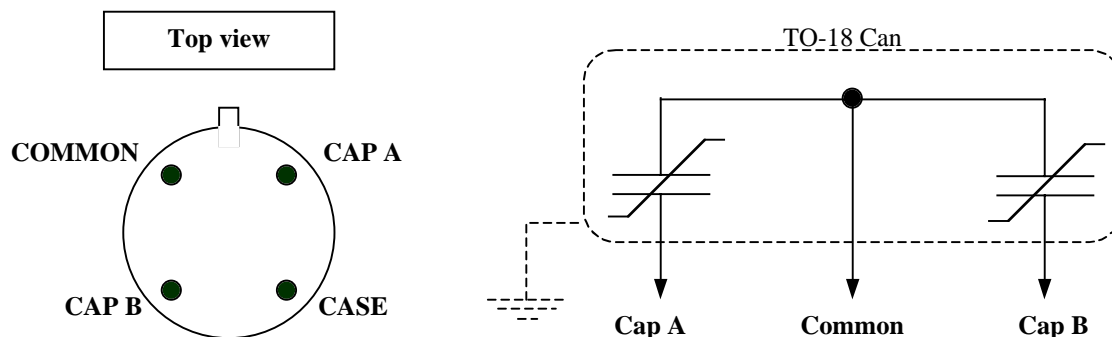


**Ferroelectric Component Technical Description
RC2-AAA**

Date: March 17, 2006

Summary:

Each die is packaged in a four-lead TO-18 header. One lead connects to the case and is labeled as GND. The common lead is connected to Pin 1. The two independent leads from the two capacitors are connected to Pins 2 and 4.



Temperature Range: -55°C to 125°C. Do not exceed 125°C.

Device Designation:

- “AA” => Die RC2-AAA 2700Å 4% niobium doped 20/80 PZT (4/20/80 PNZT)
- “AB” => Die RC2-AAA 2550Å undoped 20/80 PZT
- “AC” => Die RC2-AAA 1µ 4% niobium doped 20/80 PZT (4/20/80 PNZT)

Capacitor Size:

White	10,000µ ²
Yellow	4,000µ ²
Black	1,000µ ²
Red “AB”	400µ ²
Silver	100µ ²
Red “AA”	25µ ²

Total Lead Content per Package:

Type AA/AB =>	1.62 micrograms
Type AC =>	1.62 micrograms

NOTE: Red dot on top surface of lid indicates Type AC capacitor.

Recovery: The platinum electroded capacitors are prone to fatigue and imprint. They are tested at their saturation voltage at packaging and may be imprinted when received. As well, they will imprint at room temperature after use. There is a recovery procedure that will fully recover the capacitor from imprint. As well, the recovery procedure will recover from 60% to 80% of fatigue loss. The recovery procedure may be executed multiple times on a capacitor without damage. To recover a capacitor, execute a 9V (Type AA or AB) or 40V (Type AC) square wave at 1Hz for 100s on each capacitor at room temperature.

Saturation Voltages: Type AA/AB => 9V Type AC => 36V