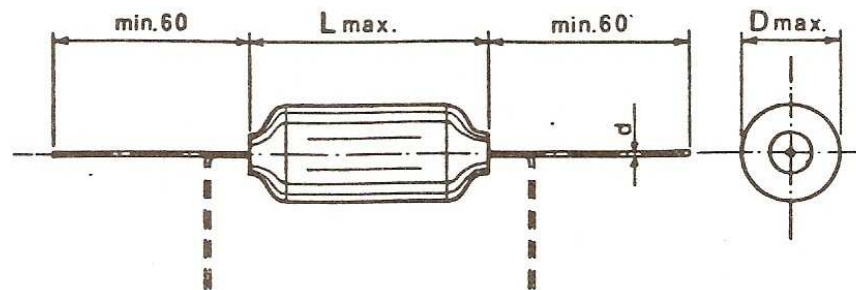


1. Dimensions (mm)



2. Design

Polystyrene winding with extending metal foils, suitable for pulses.  
Polystyrene wrapped.  
Ends with cast resin sealed  
Terminals : tinned copper lead wires.

3. Characteristics

3.1. Rated data

Rated voltage  $U_{M\sim} = 500$  V rms 50 Hz at max. 70 °C

Rated voltage  $U_{M-} = 6.3$  kV- at max. 70°C

Admissible 50 Hz AC Voltage, intermittent  $U_b \leq 750$  Vrms

Admissible sinus HF  $\leq 1000$  V (peak)

Operating AC + HF :  $U_b \leq 250$  Vrms 50 Hz + 1000 V HF (peak)

HF current :  $I \leq 2.5$  Arms  $f = 20...500$ kHz

Surge Voltage : full wave 1.2/50  $U_s \leq 20$  kV

Capitance C : 47 pF till 47'000 pF (2)

Tolerance : +/-20% (M)  $C \leq 200$  pF +/- 10% (K)  $C > 220$  pF (2)

C-stability :  $\Delta C/C \leq +/- 0.33$  %

Insulation resistance :  $R_{is} \geq 1.10^5$  M0hm at 1000 V- /1min./23°C/ 50% rel. humidity.

3.2. Standard test values

AC Voltage  $U_{T1} = 3800$  Vrms/50 Hz/2 s

DC Voltage  $U_{T2} = 2,5 \cdot U_{M-} = 15.75$  kV- / 1 min.

Surge Voltage  $U_{T3} = 25$  kV one full wave

3.3 Maximum ratings

Admissible surge voltage with both polarities

Full wave 1.2/50  $U_s \leq 20$  kV (2 surges by minute)

Chopped wave (time to cut  $\leq 5$ us)  $U_s \leq 25$  kV

Test class 40/70/56

User class DIN 40040 : GSF

General specification IEC 384-7

4. Remarks

1. The serie PhF 100-... replaces CRF-Model KS53
2. Other capacitance values or tighter tolerances upon request
3. Test data for higher requirements according to special specification.