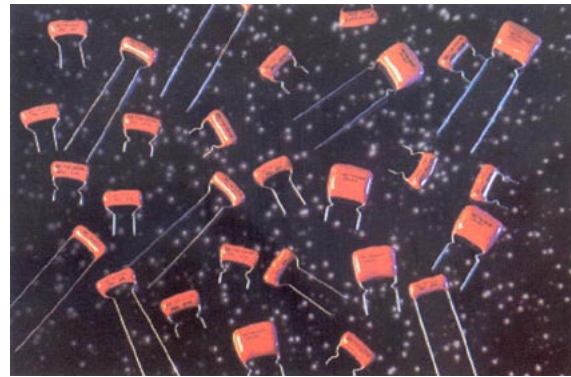




### Type 778P/779P Orange Drop<sup>®</sup> 400 Volts A-C Polypropylene Film/Foil Capacitors



#### Features

- Specifically designed for A-C voltage applications where corona free operation is required for high reliability.
- Extremely low dissipation factor and ESR.
- Ideal for high frequency, high pulse current applications; dV/dt rating up to 77,400 volts/μsec.
- Excellent stability, virtually linear temperature coefficient.
- Compact size with various lead spacings.

#### Specifications

**Capacitance Range:**  
470 pF to .033 μF

**Capacitance Tolerance:**  
±1% to ±10%

**Voltage Ratings:**  
400 Volts A-C/630 Volts D-C

**Operating Temperature Range:**  
-55°C to +85°C  
(+105°C with proper voltage derating)

**Lead Wire:**  
Tinned copper-clad steel,  
.032" (.8) diameter, #20 AWG

**Insulation Resistance:**  
400,000 MΩ minimum at +25°C  
20,000 MΩ minimum at +85°C  
2,000 MΩ minimum at +105°C

**Temperature Coefficient (typical, over temperature range of -55°C to +85°C):**  
-140 ppm/°C, Type 778P  
-180 ppm/°C, Type 779P

**Pulse Rise Time, dV/dt:**  
See standard ratings table.

**Dissipation Factor & ESR:**  
See standard ratings table.

**Corona Start Voltage (typical):**  
500 Volts RMS

**Encapsulation:**  
Conformal coating of flame retardant orange epoxy (meets UL94V-2 specs.)

**Dielectric:**  
Polypropylene film; utilizing a floating common of metallized polypropylene, which provides self-healing characteristics.

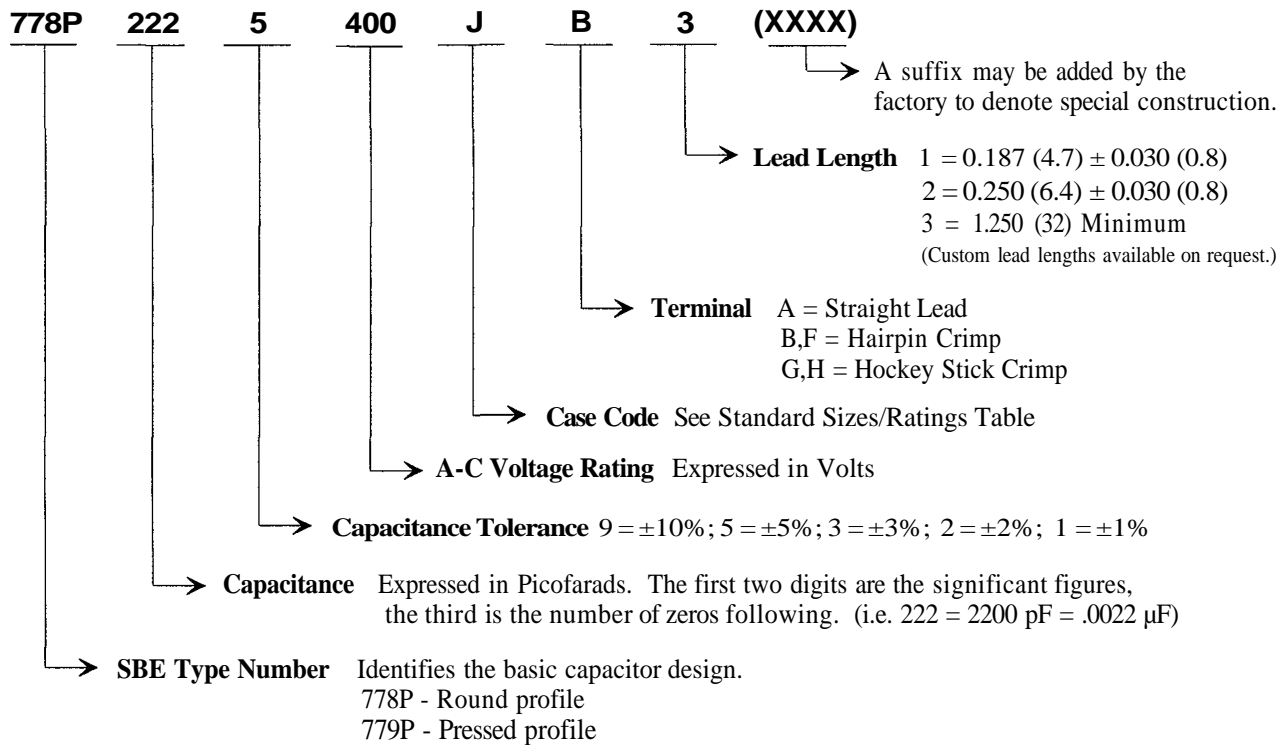
**Construction:**  
Non-inductively wound with extended foil, internal series-section design.

**Applications:**  
Electronic Lighting Ballasts, Switching Power Supplies, Resonant Converters.

Dimensions in inches, metric (mm) in parenthesis.



## Ordering/Part Number Information



## Standard Marking Format

Sample Marking on unit	Description	Tolerance codes per EIA Standards
SBE778P400VAC 222J 9810	SBE - SB Electronics identification	F ±1%
	778P - Type number	G ±2%
	400VAC - A-C Voltage rating, Volts	H ±3%
	222J - Capacitance and tolerance code	J ±5%
	9810 - Date code (i.e. 10th week of 1998)	K ±10%

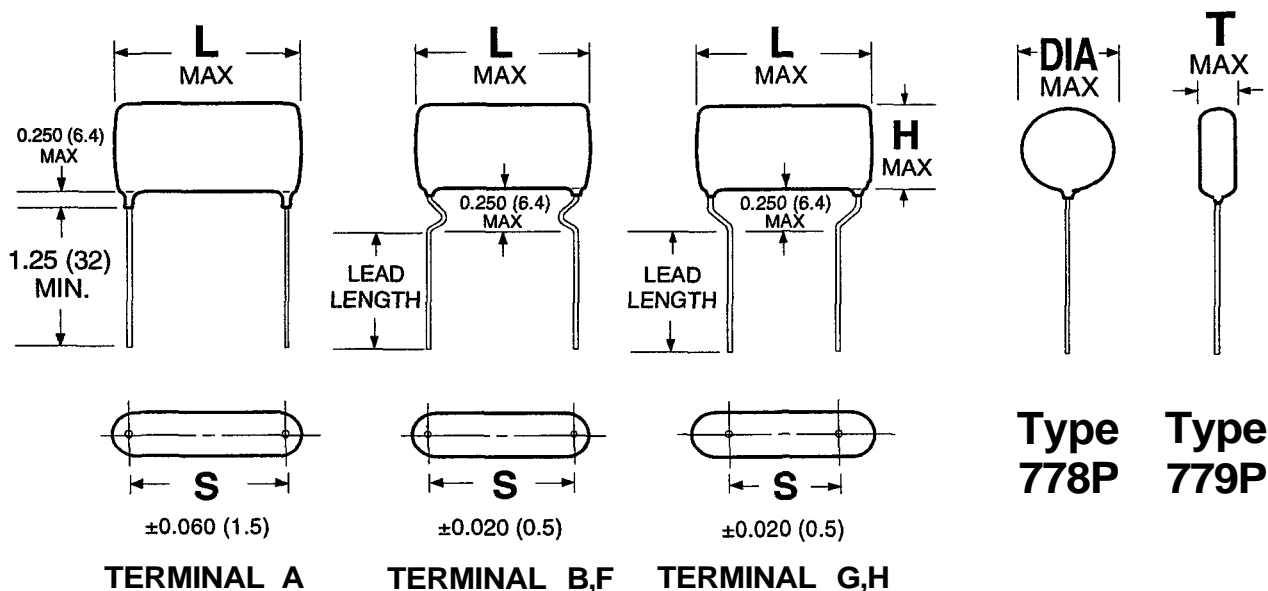
Dimensions in inches, metric (mm) in parenthesis.





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### Standard Lead Styles



### Standard Lead Spacings

S				
Term. A	Term. B	Term. F	Term. G	Term. H
0.590 (15.0)	0.590 (15.0)	0.394 (10.0)	0.295 (7.5)	0.197 (5.0)

**Note:** For additional capacitance values, further detailed technical data, application information, or any questions, please contact us!

Dimensions in inches, metric (mm) in parenthesis.





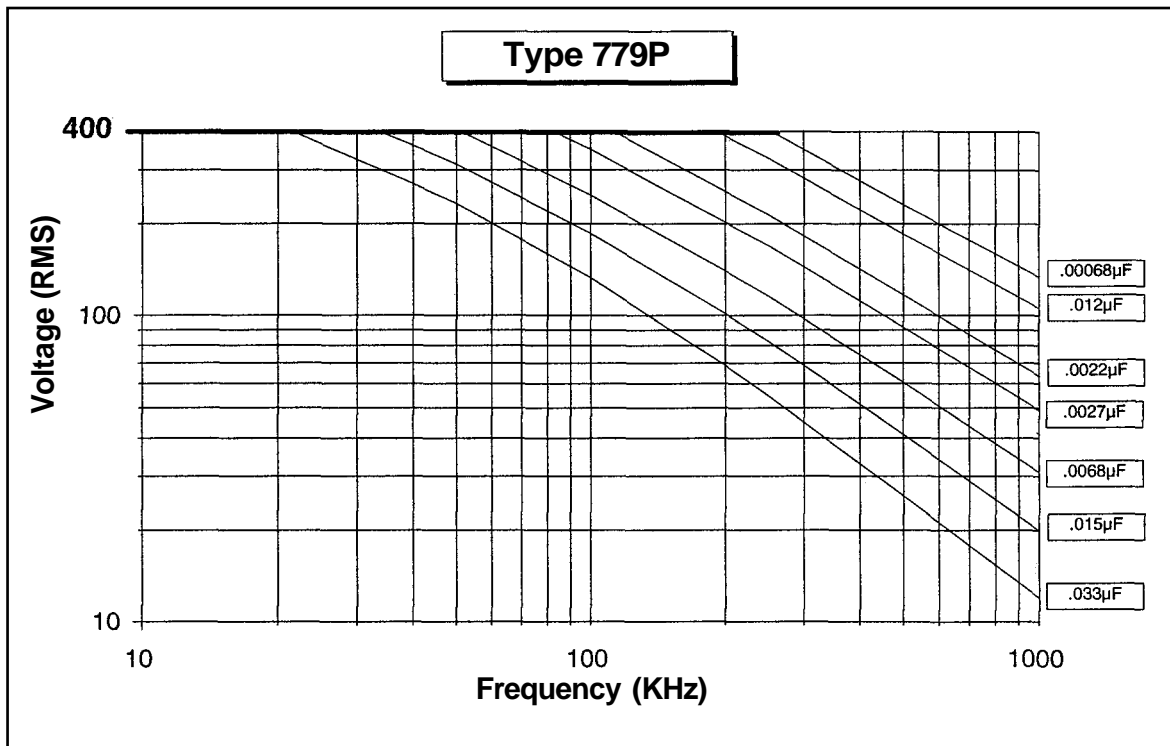
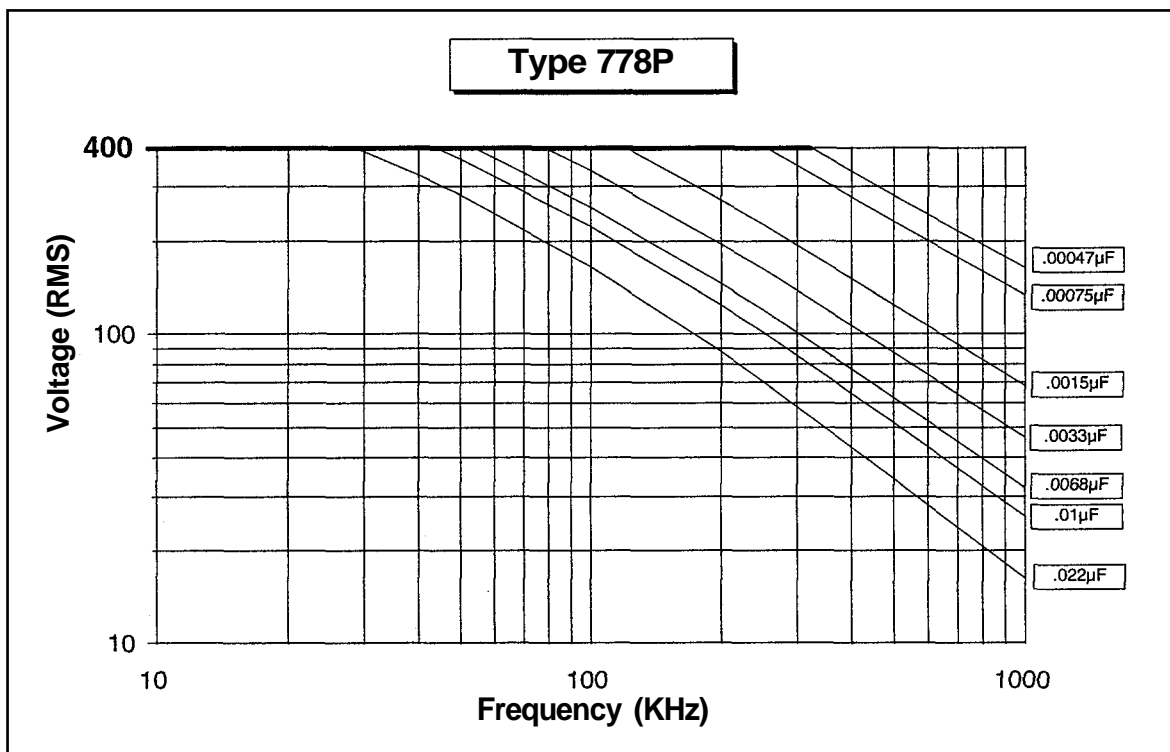


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# Type 778P/779P, 400 VAC

Polypropylene Film/Foil Capacitors

## RMS Voltage vs. Frequency @ +85°C



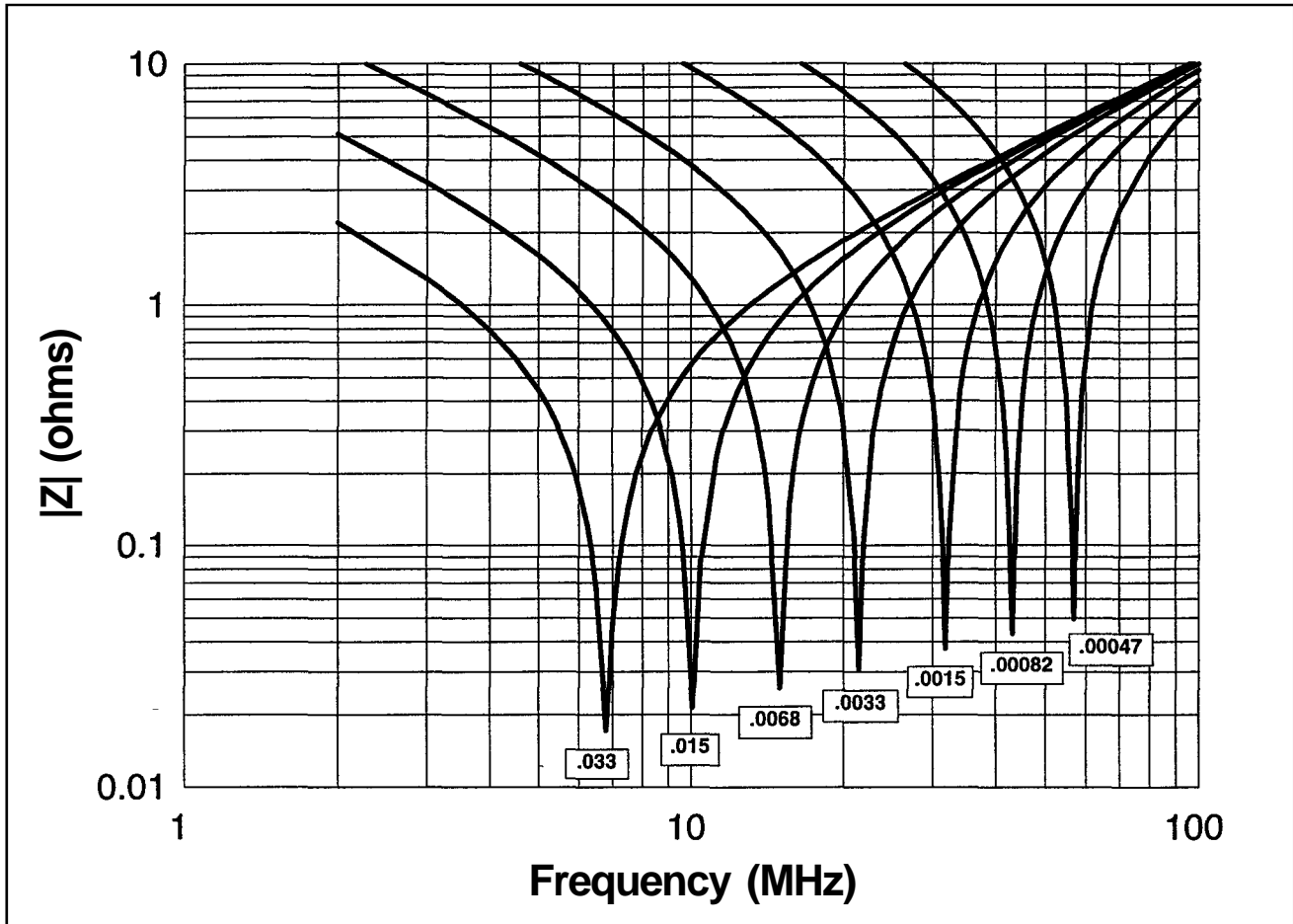


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# Type 778P/779P, 400 VAC

Polypropylene Film/Foil Capacitors

## Typical Impedance vs. Frequency



Please note: Capacitance values above are in  $\mu\text{F}$ . The resonant frequency and impedance shown above apply to units with a 0.250" lead length and are typical values only. Please contact us for additional data.

