

Chip Monolithic Ceramic Capacitor

## Electrical Characteristics Data

### 0603 X7R 1uF 16V(0603B105K160CT)

#### 1. Dimension



| Size Inch (mm) | L (mm)          | W (mm)          | T (mm)          |
|----------------|-----------------|-----------------|-----------------|
| 0603 (1608)    | 1.60+0.15/-0.10 | 0.80+0.15/-0.10 | 0.80+0.15/-0.10 |

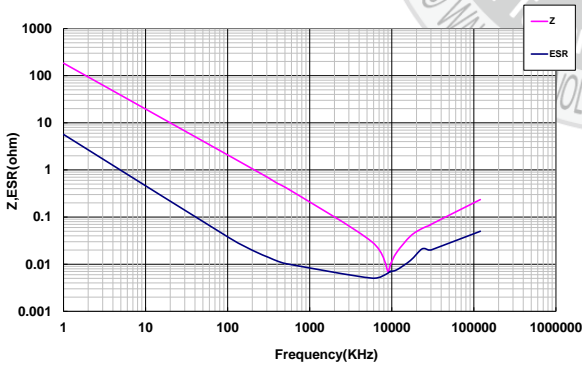
#### 2. Cap, DF, IR @25°C

(Cap, DF @1KHz, 1Vrms ; IR @16V, 120sec)

| Item       | Spec     |
|------------|----------|
| Cap [uF]   | 1 (±10%) |
| DF         | ≤ 10%    |
| IR [G-ohm] | ≥ 0.1    |

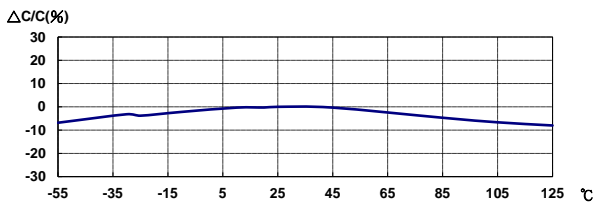
#### 3. Impedance/ESR-Frequency

(Equipment: 4990A)



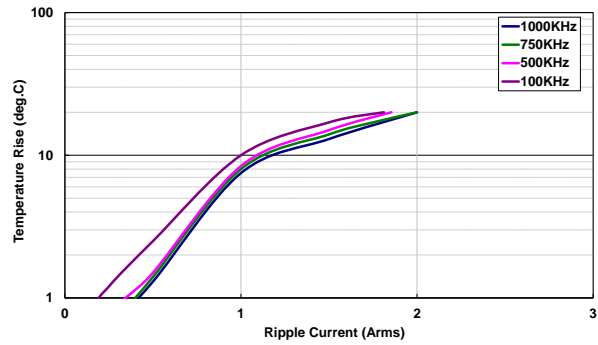
#### 4. Capacitance – Temperature Characteristics

(Equipment: 4284A)



#### 5. Temperature Rise – Ripple Current

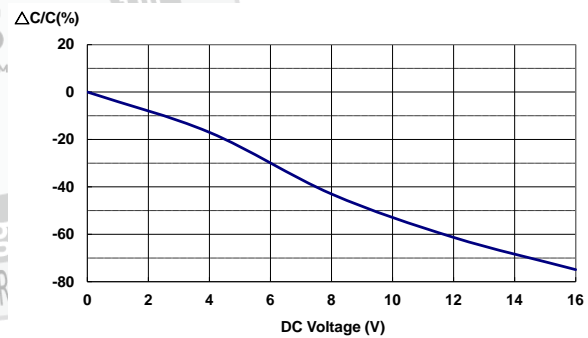
(Equipment: 11810)



#### 6. Capacitance – DC Voltage Characteristics

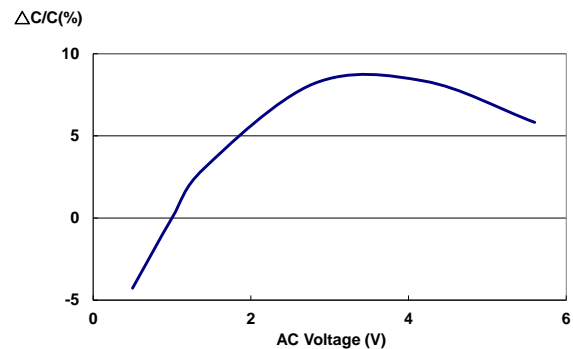
(Equipment: 4980A; DC charge 60±5sec)

8V : -43.0% ; 16V : -74.90%



#### 7. Capacitance – AC Voltage Characteristics

(Equipment: 4980A)



Last updated : 2020/12/30