**Specification**

**PART NO 7C12000183AKAF60Q5**

1. **Scope:**

1.1 This specification applies to the RoHS/SONY compliance quartz crystal unit with a frequency of 12MHz which will be used in crystal oscillator applications.

2. **Construction:**

2.1 Type of Quartz Resonator: THHF-49S3 Standard leads

3. **Electrical Characteristics**

3.1 Nominal Frequency(f):

3.2 Load Capacitance(C<sub>L</sub>): 18pF

3.3 Frequency Tolerance(Δf/f):

3.4 Frequency Temperature Stability:

3.5 Resonance Resistance(ohm):

3.6 Osc mode:

3.7 Shunt Capacitance(C<sub>0</sub>): <7pF

3.8 Drive Level(D<sub>L</sub>): < 100μW

3.9 Operating Temperature Range(T<sub>OPR</sub>): -20 to + 70°C

3.10 Operable Temperature Range(T<sub>OPRA</sub>): -25 to + 85°C

3.11 Storage Temperature Range(T<sub>STG</sub>): -55 to + 125°C

3.12 Insulation Resistance(IR):

3.13 Aging(Δf<sub>a</sub>): ± 5ppm per Year

3.14 Marking: Q+12B000+DateCode+LotCode

3.15 OTHERS: Not recommended for safety applications