



- *Three-Terminal design*
- *Low Dissipation Factor*
- *Low Voltage Coefficient*
- *Low Temperature Coefficient*
- *High Linearity*
- *Insulated with Sulfur Hexafluoride Gas*

## ***HIGH VOLTAGE STANDARD CAPACITORS***

### **DESCRIPTION**

Compressed gas standard capacitors are used in measuring circuits in which a constant capacitance and the lowest possible dissipation factor are required.

The compressed gas capacitor is commonly used as a reference standard in bridge circuits measuring capacitance and dissipation factor.

Connection of the capacitor to form a capacitive divider facilitate measurements of AC voltage including peak and surge voltage. A capacitive divider, active or passive, can also be used in conjunction with a wattmeter to measure the losses in voltage transformers.

The capacitors have three terminals as follows...

- 'H' - High voltage
- 'L' - Low voltage
- 'G' - Safety, Guard, Case

Suitable for non-condensing, indoor laboratory environments and are available in various capacitance values ranging in capacitance from 100pF to 10,000pF and voltage ratings from 3KV to 100KV.

### **ORDERING INFORMATION**

<b>Item</b>	<b>Catalog No.</b>
3 kV, 100 pF.....	PMT10050-000-00
3 kV, 10,000 pF.....	PMT10060-000-00
15 kV, 100 pF.....	PMT10000-000-00
15 kV, 1,000 pF.....	PMT10010-000-00
25 kV, 1,000 pF.....	PMT10070-000-00
36 kV, 100 pF.....	PMT10030-000-00
36 kV, 200 pF.....	PMT10040-000-00
100 kV, 100 pF.....	PMT10020-000-00

## SPECIFICATIONS

CAT. NO.		10050	10060	10000	10010	10030	10040	10070	10020
<b>Rated Voltage</b>	kV (rms)	3	3	16	16	36	36	25	100
<b>Test Voltage</b>	kV (rms)	4	4	18	18	42	42	30	120
<b>Capacitance ±1%</b>	pF	100	10,000	100	1,000	100	200	1,000	100
<b>Measured Capacitance Tolerance</b>	%	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.03
<b>Dissipation Factor</b>	Less Than	10 ppm	10 ppm	10 ppm	10 ppm	10 ppm	10 ppm	10 ppm	20 ppm
<b>Partial Discharge</b>	pC	5	5	5	5	5	5	5	5
<b>Gas Pressure</b>	kPa psi	50 7.5	100 15	100 15	100 15	200 30	200 30	200 30	200 30
<b>Temperature Coefficient of Capacitance</b>	ppm / °C	+100	+100	+100	+100	+100	+100	+100	+20
<b>Design</b>		Parallel Plate	Parallel Plate	Parallel Plate	Parallel Plate	Parallel Plate	Parallel Plate	Parallel Plate	Concentric Cylinder
<b>Height</b>	in mm	5 127	23 585	16 406	20 508	20 508	20 508	30 762	53 1350
<b>Base Size</b>	in mm	4 100	8 200	8 200	8 200	8 200	8 200	8 200	24 610
<b>Weight</b>	lb kg	2.2 1	33 15	22 10	35 16	26 12	30 14	35 16	242 110

## CONTACT INFORMATION



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