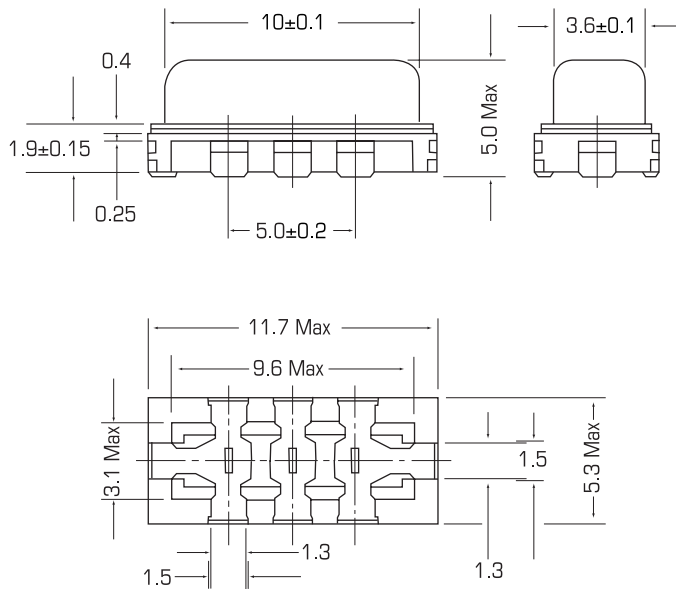


METAL PACKAGE SURFACE MOUNT CRYSTALS

MODEL S13

Model	S 13
Frequency Range	3.5MHz ~ 75.0 MHz
Frequency Tolerance @ 25°C	± 10, ± 15, ± 20, ± 30, ± 50ppm
Frequency Stability	± 20, ± 30, ± 50, ± 100ppm
Operating Temperature Range	0°C ~ +75°C Standard
Equivalent Series Resistance	Resistance Specifications Below (See Chart Below)
Load Capacitance	Series, 16pF, 20pF, 30pF
Shunt Capacitance	7pF Max
Drive Level	0.01 ~ 2000μW

DIMENSIONS Inches
(mm)



Frequency	Equivalent Series Resistance	Oscillation Mode
3.5 - 4.09MHz	150Ω Max	Fundamental
4.1 - 4.79MHz	120Ω Max	Fundamental
4.8 - 5.79MHz	100Ω Max	Fundamental
5.8 - 11.99MHz	90Ω Max	Fundamental
12.0 ~14.29MHz	70Ω Max	Fundamental
14.3 - 24.0MHz	50Ω Max	Fundamental
24.1 ~ 48.0MHz	80Ω Max	3rd Overtone
48.1 ~ 75.0MHz	60Ω Max	3rd Overtone