals, Instrumentation, Microprocessor systems, Automotive electronics, etc.
- RoHS Compliant / Pb Free



## Standard Specifications

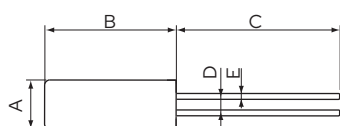
Item	Type	6Z Series Cylinder Crystal Units	
Size		3×9 / 3×10	2×6 / 3×8
Frequency Range		3~4MHz	4~50MHz
Load Capacitance		12pF, 16pF, 20pF, or specify	
Drive Level		100μW typical	
Frequency Tolerance		±10ppm, ±20ppm, ±30ppm, or specify (at 25°C)	
Frequency Characteristics Over Temperature		±10ppm, ±20ppm, ±30ppm, or specify	
Operating Temperature Range		-20~+70°C, -40~+85°C, or specify	
Storage Temperature Range		-55~+125°C	

## Equivalent Series Resistance (ESR)

Fundamental		Fundamental		3rd Overtone	
3.579~4MHz	180Ω max.	10~12MHz	60Ω max.	30~50MHz	80Ω max.
4~4.5MHz	150Ω max.	12~30MHz	40Ω max.		
4.5~5MHz	120Ω max.				
5~7MHz	100Ω max.				
7~10MHz	80Ω max.				

[mm]

## Dimensions



Size	A	B	C	D	E	F
2×6	Ø2.0	6±0.3	7±0.3	0.7±0.2	0.2±0.1	Ø2.0±0.1
3×8	Ø3.0	8±0.3	10±0.3	1.1±0.2	0.3±0.1	Ø3.0±0.1
3×9	Ø3.0	9±0.3	10±0.5	1.1±0.2	0.3±0.1	Ø3.0±0.1
3×10	Ø3.0	10±0.3	9.7±0.5	1.1±0.2	0.3±0.1	Ø3.0±0.1