

*2. (Capacitor) -

2004.10.17. ESR,ESL

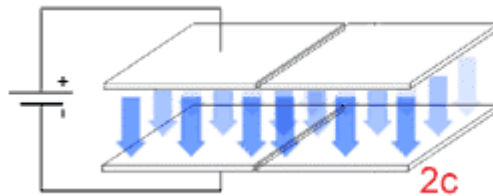
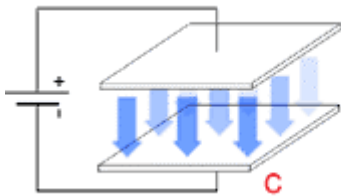
가, 2004.10.18.

가

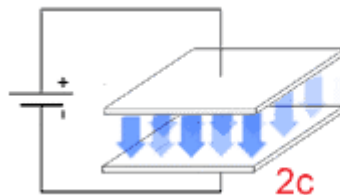
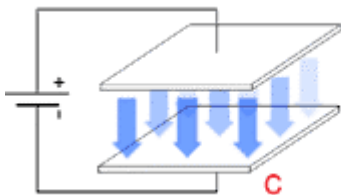
$$C = \epsilon \frac{A}{d}$$

가

가



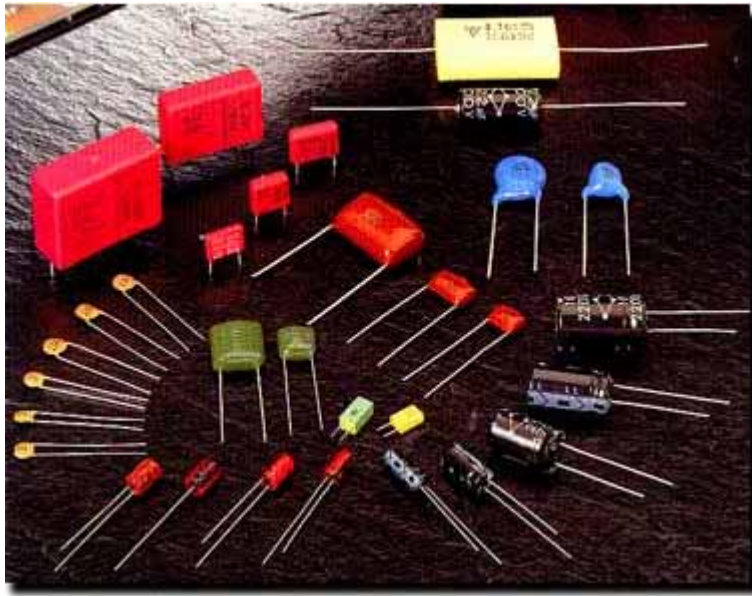
가



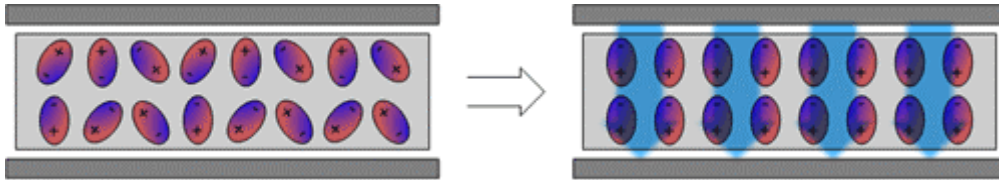
가
가 .^^

가 가

! 가



?



가
 가
 Factor (DF Tangent delta) 가
 가
 DF
 ESR(Equivalent Series resistance) 가
 Dissipation
 . (

가

가

가

가

leakage current

가

가

가

가

가

(Dielectric Absorption)

0v

가

가

가

가,

!

가

0

가

가

가

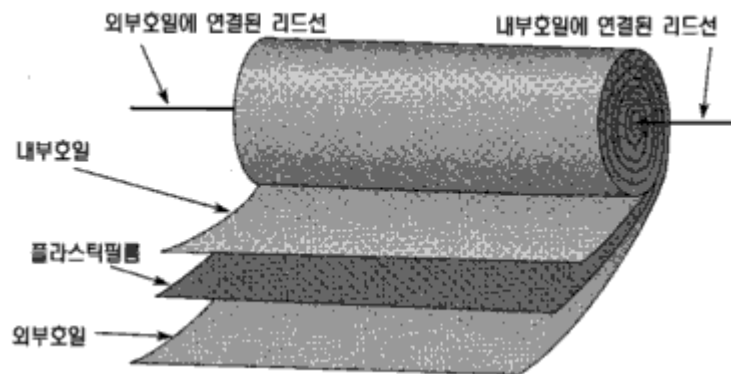
가

가

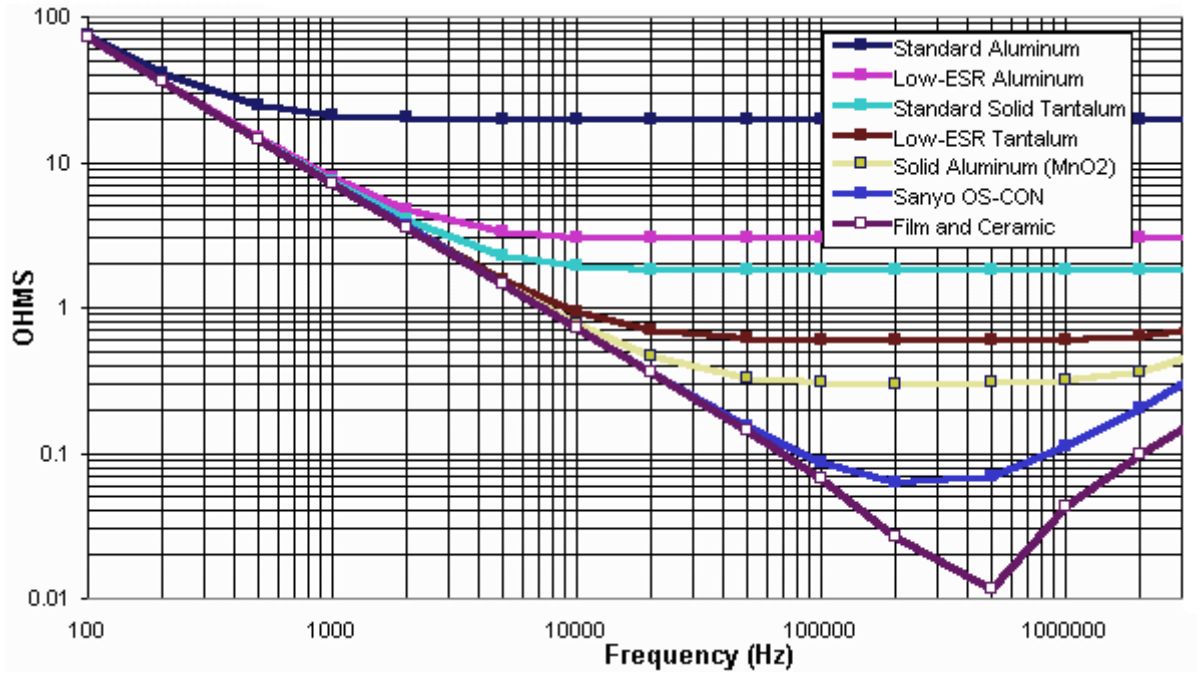
가

가

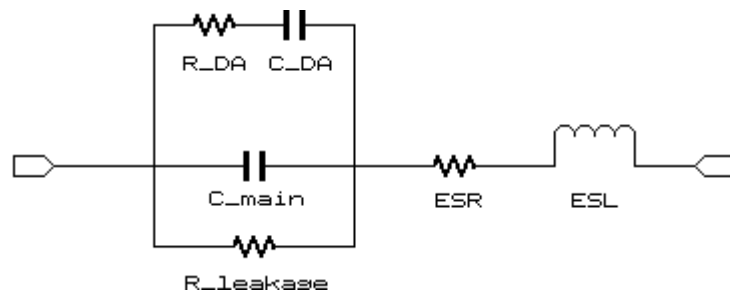
가



ESR (ESR)



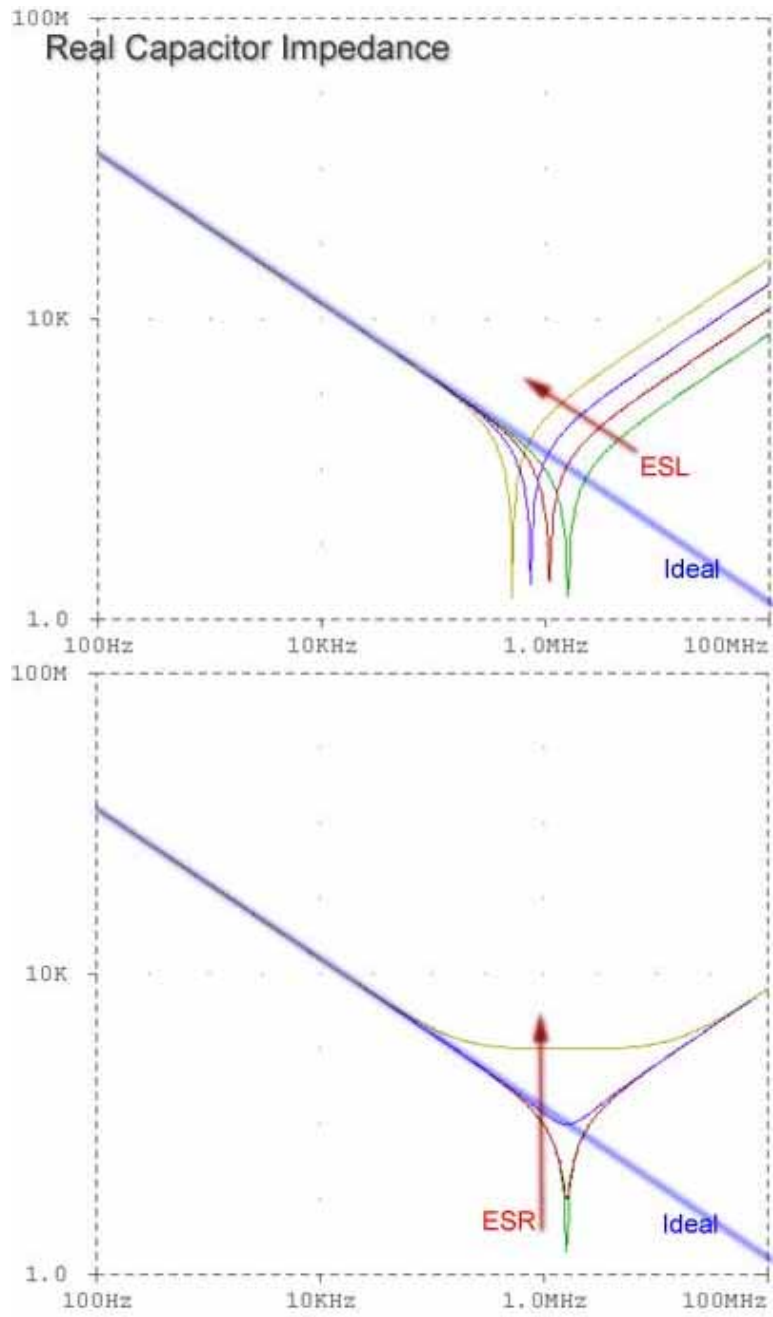
가 가 가 가 가 가 가 가



ESR
ESL
(DA)

80% ESR, ESL

ESR ESL



ESL
 ESR
 ?
 ESR
 가
 가
 가
 가
 ESR
 가
 (oscillation)
 가
 가
 가

- Capacitance value
- DC voltage rating
- Physical size
- Dissipation Factor or Tangent Delta
- ESR(Equivalent Series Resistance)
- ESL(Equivalent Series inductance)
- Leakage Current
- Temperature (variation, operation)
- Life
-

(.1)

가

