

# ESTAdry-DC-Capacitor GMKP 1200-70 IBR

## DATASHEET

### NOMINAL RATINGS

Capacitance / Tolerance	Cn	70 $\mu$ F $\pm$ 10%
Rated voltage	Un	1200 V DC

### OVER VOLTAGES ACCORDING TO IEC 61071

1.1 x Un	U1	1.320 V (30% of on-load-dur.)
1.15 x Un	U2	1.380 V (30min/day)
1.2 x Un	U3	1.440 V ( 5min/day)
1.3 x Un	U4	1.560 V ( 1min/day)
Surge peak voltage	Us	1.200 V (100ms < 1000x per LT)

Voltage rate of rise	du/dt	30 V/ $\mu$ s
Maximum r.m.s. current	I <sub>max</sub>	25 A
Peak current cont.	I <sub>pr</sub>	945 A
Peak surge current	I <sub>ps</sub>	2.835 A

Self inductance	L <sub>s</sub>	< 150 nH
Series resistance	R <sub>ESR</sub>	< 3 mOhm
Loss factor 50 Hz	tan	< 4 x 10 <sup>-4</sup>
Loss factor diel. 50 Hz	tan	< 2 x 10 <sup>-4</sup>

### ROUTINE TEST

Test voltage Term. / Term.	UT/T	1.800 VDC, 10s
Test voltage Term. / Casing	UT/C	4.600 VAC, 10s

Measurement of capacitance  
Measurement of loss factor

### OPERATING TEMPERATURE

Minimum ambient temp.	T <sub>min</sub>	-40 °C
Maximum ambient temp.	T <sub>max</sub>	+85 °C

### STORAGE TEMPERATURE

Minimum temperature	T <sub>min</sub>	-45 °C
Maximum temperature	T <sub>max</sub>	+85 °C

### TECHNOLOGY

Dielectric	Polypropylene, metallized; SH
Filling material	N2, resin dry

### BUSHINGS

Type	M8
Flash over distance (T/C)	17 mm
Creepage distance (T/C)	17 mm
Flash over distance (T/T)	16 mm

### DESIGN DATA

Dimensions (dia*H)	84*125 mm
Pitch-width (A)	32 mm
Drawing	20-B-053
Weight	0,8 kg
Casing material	Aluminium
Fuse	no
Mounting position	Every position

<b>LIFE EXPECTANCY</b>	> 100.000 h
<b>FAILURE RATE</b>	< 300 FIT

### RECOMMENDATION PART\_NO

IEC 61071  
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