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pfc Precision Film Capacitors and Standards

Sold in complete kits or individually, Electrocube's pfc Precision Film Capacitors and Standards are stabilized silvered mica and polystyrene dielectric capacitors. They feature a wide application for calibration standards, breadboard components, circuit simulation devices and precision components in stable frequency or timing networks. The kit is a close-to tolerance, stable capacitor set with calibration traceable to the National Bureau of Standards.

Side view

Top view .2639 mfd. ±0.1%

4 position adapter

Obtain a capacitance value of four significant figures with an accuracy of ±0.1% by quick and easy insertion of pfc Standard Capacitors into adapter fixture.

Complete Set of 32 Precision Standards ranging from .0001 to .5 mfd. (Dimensions: 11 ⅜" w x 9 ¾" h x 3 ⅜" d) with a 4 position adapter with durable aluminum carrying case

Features

- Highest grade, clear India ruby mica, optimizing electrical characteristics
- Maximum insulation resistant/minimum dissipation factor
- pfc standards are accurate as laboratory standards after 10 years of use, remaining within 0.1% of original calibration
- Moisture sealed to ensure a long operating life
- Designed to provide a moderately-priced, high precision, versatile laboratory standard
- Considerably smaller and lighter than other designs
- Sold as a set or individually
- Available with a 4 position adapter calibrated for stray capacitance
- Wide applications: calibration standard, breadboard component, circuit simulation device and a precision component in stable frequency or timing networks
- Available in values up to 10.0 mfd.

Specifications

Temperature coefficient

- .0001 to 0.1 mfd. 0 to 20 ppm/degrees C
- 0.2 to 1.0 mfd. -120 ±15 ppm/degrees C

Maximum voltage

- .0001 to .04 mfd. 500 volts peak
- .05 to 1.0 mfd. 300 volts peak

Accuracy of calibration

- ±0.1% – 0.5% mmf. of nominal printed on capacitor at 1 khz frequency and 23 degrees C

Long-term stability

- ±0.05% +0.1 mmf.

Insulation resistance

- 5,000 megohm-microfarads need not exceed 50,000 megohms

Dissipation factor

- .0001 to .0004 mfd. ≤ 0.15%
- .0005 to .001 mfd. ≤ 0.1%
- .002 to 1.0 mfd. ≤ 0.05%
- 1.0 to 10 mfd. ≤ 0.02% max

Case

- Values .0001 mfd. to 0.1 mfd. = length: 1 9/16", width: 15/16", height: 1 15/16"
- 0.2 mfd. to 0.5 mfd. = length: 1 9/16", width: 15/16", height: 2 7/32" high
- 0.6 mfd. to 1.0 mfd. = length: 1 9/16", width: 1 11/16", height: 2 5/16"
- 2.0 mfd. = length: 3 15/16", width: 4 5/8", height: 2 3/8"
- 5.0 mfd. = length: 3 15/16", width: by 4 5/8", height: 3 3/8"
- 10.0 mfd. = length: 3 15/16", width: 4 5/8", height: 5 3/8"

PART NO.	CAP MFD.	DISSIPATION FACTOR (MAX)	INSULATION RESISTANCE MEGOHMS (MIN)
SS-101	0.0001	0.0015	50,000
SS-201	0.0002	0.0015	50,000
SS-301	0.0003	0.0015	50,000
SS-401	0.0004	0.0015	50,000
SS-501	0.0005	0.001	50,000
SS-601	0.0006	0.001	50,000
SS-701	0.0007	0.001	50,000
SS-801	0.0008	0.001	50,000
SS-901	0.0009	0.001	50,000
SS-102	0.001	0.001	50,000
SS-202	0.002	0.0005	50,000
SS-302	0.003	0.0005	50,000
SS-402	0.004	0.0005	50,000
SS-502	0.005	0.0005	50,000
SS-602	0.006	0.0005	50,000
SS-702	0.007	0.0005	50,000
CC-802	0.008	0.0005	50,000
SS-902	0.009	0.0005	50,000
SS-103	0.01	0.0005	50,000
SS-203	0.02	0.0005	50,000

	PART NO.	CAP MFD.	DISSIPATION FACTOR (MAX)	INSULATION RESISTANCE MEGOHMS (MIN)
	SS-303	0.03	0.0005	50,000
	SS-403	0.04	0.0005	50,000
	SS-503	0.05	0.0005	50,000
	SS-603	0.06	0.0005	50,000
	SS-703	0.07	0.0005	50,000
	SS-803	0.08	0.0005	50,000
	SS-903	0.09	0.0005	50,000
	SS-104	0.1	0.0005	50,000
	SS-204	0.2	0.0005	100,000
	SS-304	0.3	0.0005	100,000
	SS-404	0.4	0.0005	100,000
	SS-504	0.5	0.0005	100,000
*	**SS-604**	0.6	0.0005	100,000
*	**SS-704**	0.7	0.0005	100,000
*	**SS-804**	0.8	0.0005	100,000
*	**SS-904**	0.9	0.0005	100,000
*	**SS-105**	1	0.0005	100,000
**	**SS-205**	2	0.0005	100,000
**	**SS-505**	5	0.0005	100,000
**	**SS-106**	10	0.0005	100,000

* Not part of No. SS-32 kit

** These values are not available in plug-in style. Consult Electrocube for details.

For questions and/or a quote, contact Sales at 909-595-4037 or info@electrocube.com.

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Founded in 1961, Electrocube is one of the most respected design manufacturers of passive electrical components – film capacitors, RC Networks, EMI Filters and foil transformers – for a wide range of standard and custom applications in the aerospace, audio, elevator, heavy equipment industries and more. Electrocube's hallmark is its clear understanding of the challenges faced by design engineers and purchasing agents as well as equipment repair/metrology labs and outside equipment calibration labs. **www.electrocube.com**