

**Features**

- Surface mount type crystal units.
- 2 types (S2: 3.0mm & S3: 3.8mm height) can be applied by customer.
- A great number of standard frequencies.
- High frequency pullability and low equivalent series resistance.
- Highly mass production capability.
- The best choice of PC, STB, LCDM and Cable Modem.
- Lead free parts are available for option.

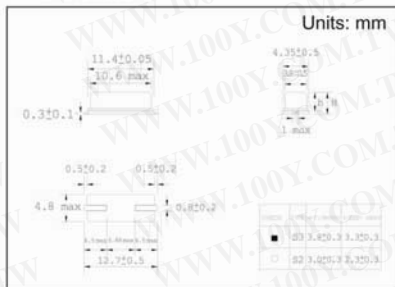

**Electrical Specifications**

Item	Type	6CS2, 6CS3
Frequency Range		3.2 ~ 70MHz
Frequency Tolerance (at 25°C)		± 30 ppm or customer specify
Frequency Stability Over Operating Temperature Range		± 30 ppm or customer specify
Operating Temperature Range		-10 ~ +60 °C or customer specify
Shunt Capacitance (C <sub>0</sub> )		7 pF Max.
Drive Level		1 ~ 500 uW (100 uW typical)
Load Capacitance		Series, 16pF, 20pF, 30pF, 32pF or specify
Aging		± 3ppm per year Max.
Storage Temperature Range		-40 ~ +85 °C

**Equivalent Series Resistance (ESR)**

Fundamental		3rd Overtone	
3.2 ~ 4MHz	120 Ω max.	27 ~ 30MHz	100 Ω max.
4 ~ 8MHz	80 Ω max.	30 ~ 50MHz	80 Ω max.
8 ~ 30MHz	40 Ω max.	50 ~ 70MHz	60 Ω max.

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**Dimensions**

**Reflow Condition**
