

GENERAL TECHNICAL DATA

Dielectric:

polyester film (polyethylene terephthalate)

Plates:

aluminium layer deposited by evaporation under vacuum.

Winding:

non-inductive type.

Leads:

tinned wire.(minimum lead content 5%)

Protection:

plastic case, epoxy resin filled.

Box made of solvent resistant material.

Marking:capacitance, tolerance, D.C nominal voltage.

Climatic category:

FME DIN 40040

55/100/21 IEC 68-1

Technical terms and tests:

IEC 384-2 CECC 30400 DIN 44110 T1

DIN 45910 T11.

Dissipation factor(DF):

$\text{tg}\delta \times 10^{-4}$ at $+25^{\circ}\text{C} \pm 5^{\circ}\text{C}$

kHz	$C < 0.1 \mu\text{F}$	$0.1 \mu\text{F} \leq C \leq 1 \mu\text{F}$
1	≤ 80	≤ 80
10	≤ 150	≤ 150
100	≤ 300	

Insulation resistance:

Test conditions

Temperature: $+25^{\circ}\text{C} \pm 5^{\circ}\text{C}$

Voltage charge time: 1 minute

Voltage charge: 50 Vdc for $V_n < 100$ Vdc
100 Vdc for $V_n > 100$ Vdc

For $V_n \leq 100$ Vdc

$\geq 10^4 \text{ M}\Omega$ for $C \leq 0.1 \mu\text{F}$

$\geq 1000 \text{ Sec.}$ for $C > 0.1 \mu\text{F}$

For $V_n > 100$ Vdc

$\geq 3 \times 10^4 \text{ M}\Omega$ for $C \leq 0.33 \mu\text{F}$

$\geq 10^4 \text{ Sec.}$ for $C > 0.33 \mu\text{F}$

Capacitance values:

values in compliance with IEC 63 Norm.

E6 series.

Capacitance tolerances:

$\pm 5\%$ $\pm 10\%$ $\pm 20\%$

Maximum pluse rise time (dv/dt): (v/ μSec)

V	P=5	P=7.5	P=10
63	8	5	3
100	15	6	6
250	20	15	11
400	40	30	20
630	50	40	30

If the working voltage (V) is lower than the nominal voltage (V_n), the capacitore can work at higher dv/dt. In this case the maximum value allowed is obtained mutiplaying the above value (see table dv/dt) with the ratio V_n / V .

Winding scheme

