

Capacitors

Learning Goals:
 define capacitance and the farad;
 select and use the equation $Q = VC$;
 Verify the relationship between voltage and charge stored on a capacitor

Set up the apparatus as follows:

Exp 2: The effect of capacitance on charge stored

C (uF)	Q
30	7.8
100	5.2
500	17.0
1000	32
2000	10
5000	

$Q = It$ (Use average I is a half peak I)

What is the relationship between capacitance (C) and charge stored (Q)?

What assumptions have been made?

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Plenary:

Define Capacitance

Define the Farad

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