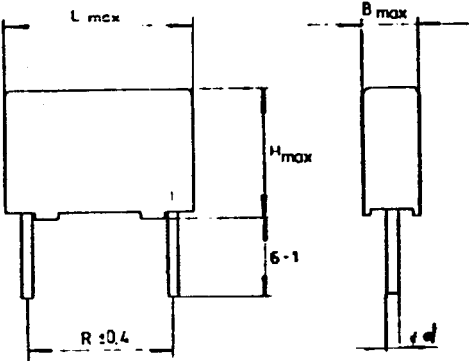


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SUOMEN SÄHKÖTEKNILLINEN STANDARDISOIMISYHDISTYS (SESKO)	CECC 30 401 - 042 
ELECTRONIC COMPONENTS OF ASSESSED QUALITY IN ACCORDANCE WITH: CECC 30 000 CECC 30 400 CECC 30 401	(Manufacturer's detail specification) AUGUST 1982 (OY EVOX AB)
DETAIL SPECIFICATION FOR FIXED METALLIZED POLYETHYLENE- TEREPHTHALATE FILM DIELECTRIC DC CAPACITORS:	
TYPICAL CONSTRUCTION: Rectangular. Non-metallic case. Rigid, radial terminations. Intended for printed circuits.	
 $d = 0.50 \pm 0.05$ mm for 5 mm lead spacing $d = 0.70 \pm 0.05$ mm for 7.5 mm lead spacing $d = 0.80 \pm 0.05$ mm for 10-27.5 mm lead spacing	QUICK REFERENCE DATA: RATED CAPACITANCE RANGE: 1000 pF to 6.8 μ F. . CAPACITANCE TOLERANCE: $\pm 20\%$, $\pm 10\%$ (other toleran- ces on request) RATED VOLTAGES DC: 63 V to 630 V CLIMATIC CATEGORY: 55/100/56 GRADE: Long life FULL ASSESSMENT
See the relevant Qualified Products List for the availability of components qualified to this detail specification.	

1. DIMENSIONS

Table 1

BOX SIZE	B MAX	H MAX	L MAX	LEAD SPACING R
501	2.5	6.5	7.2	5
502	3.5	8	7.2	5
503	4.5	9.5	7.2	5
504	5	10	7.2	5
505	6	11	7.2	5
751	4	8	10.5	7.5
752	4	9	10.5	7.5
753	5	11	10.5	7.5
754	6	12	10.5	7.5
101	4	9	13	10
102	4.5	10.5	13	10
103	5.5	11.5	13	10
151	5.5	11	18	15
152	6.5	13	18	15
153	7.5	14	18	15
154	8.5	15.5	18	15
221	6.5	15.5	25	22.5
222	7.5	16.5	25	22.5
223	8.5	18.5	25	22.5
224	10.5	20.5	25	22.5
271	11.5	21	31.5	27.5
272	14	24.5	31.5	27.5

2. SPECIFIED MOUNTING METHOD FOR VIBRATION AND BUMP TEST

The capacitors shall be pressed down firmly on to a rigid mounting surface and fixed by soldering the leads.

3. RATING CHARACTERISTICS

3.1	Grade	Long life grade
3.2	Capacitance range	0.001 μ F to 6.8 μ F
3.3	Capacitance tolerance	$\pm 20 \%$, $\pm 10 \%$ (other tolerances on request)
3.4	Rated voltage (U_R)	63 V to 630 V
3.5	Category voltage (U_C)	$0.75 \times U_R$
3.6	Rated temperature	+85 $^{\circ}$ C

3.7 Tangent of loss angle

Table 2

	$C \leq 0.1 \mu F$	$0.1 \mu F < C \leq 1 \mu F$	$C > 1 \mu F$
by 1 kHz	≤ 0.008	≤ 0.008	0.01
by 10 kHz	≤ 0.015	≤ 0.015	—
by 100 kHz	≤ 0.030	—	—

3.8 Insulation resistance

Table 3

Minimum RC product R = Insulation resistance C = Rated capacitance s		Minimum insulation resistance between the terminations M Ω		Minimum insulation resistance between the terminations and case M Ω
Rated capacitance > 0.33 μF		$\leq 0.33 \mu F$		
Rated voltage > 100 V ≤ 100 V		> 100 V	≤ 100 V	
10 000	5000	30 000	15 000	30 000

3.9 Climatic category

55/100/56

Values of capacitance and of voltage related to case sizes.

Table 4

CAPACITANCE nF	R = 5		R = 7.5				R = 10 - 27.5				
	63V	100V	63V	100V	250V	400V	63V	100V	250V	400V	630V
1	501	501	751	751	751	751					
1.5	501	501	751	751	751	751					
2.2	501	501	751	751	751	751					
3.3	501	501	751	751	751	751	101	101	101	101	101
4.7	501	501	751	751	751	751	101	101	101	101	101
6.8	501	501	751	751	751	751	101	101	101	101	101
10	501	501	751	751	751	751	101	101	101	101	101
15	501	501	751	751	751	751	101	101	101	101	101
22	501	501	751	751	751	753	101	101	101	101	103
33	501	501	751	751	751	753	101	101	101	103	151
47	501	501	751	751	751	754	101	101	101	151	152
68	501	502	751	751	753		101	101	101	151	153
100	501	502	751	751	754		101	101	151	152	221
150	502	504	751	753			101	101	151	153	223
220	502	504	751	753			101	102	151	221	223
330	504		753	754			101	151	153	223	271
470	504		753				101	151	221	224	271
680			754				151	152	221	271	
1000			754				151	153	223	271	
1500							152	221	271		
2200							153	222			
3300							221	224			
4700							222	271			
6800							223	271			

4. RELATED DOCUMENTS

Sectional specification : CECC 30 400

Generic specification : CECC 30 000

5. MARKING

1. Rated capacitance
2. Rated voltage
3. Capacitance tolerance according to IEC 62
4. Week code according to IEC 62
5. Manufacturer's type designation
6. Manufacturer's name

Capacitors with lead spacing 5 mm have marking 1., 2., 3. and 5.

Capacitors with other lead spacing have marking 1. to 6.