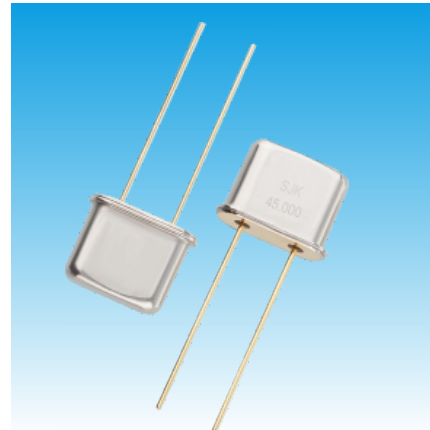


**Features**

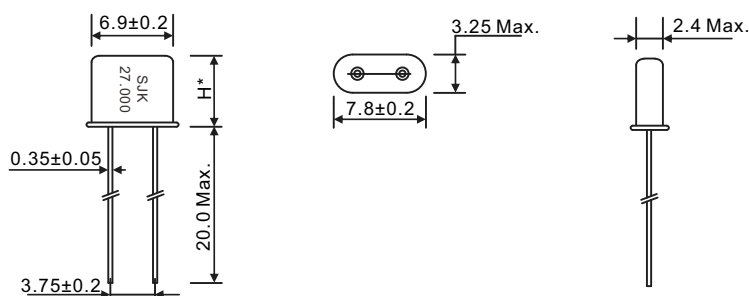
- High reliability and low cost
- Proven resistance welded metal package
- Tight stability and extended temperature range
- Wide frequency range from 3MHz to 100MHz
- Applications: *IoT, Consumer Electronics, HDTV, Communications, Visual Applications, etc.*
- RoHS Compliant & Pb Free


**Standard Specifications**

Type	6D, 6E Through-hole Crystal
Frequency Range	4~200 MHz
Frequency Tolerance (at 25°C)	±10ppm, ±20ppm
Frequency Stability (over Operating Temp.)	±10ppm, ±20ppm
Operating Temperature Range	-20~+70°C, or specify
Shunt Capacitance (C <sub>0</sub> )	7pF Max.
Drive Level	1~500μW (100μW Typ.)
Load Capacitance	Series of 9pF ~ 50pF
Aging (at 25°C)	±5ppm / year Max.
Storage Temperature Range	-55~+125°C
Packing Unit	200pcs.

**Equivalent Series Resistance**

Fundamental		3rd Overtone		5th /7th Overtone	
4~5.0MHz	100Ω Max.	24~35MHz	40Ω Max.	100~200MHz	100Ω Max.
5~6.0MHz	90Ω Max.	35~100MHz	80Ω Max.		
6~7.0MHz	80Ω Max.				
7~10MHz	60Ω Max.				
10~14MHz	50Ω Max.				
14~24MHz	40Ω Max.				

**Dimensions [mm]**


TYPE	H*
UM-1	7.8±0.2
UM-5	6.0 Max.