**Specification**

PART NO 7C16000183AKAF40Q5

1. **Scope:**
   1.1 This specification applies to the RoHS/SONY compliance quartz crystal unit with a frequency of 16MHz 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): 16,000,000 Hz
   3.2 Load Capacitance(C_L): 18pF
   3.3 Frequency Tolerance(Δf/f): ± 30ppm
   3.4 Frequency Temperature Stability: ±50ppm
   3.5 Resonance Resistance(ohm): 40ohms Max
   3.6 Osc mode: Fundamental mode
   3.7 Shunt Capacitance(C_0): <7pF
   3.8 Drive Level(D_L): < 100μW
   3.9 Operating Temperature Range(T_OPR): -20 to + 70°C
   3.10 Operable Temperature Range(T_OPR_A): -25 to + 85°C
   3.11 Storage Temperature Range(T_STG): -55 to + 125°C
   3.12 Insulation Resistance(IR): >500 M ohms
   3.13 Aging(Δf_a): ± 5ppm per Year
   3.14 Marking: Q+16B000+DateCode+LotCode
   3.15 OTHERS: Not recommended for safety applications

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