

# USE-USX-705015

CRYSTAL

SMD



**TYPICAL APPLICATIONS**

Cellular Telephones, PHS, Cordless Telephones and Pagers, Wireless Security System

**FEATURES**

Ultra-thin, Ceramic SMD Package, Seam Sealed, Lead-free Design, Tight Tolerance and Stability, Reflow Soldering, Emboss Taping, RoHS Compliant Standard

**DIMENSIONS**

7.0x5.0x1.1[mm]

**TYPICAL SPECIFICATIONS**

Model	USE-USX-705015		
Nominal Frequency Range	8.000~40.000MHz	30.000~100.000MHz	75.000~120.000MHz
Standard Frequency	8,12,16,20,25MHz	44, 48.100MHz	106.5, 121.4MHz
Vibration Mode	Fundamental [AT]	3rd Overtone [AT]	5th Overtone [AT]
Frequency Tolerance (@ +25°C)	±10 ppm, ±20 ppm, ±30 ppm		
Freq. Temp. Characteristics (Ref. to 25°C)	±10 ppm (-10°C~+60°C), ±20 ppm (-30°C~+80°C)		
Operating Temperature Range	-10°C~+60°C, -30°C~+80°C		
Storage Temperature Range	-40°C~+90°C		
Load Capacitance	Series, 16pF, 20pF, 30pF		
Shunt Capacitance	5pF Max.		
Drive Level	10µW (100µW Max.)		
Equivalent Series Resistance	See Table 1		
Aging (+25°C)	±1, ±3 ppm / year Max.		

Please consult with our sales department at: [sales@us-electronics.com](mailto:sales@us-electronics.com) for other parameters.

\*Package quantity 1,000 pcs max./reel.

**OUTLINE DIMENSIONS**

Unit:mm

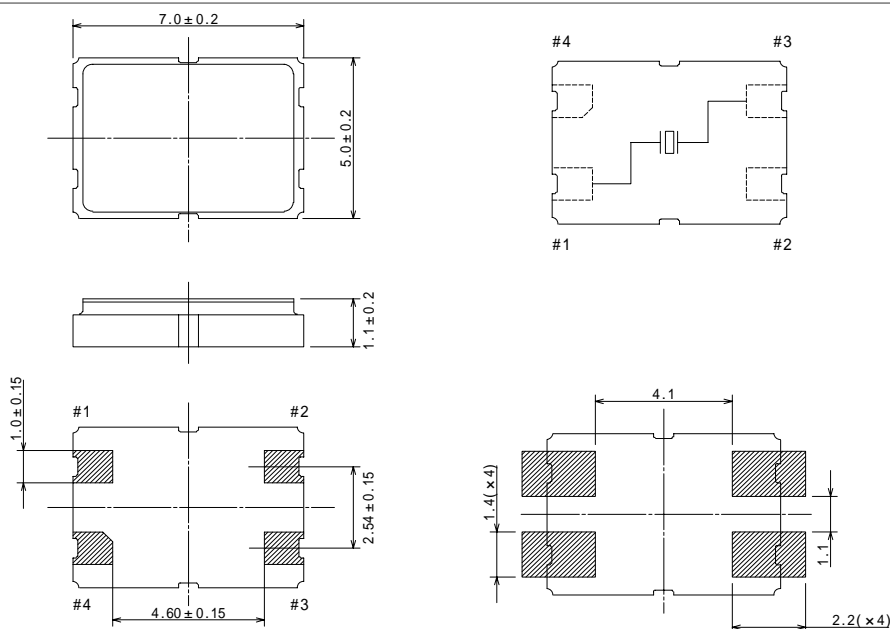


TABLE 1: ESR

AT-cut Fundamental		AT-cut 3rd Overtone		AT-cut 5th Overtone	
Frequency (MHz)	ESR(Ω)	Frequency (MHz)	ESR(Ω)	Frequency (MHz)	ESR(Ω)
8.000 ~ 9.999	60	30.000~100.000	80	75.000~120.000	100
10.000 ~ 11.999	50				
12.000 ~ 14.999	40				
15.000 ~ 40.000	30				