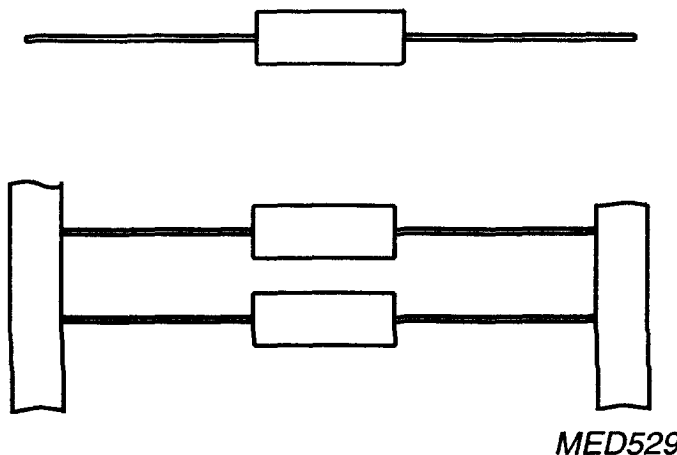


POLYSTYRENE film foil capacitors

KS 424 .. 431



KS AXIAL CAPACITORS



QUICK REFERENCE DATA

Capacitance range	47 to 39 000 pF
Capacitance tolerance	±5%, ±2%, ±1%
Rated voltage U_{Rdc}	63 V, 160 V, 250 V, 630 V
Climatic category	40/085/21
Rated temperature	85 °C
Reference specification	IEC 384-7
Stability class	Class 3

FEATURES

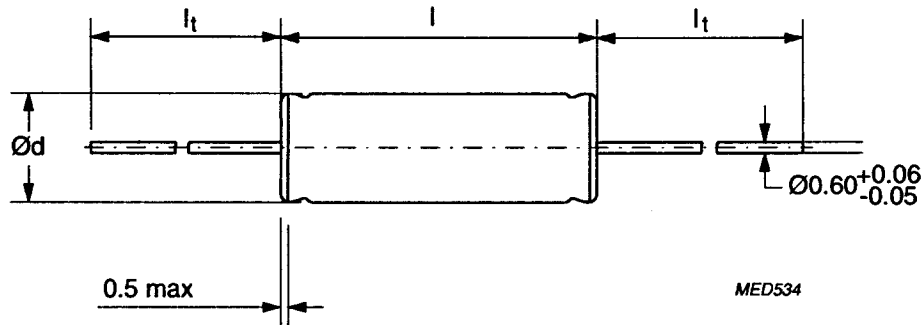
- Supplied loose in box and taped on reel.

APPLICATIONS

- For use in circuits where close tolerance, reliability and low losses are of prime importance, e.g. tuned circuits, filter networks, timing networks, etc.

POLYSTYRENE
film foil capacitors

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SPECIFIC REFERENCE DATA FOR 63 V DC

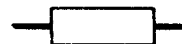
Tangent of loss angle	at 1 kHz	at 100 kHz	at 1 MHz
1000 pF < C ≤ 10 000 pF	≤5·10 ⁻⁴	≤10·10 ⁻⁴	—
10 000 pF < C ≤ 20 000 pF	≤5·10 ⁻⁴	≤15·10 ⁻⁴	—
C > 20 000 pF	≤5·10 ⁻⁴	≤25·10 ⁻⁴	—
R between terminations	>100 000 MΩ		

SMALLEST PACKING QUANTITIES (SPQ)	loose in box	taped on reel
DIMENSIONS	SPQ	SPQ
3.8 x 11.0	400	3000
4.0 x 11.0	400	2500
4.5 x 11.0	300	2500
5.0 x 11.0	250	1500
5.0 x 15.0	300	1500
5.5 x 15.0	250	1500
6.0 x 15.0	250	1500
6.5 x 15.0	200	1000
7.0 x 15.0	150	1000
7.5 x 15.0	150	1000
8.0 x 15.0	150	1000

POLYSTYRENE

film foil capacitors

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 $U_{Rdc} = 63 V$ $U_{Rac} = 25 V$

loose and taped

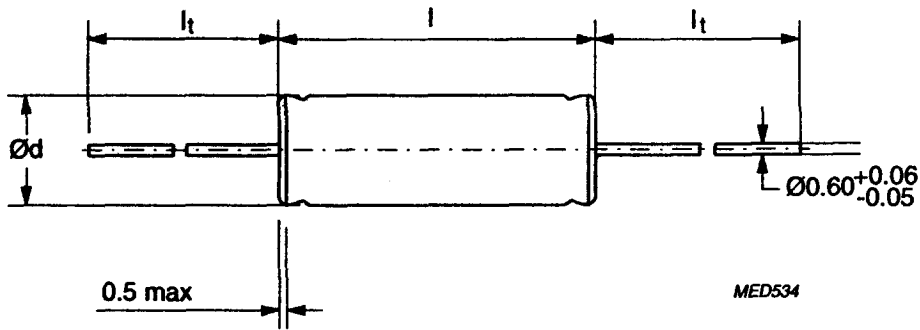
Cap. (E-24) (pF) *	$d_{max} \times l_{max}$ (mm)	mass (g)	CATALOGUE NUMBER					
			2222 424			2222 428		
			loose in box			taped on reel		
			C-tol $\pm 5\%$	C-tol $\pm 2\%$	C-tol $\pm 1\%$	C-tol $\pm 5\%$	C-tol $\pm 2\%$	C-tol $\pm 1\%$
$l_t = 30 \text{ mm}$								
2000	3.8 x 11.0	0.3	22002	32002	42002	62002	72002	82002
2200			22202	32202	42202	62202	72202	82202
2400			22402	32402	42402	62402	72402	82402
2700	4.0 X 11.0	0.4	22702	32702	42702	62702	72702	82702
3000			23002	33002	43002	63002	73002	83002
3300			23302	33302	43302	63302	73302	83302
3600			23602	33602	43602	63602	73602	83602
3900			23902	33902	43902	63902	73902	83902
4300	4.5 x 11.0	0.5	24302	34302	44302	64302	74302	84302
4700			24702	34702	44702	64702	74702	84702
5100			25102	35102	45102	65102	75102	85102
5600			25602	35602	45602	65602	75602	85602
6200	5.0 x 11.0	0.6	26202	36202	46202	66202	76202	86202
6800			26802	36802	46802	66802	76802	86802
$l_t = 28 \text{ mm}$								
7500	5.0 x 15.0	0.6	27502	37502	47502	67502	77502	87502
8200			28202	38202	48202	68202	78202	88202
9100			29102	39102	49102	69102	79102	89102
10000			21003	31003	41003	61003	71003	81003
11000	5.5 x 15.0	0.8	21103	31103	41103	61103	71103	81103
12000			21203	31203	41203	61203	71203	81203
13000			21303	31303	41303	61303	71303	81303
15000			21503	31503	41503	61503	71503	81503
16000	6.0 x 15.0	1.1	21603	31603	41603	61603	71603	81603
18000			21803	31803	41803	61803	71803	81803
20000			22003	32003	42003	62003	72003	82003
22000	6.5 x 15.0	1.3	22203	32203	42203	62203	72203	82203
24000			22403	32403	42403	62403	72403	82403
27000	7.0 x 15.0	1.5	22703	32703	42703	62703	72703	82703
30000			23003	33003	43003	63003	73003	83003
33000	7.5 x 15.0	1.9	23303	33303	43303	63303	73303	83303
36000			23603	33603	43603	63603	73603	83603
39000	8.0 x 15.0	2.0	23903	33903	43903	63903	73903	83903

* Besides the values of the E24-series as quoted, intermediate values of the E48-series (with a tolerance $\pm 2\%$ or $\pm 1\%$) and of the E96-series (with a tolerance $\pm 1\%$) are available. The specifications of these intermediate values are equal to the specifications of the next higher value of the E24-series.

On special request, these capacitors are also available in lacquered version. (See table composition of catalogue numbers for lacquered versions).

POLYSTYRENE
film foil capacitors

KS 425 / 429



SPECIFIC REFERENCE DATA FOR 160 V DC

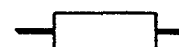
Tangent of loss angle	at 1 kHz	at 100 kHz	at 1 MHz
1000 pF < C ≤ 10 000 pF	≤5·10 ⁻⁴	≤10·10 ⁻⁴	-
10 000 pF < C ≤ 20 000 pF	≤5·10 ⁻⁴	≤15·10 ⁻⁴	-
R between terminations	>100 000 MΩ		

SMALLEST PACKING QUANTITIES (SPQ)	loose in box	taped on reel
DIMENSIONS	SPQ	SPQ
3.8 x 11.0	400	3000
4.0 x 11.0	400	2500
4.5 x 11.0	300	2500
5.0 x 11.0	250	1500
5.0 x 15.0	300	1500
5.5 x 15.0	250	1500
6.0 x 15.0	250	1500
6.5 x 15.0	200	1000
7.0 x 15.0	150	1000

POLYSTYRENE

film foil capacitors

KS 425 / 429

 $U_{Rdc} = 160 \text{ V}$ $U_{Rac} = 63 \text{ V}$

loose and taped

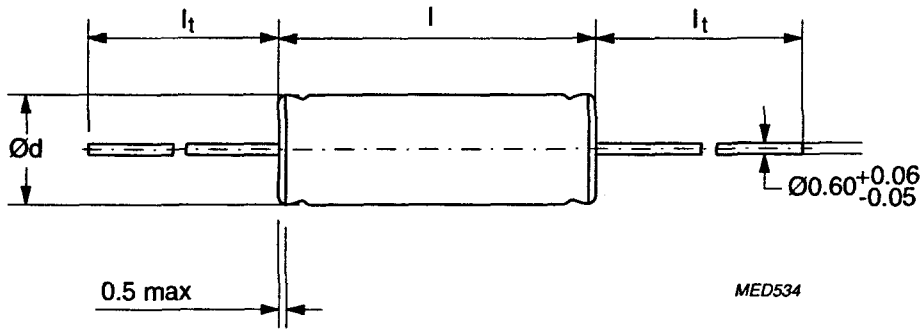
Cap. (E-24) (pF) *	$d_{max} \times l_{max}$ (mm)	mass (g)	CATALOGUE NUMBER					
			2222 425			2222 429		
			loose in box			taped on reel		
			C-tol $\pm 5\%$	C-tol $\pm 2\%$	C-tol $\pm 1\%$	C-tol $\pm 5\%$	C-tol $\pm 2\%$	C-tol $\pm 1\%$
$l_t = 30 \text{ mm}$								
1100	3.8 x 11.0	0.3	21102	31102	41102	61102	71102	81102
1200			21202	31202	41202	61202	71202	81202
1300			21302	31302	41302	61302	71302	81302
1500	4.0 x 11.0	0.4	21502	31502	41502	61502	71502	81502
1600			21602	31602	41602	61602	71602	81602
1800			21802	31802	41802	61802	71802	81802
2000	4.5 x 11.0	0.4	22002	32002	42002	62002	72002	82002
2200			22202	32202	42202	62202	72202	82202
2400		0.5	22402	32402	42402	62402	72402	82402
2700			22702	32702	42702	62702	72702	82702
3000	5.0 x 11.0	0.5	23002	33002	43002	63002	73002	83002
3300			23302	33302	43302	63302	73302	83302
3600		0.6	23602	33602	43602	63602	73602	83602
3900			23902	33902	43902	63902	73902	83902
$l_t = 28 \text{ mm}$								
4300	5.0 x 15.0	0.6	24302	34302	44302	64302	74302	84302
4700			24702	34702	44702	64702	74702	84702
5100			25102	35102	45102	65102	75102	85102
5600			25602	35602	45602	65602	75602	85602
6200			26202	36202	46202	66202	76202	86202
6800	5.5 x 15.0	0.8	26802	36802	46802	66802	76802	86802
7500			27502	37502	47502	67502	77502	87502
8200	6.0 x 15.0	0.9	28202	38202	48202	68202	78202	88202
9100			29102	39102	49102	69102	79102	89102
10000			21003	31003	41003	61003	71003	81003
11000	6.5 x 15.0	1.1	21103	31103	41103	61103	71103	81103
12000			21203	31203	41203	61203	71203	81203
13000			21303	31303	41303	61303	71303	81303
15000	7.0 x 15.0	1.4	21503	31503	41503	61503	71503	81503
16000			21603	31603	41603	61603	71603	81603

* Besides the values of the E24-series as quoted, intermediate values of the E48-series (with a tolerance $\pm 2\%$ or $\pm 1\%$) and of the E96-series (with a tolerance $\pm 1\%$) are available. The specifications of these intermediate values are equal to the specifications of the next higher value of the E24-series.

On special request, these capacitors are also available in lacquered version. (See table composition of catalogue numbers for lacquered versions).

**POLYSTYRENE
film foil capacitors**

KS 426 / 430



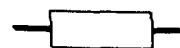
SPECIFIC REFERENCE DATA FOR 250 V DC

Tangent of loss angle	at 1 kHz	at 100 kHz	at 1 MHz
C ≤ 1000 pF	≤5·10 ⁻⁴	-	≤10·10 ⁻⁴
1000 pF < C ≤ 10 000 pF	≤5·10 ⁻⁴	≤10·10 ⁻⁴	-
10 000 pF < C ≤ 20 000 pF	≤5·10 ⁻⁴	≤15·10 ⁻⁴	-
R between terminations	>100 000 MΩ		

SMALLEST PACKING QUANTITIES (SPQ)	loose in box	taped on reel
DIMENSIONS	SPQ	SPQ
3.8 x 11.0	400	3000
4.0 x 11.0	400	2500
4.5 x 11.0	300	2500
5.0 x 11.0	250	1500
5.0 x 15.0	300	1500
5.5 x 15.0	250	1500
6.0 x 15.0	250	1500
6.5 x 15.0	200	1000
7.0 x 15.0	150	1000
7.5 x 15.0	150	1000

POLYSTYRENE film foil capacitors

KS 426 / 430

 $U_{Rdc} = 250 \text{ V}$ $U_{Rac} = 125 \text{ V}$

loose and taped

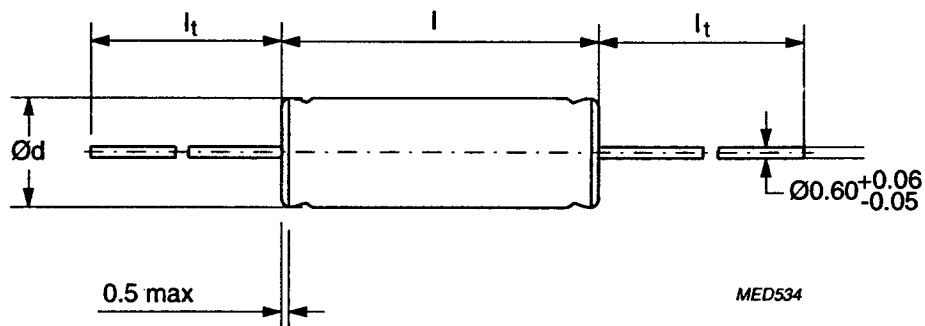
Cap. (E-24) (pF) *	$d_{max} \times l_{max}$ (mm)	mass (g)	CATALOGUE NUMBER					
			2222 426			2222 430		
			loose in box			taped on reel		
			C-tol $\pm 5\%$	C-tol $\pm 2\%$	C-tol $\pm 1\%$	C-tol $\pm 5\%$	C-tol $\pm 2\%$	C-tol $\pm 1\%$
$l_t = 30 \text{ mm}$								
560	3.8 x 11.0	0.3	25601	35601	45601	65601	75601	85601
620			26201	36201	46201	66201	76201	86201
680			26801	36801	46801	66801	76801	86801
750	4.0 x 11.0	0.3	27501	37501	47501	67501	77501	87501
820			28201	38201	48201	68201	78201	88201
910			29101	39101	49101	69101	79101	89101
1000			21002	31002	41002	61002	71002	81002
1100	4.5 x 11.0	0.4	21102	31102	41102	61102	71102	81102
1200			21202	31202	41202	61202	71202	81202
1300			21302	31302	41302	61302	71302	81302
1500			21502	31502	41502	61502	71502	81502
1600	5.0 x 11.0	0.5	21602	31602	41602	61602	71602	81602
1800			21802	31802	41802	61802	71802	81802
2000			22002	32002	42002	62002	72002	82002
2200			22202	32202	42202	62202	72202	82202
$l_t = 28 \text{ mm}$								
2400	5.0 x 15.0	0.6	22402	32402	42402	62402	72402	82402
2700			22702	32702	42702	62702	72702	82702
3000			23002	33002	43002	63002	73002	83002
3300			23302	33302	43302	63302	73302	83302
3600			23602	33602	43602	63602	73602	83602
3900			23902	33902	43902	63902	73902	83902
4300			24302	34302	44302	64302	74302	84302
4700	5.5 x 15.0	0.8	24702	34702	44702	64702	74702	84702
5100			25102	35102	45102	65102	75102	85102
5600	6.0 x 15.0	0.9	25602	35602	45602	65602	75602	85602
6200			26202	36202	46202	66202	76202	86202
6800	6.5 x 15.0	1.1	26802	36802	46802	66802	76802	86802
7500			27502	37502	47502	67502	77502	87502
8200	7.0 x 15.0	1.3	28202	38202	48202	68202	78202	88202
9100			29102	39102	49102	69102	79102	89102
10000	7.5 x 15.0	1.5	21003	31003	41003	61003	71003	81003
11000			21103	31103	41103	61103	71103	81103

* Besides the values of the E24-series as quoted, intermediate values of the E48-series (with a tolerance $\pm 2\%$ or $\pm 1\%$) and of the E96-series (with a tolerance $\pm 1\%$) are available. The specifications of these intermediate values are equal to the specifications of the next higher value of the E24-series.

On special request, these capacitors are also available in lacquered version. (See table composition of catalogue numbers for lacquered versions).

POLYSTYRENE film foil capacitors

KS 427 / 431



SPECIFIC REFERENCE DATA FOR 630 V DC

Tangent of loss angle	at 1 kHz	at 10 kHz	at 1 MHz
$C \leq 1000 \text{ pF}$	$\leq 5 \cdot 10^{-4}$	–	$\leq 10 \cdot 10^{-4}$
$1000 \text{ pF} < C \leq 10\,000 \text{ pF}$	$\leq 5 \cdot 10^{-4}$	$\leq 10 \cdot 10^{-4}$	–
R between terminations	$> 100\,000 \text{ M}\Omega$		

SMALLEST PACKING QUANTITIES (SPQ)	loose in box	taped on reel
DIMENSIONS	SPQ	SPQ
3.8 x 11.0	400	3000
4.0 x 11.0	400	2500
4.5 x 11.0	300	2500
5.0 x 11.0	250	1500
5.0 x 15.0	300	1500
5.5 x 15.0	250	1500
6.0 x 15.0	250	1500
6.5 x 15.0	200	1000
7.0 x 15.0	150	1000
7.5 x 15.0	150	1000
8.0 x 15.0	150	1000

POLYSTYRENE film foil capacitors

KS 427 / 431

 $U_{Rdc} = 630 \text{ V}$ $U_{Rac} = 250 \text{ V}$

loose and taped

Cap. (E-24) (pF) *	$d_{max} \times l_{max}$ (mm)	mass (g)	CATALOGUE NUMBER							
			2222 427			2222 431				
			loose in box			taped on reel				
			C-tol $\pm 5\%$	C-tol $\pm 2\%$	C-tol $\pm 1\%$	C-tol $\pm 5\%$	C-tol $\pm 2\%$	C-tol $\pm 1\%$		
$l_t = 30 \text{ mm}$										
47	3.8 x 11.0	0.2	24709	34709	44709	64709	74709	84709		
51			25109	35109	45109	65109	75109	85109		
56			25609	35609	45609	65609	75609	85609		
62			26209	36209	46209	66209	76209	86209		
68			26809	36809	46809	66809	76809	86809		
75			27509	37509	47509	67509	77509	87509		
82			28209	38209	48209	68209	78209	88209		
91			29109	39109	49109	69109	79109	89109		
100			21001	31001	41001	61001	71001	81001		
110			21101	31101	41101	61101	71101	81101		
120			21201	31201	41201	61201	71201	81201		
130			21301	31301	41301	61301	71301	81301		
150			21501	31501	41501	61501	71501	81501		
160			21601	31601	41601	61601	71601	81601		
180			21801	31801	41801	61801	71801	81801		
200			22001	32001	42001	62001	72001	82001		
220			22201	32201	42201	62201	72201	82201		
240			4.0 x 11.0	0.3	22401	32401	42401	62401	72401	82401
270					22701	32701	42701	62701	72701	82701
300	23001	33001			43001	63001	73001	83001		
330	4.0 x 11.0	0.3	23301	33301	43301	63301	73301	83301		
360			23601	33601	43601	63601	73601	83601		
390			23901	33901	43901	63901	73901	83901		
430			24301	34301	44301	64301	74301	84301		
470	4.5 x 11.0	0.3	24701	34701	44701	64701	74701	84701		
510			25101	35101	45101	65101	75101	85101		
560			25601	35601	45601	65601	75601	85601		
620			26201	36201	46201	66201	76201	86201		
680			26801	36801	46801	66801	76801	86801		
750	5.0 x 11.0	0.4	27501	37501	47501	67501	77501	87501		
820			28201	38201	48201	68201	78201	88201		
910			29101	39101	49101	69101	79101	89101		
1000			21002	31002	41002	61002	71002	81002		
1100			21102	31102	41102	61102	71102	81102		
1200			21202	31202	41202	61202	71202	81202		

* Besides the values of the E24-series as quoted, intermediate values of the E48-series (with a tolerance $\pm 2\%$ or $\pm 1\%$) and the E96-series (with a tolerance $\pm 1\%$) are available. The specifications of these intermediate values are equal to the specifications of the next higher value of the E24-series.

On special request, these capacitors are also available in lacquered version. (See table composition of catalogue numbers for lacquered versions).

POLYSTYRENE film foil capacitors

KS 427 / 431

 $U_{Rdc} = 630 \text{ V}$ $U_{Rac} = 250 \text{ V}$

loose and taped

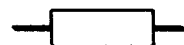
Cap. (E-24) (pF) *	$d_{max} \times l_{max}$ (mm)	mass (g)	CATALOGUE NUMBER					
			2222 427			2222 431		
			loose in box			taped on reel		
			C-tol $\pm 5\%$	C-tol $\pm 2\%$	C-tol $\pm 1\%$	C-tol $\pm 5\%$	C-tol $\pm 2\%$	C-tol $\pm 1\%$
$l_t = 28 \text{ mm}$								
1300	5.0 x 15.0	0.6	21302	31302	41302	61302	71302	81302
1500			21502	31502	41502	61502	71502	81502
1600			21602	31602	41602	61602	71602	81602
1800	5.5 x 15.0	0.8	21802	31802	41802	61802	71802	81802
2000			22002	32002	42002	62002	72002	82002
2200			22202	32202	42202	62202	72202	82202
2400			22402	32402	42402	62402	72402	82402
2700	6.0 x 15.0	1.1	22702	32702	42702	62702	72702	82702
3000	6.5 x 15.0	1.1	23002	33002	43002	63002	73002	83002
3300			23302	33302	43302	63302	73302	83302
3600	7.0 x 15.0	1.4	23602	33602	43602	63602	73602	83602
3900			23902	33902	43902	63902	73902	83902
4300	7.5 x 15.0	1.7	24302	34302	44302	64302	74302	84302
4700			24702	34702	44702	64702	74702	84702
5100	8.0 x 15.0	1.7	25102	35102	45102	65102	75102	85102
5600			25602	35602	45602	65602	75602	85602

* Besides the values of the E24-series as quoted, intermediate values of the E48-series (with a tolerance $\pm 2\%$ or $\pm 1\%$) and the E96-series (with a tolerance $\pm 1\%$) are available. The specifications of these intermediate values are equal to the specifications of the next higher value of the E24-series.

On special request, these capacitors are also available in lacquered version. (See table composition of catalogue numbers for lacquered versions).

POLYSTYRENE film foil capacitors

KS 424..431



COMPOSITION OF CATALOGUE NUMBERS FOR LACQUERED VERSIONS

63 V	5% 2% 1%	loose in box	2222 424 6.... 2222 424 7.... 2222 424 8....
	5% 2% 1%	taped on reel	2222 428 2.... 2222 428 3.... 2222 428 4....
160 V	5% 2% 1%	loose in box	2222 425 6.... 2222 425 7.... 2222 425 8....
	5% 2% 1%	taped on reel	2222 429 2.... 2222 429 3.... 2222 429 4....
250 V	5% 2% 1%	loose in box	2222 426 6.... 2222 426 7.... 2222 426 8....
	5% 2% 1%	taped on reel	2222 430 2.... 2222 430 3.... 2222 430 4....
630 V	5% 2% 1%	loose in box	2222 427 6.... 2222 427 7.... 2222 427 8....
	5% 2% 1%	taped on reel	2222 431 2.... 2222 431 3.... 2222 431 4....

POLYSTYRENE film foil capacitors

KS 424 .. 431

RATINGS AND CHARACTERISTICS

Unless otherwise specified all electrical values apply to an ambient temperature of 23 ± 1 °C, an atmospheric pressure of 86 to 106 kPa and a relative humidity of $50 \pm 2\%$.

CAPACITANCE

Capacitance tolerance: $\pm 5\%$, $\pm 2\%$ and $\pm 1\%$

Temperature coefficient: $-(125 \pm 60) \times 10^{-6}/^{\circ}\text{K}$

Capacitance dependence on frequency: none between 100 Hz and 1 MHz.

TEMPERATURE

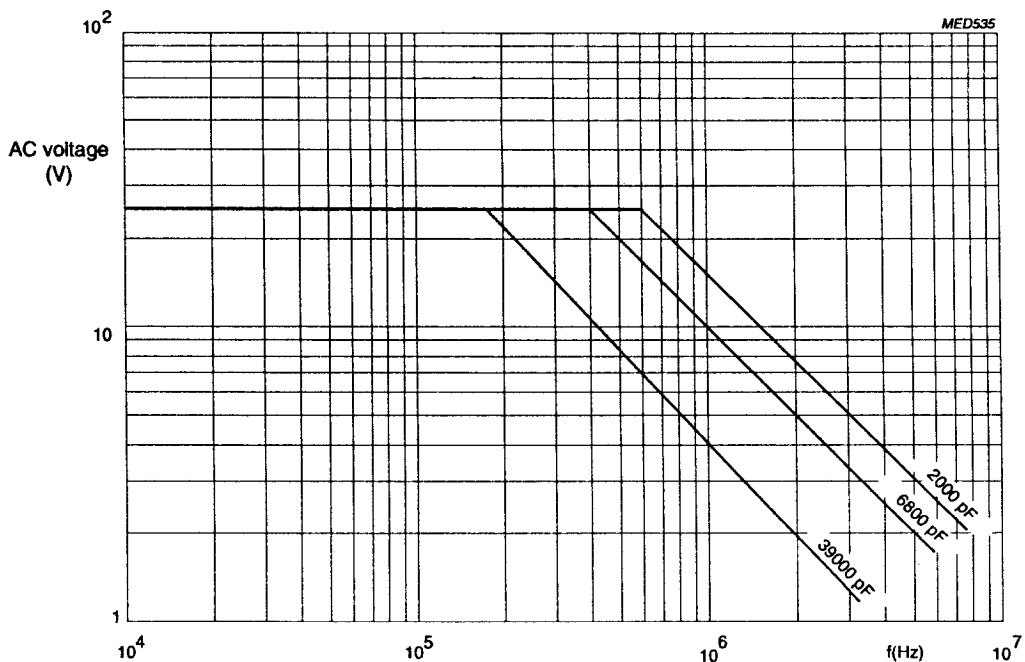
Storage temperature: $T_{\text{stg}} = -25$ to $+40$ °C with RH maximum 80 % without condensation.

VOLTAGE

Category voltage: $U_c = U_{\text{Rdc}}$

Test voltage between terminations: $2 \times U_{\text{Rdc}}$

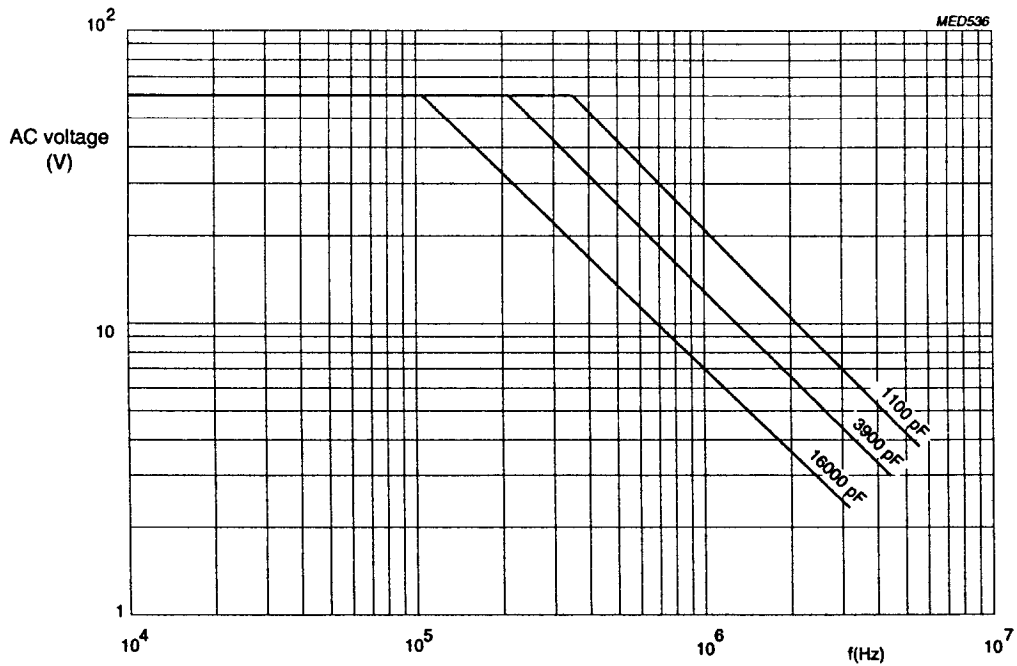
Maximum RMS voltage (sinewave) as a function of frequency for $T_{\text{amb}} \leq 70$ °C (see graphs below)



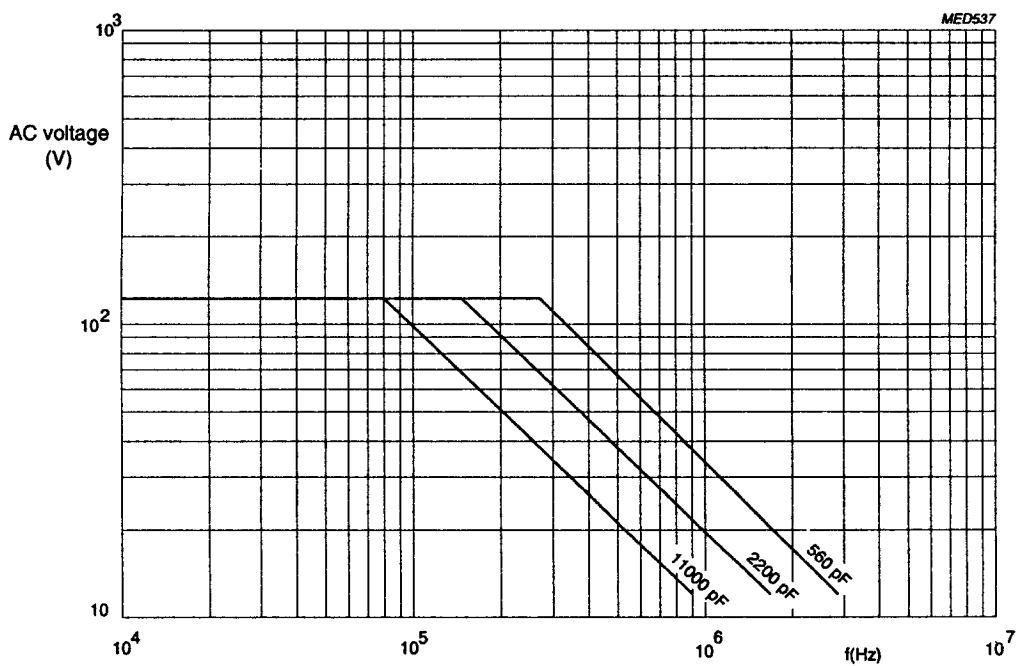
Maximum AC voltage (RMS value) as a function of frequency at $T_{\text{amb}} \leq 70$ °C, for 63 V version.

**POLYSTYRENE
film foil capacitors**

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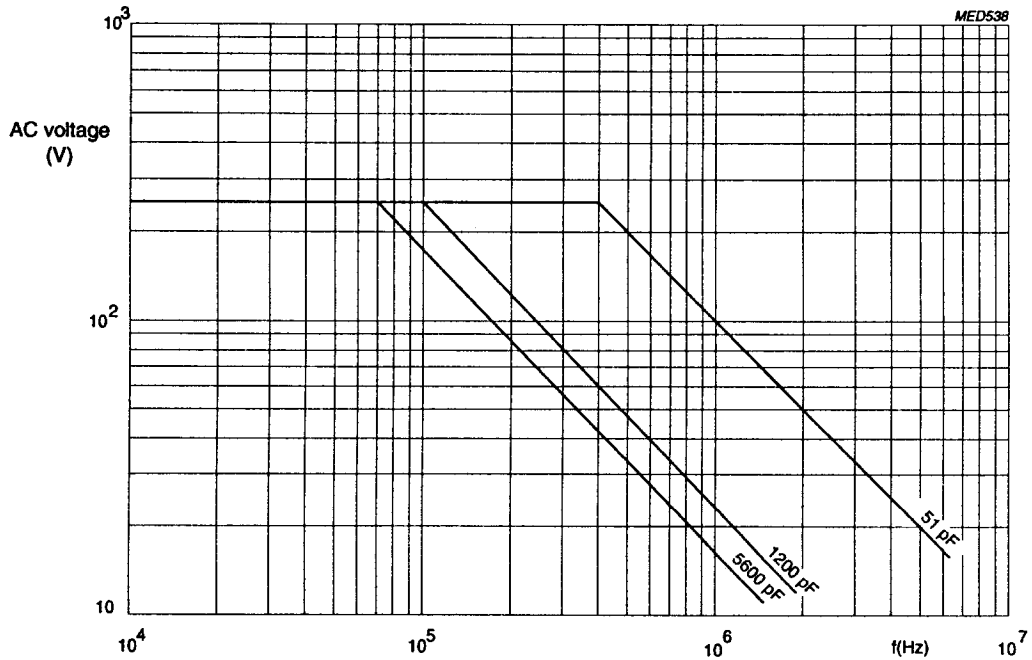
Maximum AC voltage (RMS value) as a function of frequency at $T_{amb} \leq 70 \text{ }^\circ\text{C}$, for 160 V version.



Maximum AC voltage (RMS value) as a function of frequency at $T_{amb} \leq 70 \text{ }^\circ\text{C}$, for 250 V version.

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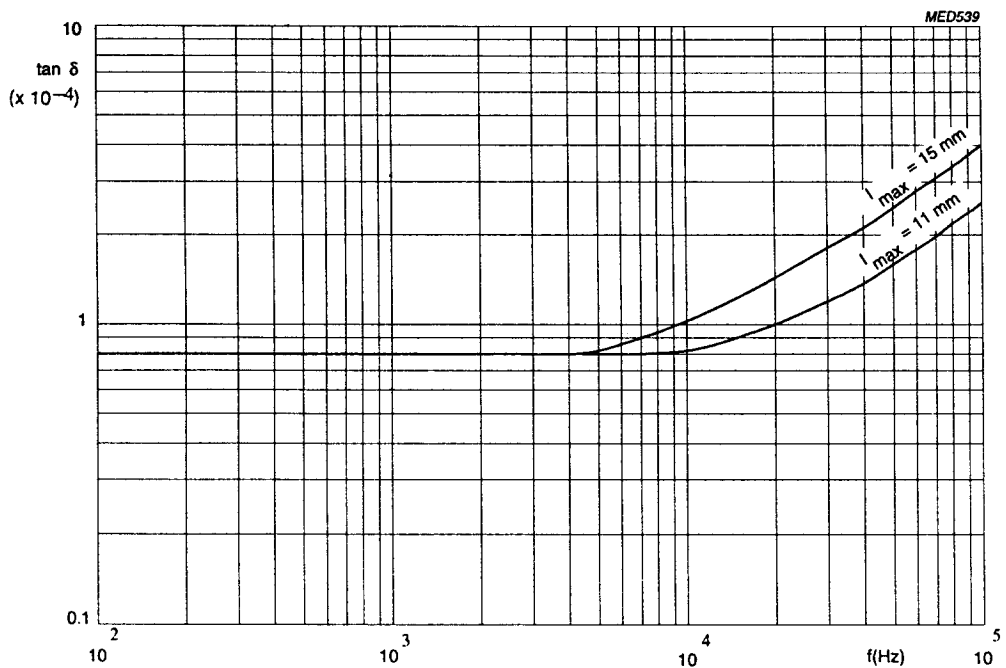
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Maximum AC voltage (RMS value) as a function of frequency at $T_{amb} \leq 70 \text{ }^\circ\text{C}$, for 630 V version.

TANGENT OF LOSS ANGLE

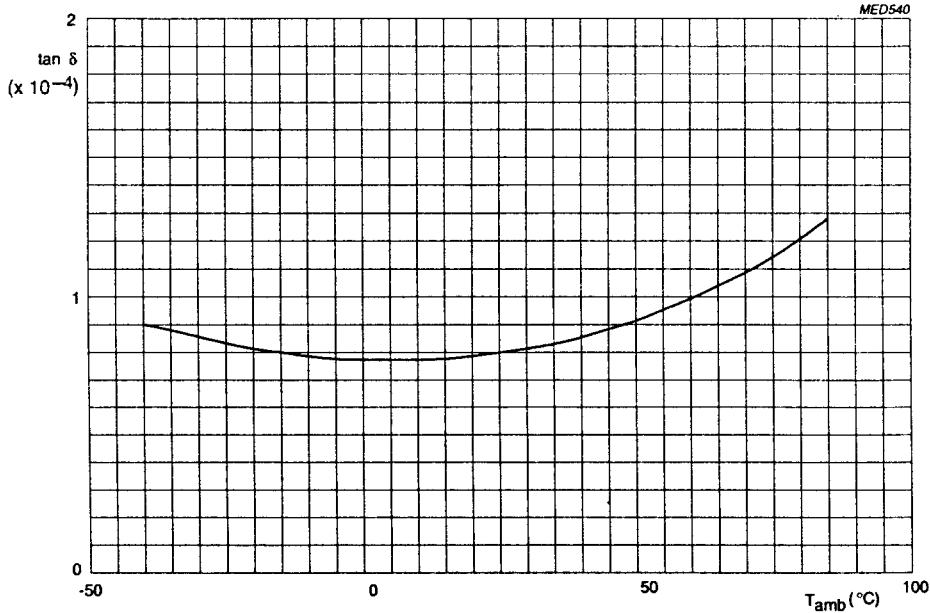
For maximum values and measuring frequencies: see specific reference data.



Tan-delta as a function of frequency; typical curves.

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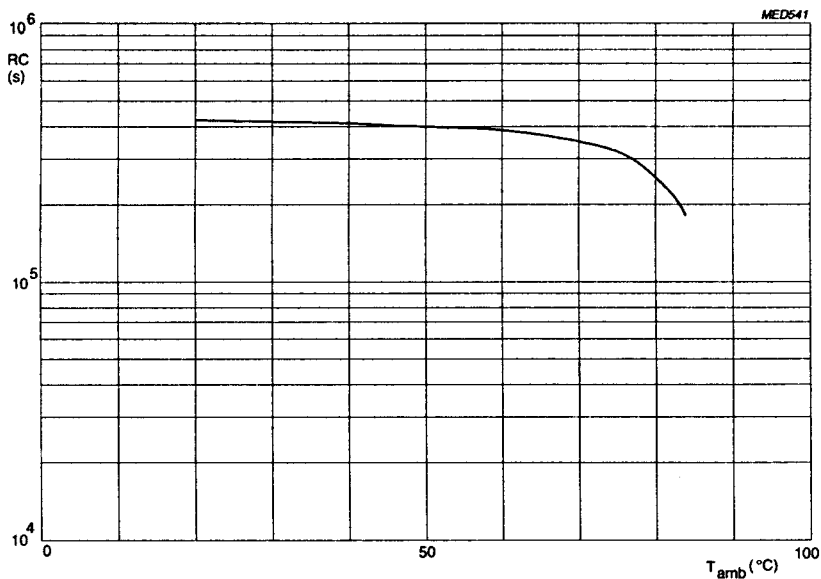
Tan-delta as a function of ambient free air temperature; typical curve.

INSULATION RESISTANCE

The insulation resistance is measured after a voltage has been applied for 1 minute ± 5 seconds, the voltage being 10 V ± 1 V for the 63 V version, 100 V ± 15 V for the 160 V and 250 V versions and 500 V ± 50 V for the 630 V version.

R between terminations: for value see specific reference data

R between interconnected terminations and case (foil method) $> 100\,000\text{ M}\Omega$



RC-product as a function of ambient free air temperature; typical curve.

INDUCTANCE

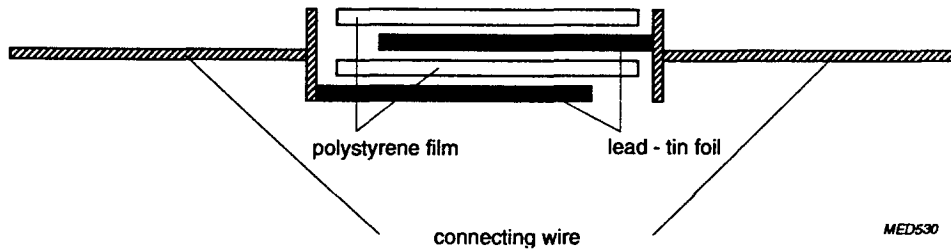
$\leq 10\text{ nH/cm}$ lead and capacitor length.

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GENERAL DATA

CONSTRUCTION



DESCRIPTION

Low-inductive wound cell of metal foil and a polystyrene film

Axial leads, solder-coated

The capacitors are available in a naked version or on special request with a blue epoxy lacquer.

MOUNTING

Normal use

The capacitors are suitable for vertical or horizontal mounting on printed-wiring boards.

The capacitors packed in bandoliers are designed for mounting on printed-wiring boards by means of automatic insertion machines. When soldering, the body temperature shall not exceed 100 °C.

Soldering conditions

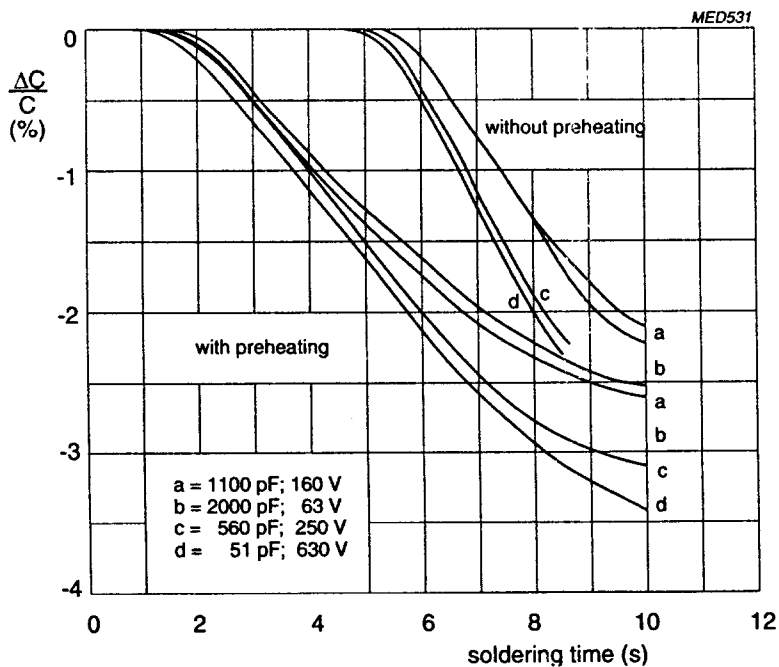
The capacitance stability is dependent on the body dimensions and a function of soldering temperature, soldering time, preheating, mounting method, mounting height and mounting pitch.

In all of the following graphs the solder bath temperature is 260 ± 5 °C.

The next figure shows the typical behaviour of $\Delta C/C$ with and without preheating as a function of soldering time. Preheating temperature is 80 °C (duration 1 hour). Mounting is directly on to the printed-wiring board.

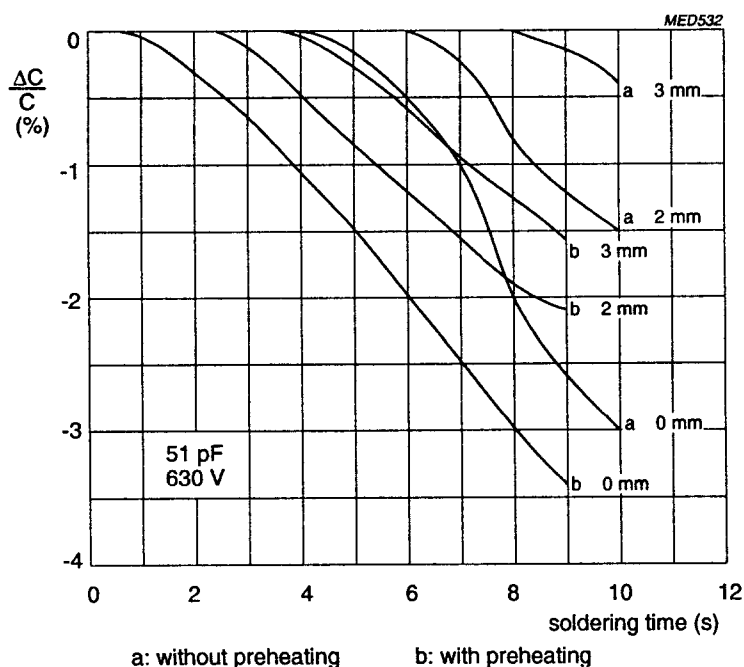
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Typical effect on $\Delta C/C$ with and without preheating (worst case mounting).

The figure below shows the typical effect of higher mounting and minimum pitch, with and without preheating.



Typical effect of mounting height with and without preheating.

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MARKING

Product marking

The capacitors are marked with black ink with the following information :

- Rated capacitance in code according to IEC 62
- Tolerance on rated capacitance F: $\pm 1\%$ G: $\pm 2\%$ J: $\pm 5\%$
- Rated (DC) voltage (e.g. 63 V)
- Code for diëlectric material (KS)
- Production date code according to IEC 62, clause 5

Example: 9n1 8n2
 G 63
 KS D2

PACKAGE MARKING

The package containing the capacitors is marked as shown.

PHILIPS COMPONENTS

MADE IN BELGIUM

PS FILM FOIL CAPACITORS

KS AX SLEEVED CAP

2000pF $\pm 1\%$ 63V= 40/070/21

ORIG A170 RPC HQ



TYPE KS 424



QTY 2400 DATE 9238



CODEND 2222 424 42002

LINE	MARKING EXPLANATION
1	Manufacturer's name
2	Country of origin
3	Sub-family
4	Type description
5	Capacitance value, tolerance, voltage and climatic category (IEC)
6	-
7	Preference origin code: A Country of origin in code: 170 (Belgium) Responsible production centre: HQ (Roeselare) WO: work order
8	Product type description
9	Quantity and production period, year and week code
10	Product code (12NC)