

Compact, High-Voltage, Polypropylene Power Capacitors

PPHT...dv

Applications

- High Voltage circuits
- Voltage dividers and multipliers

Main Characteristics

- Compact size / $U_t = 1.6 U_n$
- Dielectric of metallized polypropylene
- Light-weight / Self-healing
- Low dielectric losses
- Low inductance ≤ 50 nH
- Capacitance measured at 1 kHz / 23 °C
- Lower Tolerances available on demand



Design

- Cylindrical winding Polyester wrapped
- Axial connections with tinned copper wires
- Epoxy resin end seal (UL94-VO)

1. Rated Values and Operational data

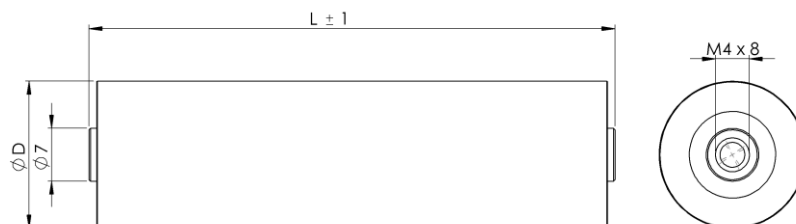
Nominal Voltage	U_N DC	10k	15k	20k
Nominal Voltage up to 1 kHz	U_N AC / 50 Hz	830	1250	1660
Slope of voltage variation	Du/dt max V/ μ s			

Insulation resistance $C \leq 0.33 \mu$ F	500 V / 1 min / 23 °C	R_i [mOhms]	> 100'000
Time Constant $C > 0.33 \mu$ F	500 V / 1 min / 23 °C	$R_i \times C$ [s]	> 30'000

2. Capacitance

Cn =>	500pF	680pF	1nF	1.5nF	2.2nF	3.3nF	4.7nF	5nF	6.8nF	10nF	15nF	20nF	22nF	33nF	47nF	50nF	68nF
10k																	
15k																	
20k																	

3. Dimensions



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High Voltage Metallized Capacitors					10 kVDC
Type	C [nF]	DØ [mm]	L ± 1 [mm]	ESR [Ω]	I _{eff} [A]
PPHT 1000-247 K	4.7	19.5	70	0.355	1.6
PPHT 1000-268 K	6.8	21.0	70	0.41	1.6
PPHT 1000-110 K	10	22.5	70	0.50	1.5
PPHT 1000-115 K	15	25.5	70	0.64	1.4
PPHT 1000-120 K	20	29.0	70	0.77	1.4
PPHT 1000-122 K	22	29.5	70	0.83	1.4
PPHT 1000-133 K	33	34.5	70	1.13	1.3
PPHT 1000-147 K	47	40.5	70	1.51	1.2
PPHT 1000-150 K	50	41.5	70	1.59	1.2
PPHT 1000-168 K	68	47.0	70	2.08	1.1

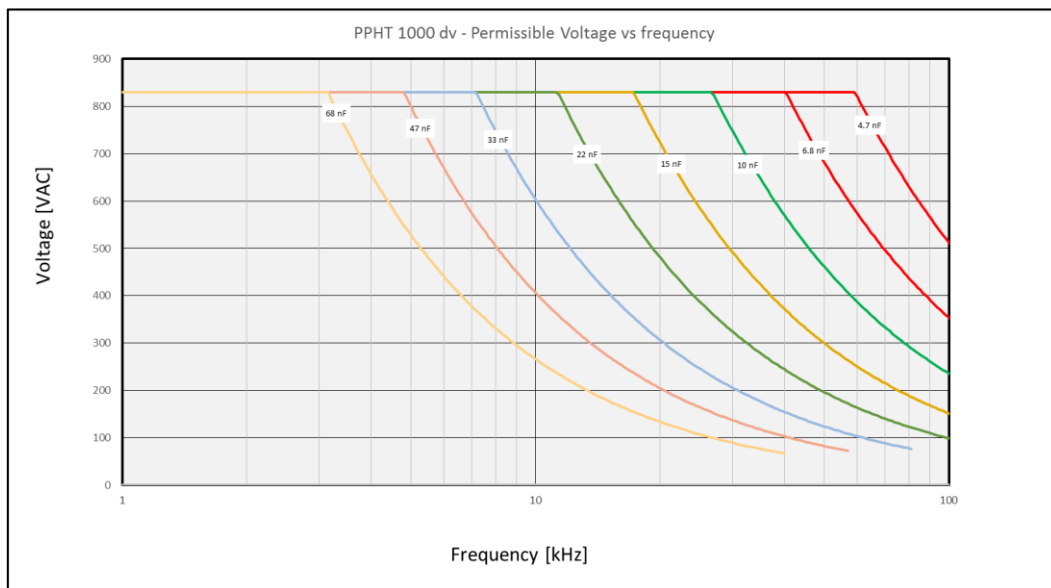
High Voltage Metallized Capacitors					15 kVDC
Type	C [nF]	DØ [mm]	L ± 1 [mm]	ESR [Ω]	I _{eff} [A]
PPHT 1500-215 K	1.5	19.0	70	0.349	1.59
PPHT 1500-222 K	2.2	19.0	70	0.39	1.56
PPHT 1500-233 K	3.3	21.0	70	0.46	1.52
PPHT 1500-247 K	4.7	23.0	70	0.55	1.47
PPHT 1500-265 K	6.5	25.5	70	0.66	1.42
PPHT 1500-268 K	6.8	25.9	70	0.67	1.42
PPHT 1500-110 K	10	30.0	70	0.87	1.35
PPHT 1500-115 K	15	35.0	70	1.18	1.27
PPHT 1500-120 K	20	39.5	70	1.48	1.22
PPHT 1500-122 K	22	41.0	70	1.61	1.20
PPHT 1500-133 K	33	49.0	70	2.28	1.12

High Voltage Metallized Capacitors					20 kVDC
Type	C [nF]	DØ [mm]	L ± 1 [mm]	ESR [Ω]	I _{eff} [A]
PPHT 2000-350 K	0.5	18.0	70	0.341	1.57
PPHT 2000-368 K	0.68	18.5	70	0.36	1.56
PPHT 2000-210 K	1	19.0	70	0.40	1.53
PPHT 2000-215 K	1.5	20.2	70	0.45	1.50
PPHT 2000-222 K	2.2	22.2	70	0.53	1.46
PPHT 2000-233 K	3.3	24.9	70	0.65	1.41
PPHT 2000-247 K	4.7	28.0	70	0.80	1.36
PPHT 2000-268 K	6.8	32.1	70	1.03	1.30
PPHT 2000-110 K	10	37.4	70	1.38	1.23
PPHT 2000-115 K	15	44.3	70	1.92	1.16
PPHT 2000-122 K	22	52.5	70	2.69	1.09

For values not shown, please contact the factory.

We can build to your specifications.

4. Operational limits

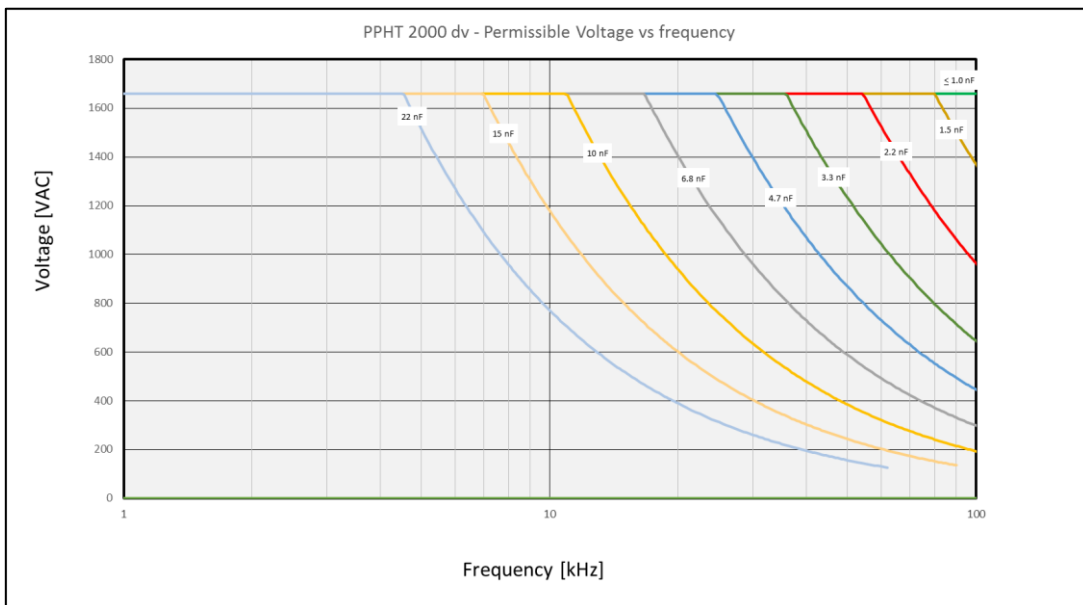
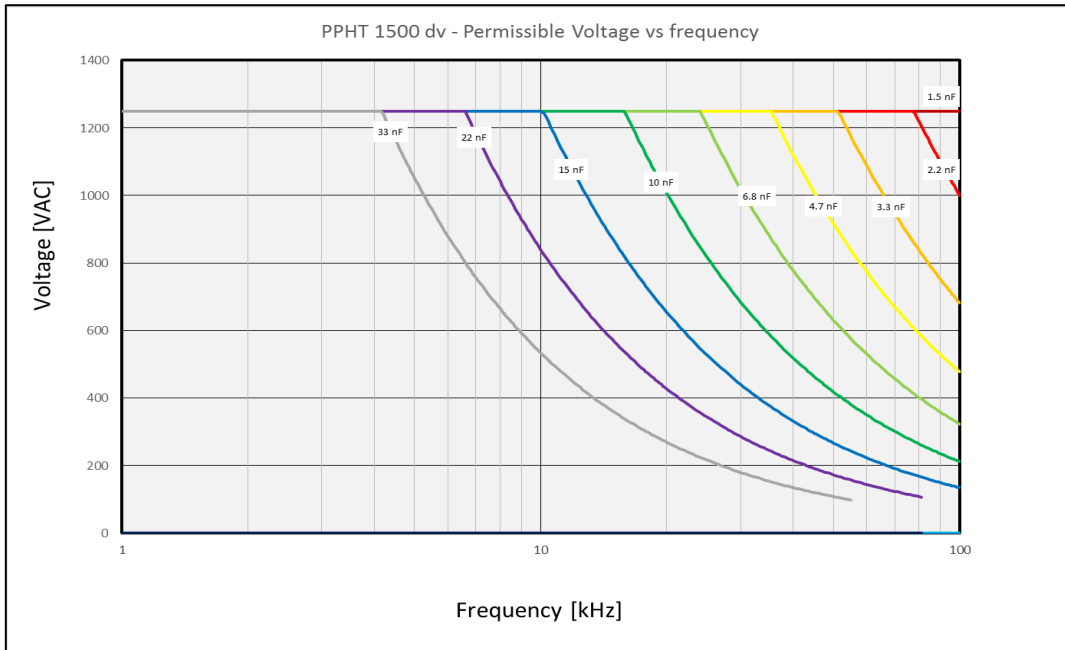


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