Capacitance Change With Change in Dielectric Constant

	K	C	ΔC
Aroclor 1242	5.95	2.04	
.67 Aroclor .33 2,2' ether	8.10	2.28	.24
.33 Aroclor .67 2,2' ether	10.25	2.43	.15
2,2' dichloro diphenyl ether	12.4	2.54	.11

DSW 283717

STLCOPCB4065136

2, 2' dichlorodiphenyl ether $K = 12.4$

Aroclor 1242 $K = 5.95$

$\frac{2}{3}$ Aroclor 1242	3.97
$\frac{1}{3}$ 2, 2' ether	4.13
	8.10
$\frac{1}{3}$ Aroclor 1242	1.98
$\frac{2}{3}$ 2, 2' ether	8.27
	10.25

$$C = 10^{-3} \frac{K_1 K_2}{K_1 t_1 + K_2 t_2} \text{ mf}$$

$K_1 = 6 \quad t_1 = .00187 \quad t_2 = .00103$

$\frac{1}{3}$ 2, 2' $\quad C = 10^{-3} \frac{6 \times 8.10}{6 \times .00103 + 8.1 \times .00187} = 2.28$

$\frac{2}{3}$ 2, 2' $\quad C = 10^{-3} \frac{6 \times 10.25}{6 \times .00103 + 10.25 \times .00187} = 2.43$

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