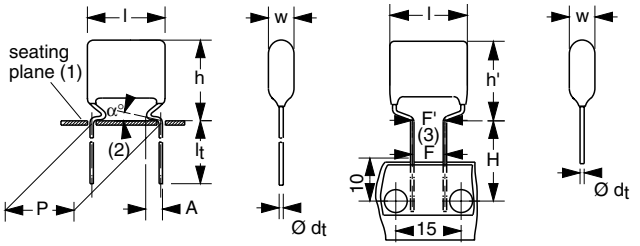
KP/MKP 375

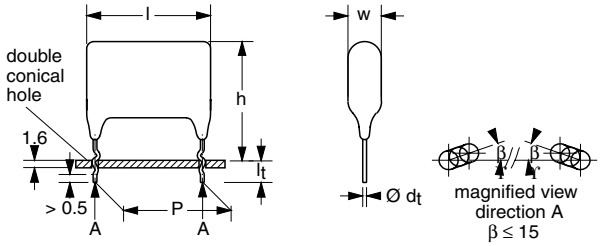
Vishay BCcomponents

AC and Pulse Polypropylene Film Capacitors KP/MKP
Radial Epoxy Lacquered Type



Dimensions in mm

(1) Hole ∅1.3 for d_t = 0.8 mm
(2) $0 \le \alpha < 50°$
(3) $|F - F'| < 0.3$ mm
F = 7.5 + 0.6/- 0.1 mm
(4) A = 2.5 + 1.5/- 0.5 mm



Dimensions in mm

APPLICATIONS

Where high currents and steep pulses occur. For deflection circuits in television receivers and monitor sets.

MARKING

C-value; tolerance; rated voltage; manufacturer's type designation; code for dielectric material; code for monitor type; manufacturer's emblem

DIELECTRIC

Polypropylene film

ELECTRODES

Metallized film and aluminum foil

COATING

Flame retardant epoxy material (UL-class 94 V-0)

CONSTRUCTION

Internal serial construction

FEATURES

10 to 27.5 mm pitch. Supplied loose (including lock lead versions) and taped. Bent back version for automatic insertion available.

Pb-free

e3

RoHS COMPLIANT

LEADS

Tinned wire

CAPACITANCE RANGE (E24 SERIES)

0.1 to 270 nF

CAPACITANCE TOLERANCE

± 5 %; ± 3.5 %

RATED (DC) VOLTAGE

630 V; 1000 V; 1600 V; 2000 V; 2500 V

RATED (AC) VOLTAGE

300 V; 400 V; 500 V; 600 V; 600 V

RATED PEAK-TO-PEAK VOLTAGE

850 V; 1100 V; 1400 V; 1700 V; 1700 V

CLIMATIC CATEGORY

55/105/56

RATED TEMPERATURE

85 °C

MAXIMUM APPLICATION TEMPERATURE

105 °C

REFERENCE SPECIFICATIONS

IEC 60384-17

PERFORMANCE GRADE

for C > 5.6 nF: grade 1 (long life)

for C ≤ 5.6 nF: grade 2

STABILITY GRADE

Grade 2

DETAIL SPECIFICATION

For more detailed data and test requirements contact:
filmcaps.roeselare@vishay.com

AC and Pulse Polypropylene Film Capacitors KP/MKP Radial Epoxy Lacquered Type

COMPOSITION OF CATALOG NUMBER

TYPE AND PITCHES	
375	10.0/7.5 mm
	15.0/7.5 mm
	10.0 mm
	15.0 mm
	22.5 mm
	27.5 mm

CAPACITANCE

(numerically; but not for lock lead)

MULTIPLIER (nF)	
0.01	1
0.1	2
1	3
10	4

Example:

104 = 10 x 10 = 100 nF

2222	375	XX	XX	X
BFC2*	375	XX	XX	X

* Use this partnumber for those with access to the Vishay's SAP system and Partners website within the Americas

TYPE	PACKAGING	LEAD CONFIGURATION	C-TOL	630 V	1000 V	1600 V	2000 V	1600 V monitor type	2000 V monitor type	2500 V monitor type
				PREFERRED TYPES						
375	loose in box	lead length 5.0 ± 1.0 mm	± 5 %	14	24	34	44	64	74	84
		lock lead 4.0 + 1.0/- 0.5 mm	± 5 %	90	90	90	90	90	90	90
	taped on reel (bent back)	H = 16.0 mm; P_0 = 15.0 mm; reel diameter 500 mm	± 5 %	16	26	36	46	66	–	–
				dimensions of this code numbers stays between brackets						
				ON REQUEST						
375	loose in box	lead length 5.0 ± 1.0 mm	± 3.5 %	15	25	35	45	65	75	85
		lead length 3.5 ± 0.5 mm	± 5 %	10	20	30	40	60	70	80
			± 3.5 %	11	21	31	41	61	71	81
	taped on reel	H = 16.0 mm; P_0 = 12.7 mm; reel diameter = 500 mm	± 5 %	12	22	32	42	62	72	82
			± 3.5 %	13	23	33	43	63	73	83
	taped on reel (bent back)	H = 16.0 mm; P_0 = 15.0 mm; reel diameter = 500 mm	± 3.5 %	17	27	37	47	67	–	–
				dimensions of this code numbers stays between brackets						
		H = 16.0 mm; P_0 = 15.0 mm; reel diameter = 356 mm	± 5 %	18	28	38	48	68	–	–

SPECIFIC REFERENCE DATA (630 VDC)

DESCRIPTION	VALUE	
Tangent of loss angle:	at 10 kHz	at 100 kHz
Pitch = 10 mm, 15 mm and 7.5 mm (bent back)	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
Pitch = 22.5 mm	$\leq 8 \times 10^{-4}$	$\leq 15 \times 10^{-4}$
Pitch = 27.5 mm	$\leq 8 \times 10^{-4}$	$\leq 20 \times 10^{-4}$
Rated voltage pulse slope (dU/dt):		
Pitch = 10 mm	15000 V/µs	
Pitch = 15 mm and 7.5 mm (bent back)	8000 V/µs	
Pitch = 22.5 mm	2800 V/µs	
Pitch = 27.5 mm	1900 V/µs	
R between leads at 500 V; 1 minute	> 100000 MΩ	
R between interconnected leads and case; 500 V; 1 minute	> 100000 MΩ	
Ionization (AC) voltage (typical value) at 50 pC peak discharge	> 400 V	
Withstanding (DC) voltage (cut off current 10 mA); rise time 100 V/s	1008 V; 1 minute	
Withstanding (DC) voltage between leads and case	2840 V; 1 minute	

U_{Rdc} = 630 V; U_{Rac} = 300 V; U_{p-p} = 850 V (standard)

			CATALOG NUMBER 2222 375 ..... AND PACKAGING					
			LOOSE IN BOX		REEL			
	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	l_t = 5.0 ± 1.0 mm	all leads	REEL ∅ 500 mm		REEL ∅ 356 mm	REEL ∅ 500 mm
			C-tol = ± 5 %		C-tol = ± 5 %			
			last 5 digits of catalog number	SPQ	last 5 digits of catalog number	SPQ	SPQ	SPQ
C (pF)	**pitch = 10.0 ± 0.4 mm; d_t = 0.60 ± 0.06 mm**				**pitch = 7.5 mm (bent back)**			**pitch = 10.0 mm**
680	5.0 × 13.0 × 14.5	0.65	14681	2000				1200
750		0.65	14751					
820	5.5 × 13.5 × 14.5	0.70	14821	2000				1100
910		0.70	14911					
1000		0.70	14102					
1100		0.75	14112					
1200		0.75	14122					
1300		0.75	14132					
1500		0.80	14152					
1600		0.85	14162					
1800	6.0 × 14.0 × 14.5	0.80	14182	1750				1000
2000		0.85	14202					
2200		0.90	14222					
2400		1.0	14242					
2700	6.5 × 14.5 × 14.5	1.1	14272	1500				900
C (pF)	**pitch = 15.0 ± 0.4 mm; d_t = 0.80 ± 0.08 mm**				**pitch = 7.5 mm (bent back)**			**pitch = 15.0 mm**
3000	5.0 × 14.0 (15.5) × 18.5	1.0	14302	2000	16302	1000	550	1200
3300			14332		16332			
3600	5.5 × 14.5 (16.0) × 18.5	1.1	14362	2000	16362	900	500	1100
3900			14392		16392			
4300			14432		16432			
4700			14472		16472			
5100			14512		16512			
5600			14562		16562			
6200	6.0 × 15.0 (16.5) × 18.5	1.2	14622	2000	16622	800	450	1000
6800			14682		16682			
7500			14752		16752			
8200			14822		16822			
9100			14912		16912			
10000			14103		16103			
11000			14113		16113			
12000			14123		16123			
13000			14133		16133			
15000			14153		16153			
16000			14163		16163			
18000	6.5 × 15.5 (17.0) × 18.5	1.3	14183	1500	16183	750	400	900
20000			14203		16203			
22000	7.0 × 16.0 (17.5) × 18.5	1.5	14223	1500	16223	700	400	800
24000	7.5 × 16.5 (18.0) × 18.5	1.6	14243	1250	16243	650	350	800
27000	8.0 × 17.0 (18.5) × 18.5	1.9	14273	1250	16273	600	350	750
30000			14303		16303			
33000	8.5 × 17.5 (19.0) × 18.5	2.0	14333	1000	16333	550	300	700
36000	9.5 × 18.5 (20.0) × 18.5	2.3	on request	900	on request	500	300	600
39000								

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING					
			LOOSE IN BOX		REEL			
			l_t = 5.0 ± 1.0 mm	all leads	REEL ∅ 500 mm		REEL ∅ 356 mm	REEL ∅ 500 mm
			C-tol = ± 5 %		C-tol = ± 5 %			
			last 5 digits of catalog number	SPQ	last 5 digits of catalog number	SPQ	SPQ	SPQ
C (µF)	**pitch = 22.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm**				**pitch = 7.5 mm (bent back)**			**pitch = 22.5 mm**
0.036	7.0 × 20.0 × 26.0	2.7	14363	650				550
0.039			14393					
0.043			14433					
0.047			14473					
0.051			14513					
0.056			14563					
0.062			14623					
0.068	7.5 × 20.5 × 26.0	3.0	14683	600				500
0.075	8.0 × 21.0 × 26.0	3.3	14753	550				500
0.082			14823					
0.091	8.5 × 21.5 × 26.0	3.8	14913	500				450
0.1	9.0 × 22.0 × 26.0	4.0	14104	450				450
0.11	9.5 × 22.5 × 26.0	4.3	14114	400				400
0.12	10.0 × 23.0 × 26.0	4.7	14124	400				400
C (µF)	**pitch = 27.5 ± 0.5 mm; d_t = 0.80 ± 0.08 mm**				**pitch = 7.5 mm (bent back)**			**pitch = 27.5 mm**
0.13	9.5 × 22.5 × 30.0	4.7	14134	500				
0.15	10.0 × 23.0 × 30.0	5.2	14154	500				
0.16	10.5 × 23.5 × 30.0	5.5	14164	450				
0.18	11.0 × 24.0 × 30.0	6.0	14184	400				
0.2	11.5 × 24.5 × 30.0	6.6	14204	400				
0.22	12.5 × 25.5 × 30.0	7.1	14224	350				
0.24	13.0 × 26.0 × 30.0	7.7	14244	300				
0.27	13.5 × 26.5 × 30.0	8.5	14274	300				

U_{Rdc} = 630 V; U_{Rac} = 300 V; U_{p-p} = 850 V (lock lead)

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING	
			LOOSE IN BOX	
			l_t = 4.0 + 1.0/- 0.5 mm	
			C-tol = ± 5 %	
			last 5 digits of catalog number	SPQ
C (pF)	**pitch = 10.0 ± 1.0 mm; d_t = 0.60 ± 0.06 mm**			
680	5.0 × 16.0 × 14.5	0.65	90308	2000
750		0.65	90309	
820	5.5 × 16.5 × 14.5	0.70	90311	2000
910		0.70	90312	
1000		0.70	90313	
1100		0.75	90314	
1200		0.75	90315	
1300		0.75	90316	
1500		0.80	90317	
1600		0.85	90318	
1800	6.0 × 17.0 × 14.5	0.80	90319	1750
2000		0.85	90321	
2200		0.90	90322	
2400		1.0	90323	
2700	6.5 × 17.5 × 14.5	1.1	90324	1500

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING	
			LOOSE IN BOX	
			l_t = 4.0 + 1.0/- 0.5 mm	
			C-tol = ± 5 %	
			last 5 digits of catalog number	SPQ
C (pF)	**pitch = 15.0 ± 1.0 mm; d_t = 0.80 ± 0.08 mm**			
3000	5.0 × 17.0 × 18.5	1.0	90325	2000
3300			90326	
3600	5.5 × 17.5 × 18.5	1.1	90327	2000
3900			90328	
4300			90329	
4700			90331	
5100			90332	
5600			90333	
6200	6.0 × 18.0 × 18.5	1.3	90334	2000
6800			90335	
7500			90336	
8200			90337	
9100			90338	
10000			90339	
11000			90236	
12000			90341	
13000			90342	
15000			90343	
16000			90344	
18000	6.5 × 18.5 × 18.5	1.4	90218	1750
20000			90345	
22000	7.0 × 19.0 × 18.5	1.5	90219	1500
24000	7.5 × 19.5 × 18.5	1.7	90221	1400
27000	8.0 × 20.0 × 18.5	1.9	90223	1250
30000			90346	
33000	8.5 × 20.5 × 18.5	2.0	90347	1200
36000	9.5 × 21.5 × 18.5	2.3	on request	1000
39000				
C (µF)	**pitch = 22.5 ± 1.0 mm; d_t = 0.80 ± 0.08 mm**			
0.036	7.0 × 23.0 × 26.0	2.7	90348	600
0.039			90349	
0.043			90351	
0.047			90352	
0.051			90353	
0.056			90354	
0.062			90355	
0.068	7.5 × 23.5 × 26.0	3.0	90356	550
0.075	8.0 × 24.0 × 26.0	3.3	90357	500
0.082			90358	
0.091	8.5 × 24.5 × 26.0	3.8	90359	450
0.1	9.0 × 25.0 × 26.0	4.0	90361	450
0.11	9.5 × 25.5 × 26.0	4.3	90362	400
0.12	10.0 × 26.0 × 26.0	4.7	90363	350
C (µF)	**pitch = 27.5 ± 1.0 mm; d_t = 0.80 ± 0.08 mm**			
0.13	9.5 × 25.5 × 30.0	4.7	90364	450
0.15	10.0 × 26.0 × 30.0	5.2	90365	400
0.16	10.5 × 26.5 × 30.0	5.5	90366	350
0.18	11.0 × 27.0 × 30.0	6.0	90367	350
0.2	11.5 × 27.5 × 30.0	6.6	90368	350

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING	
			LOOSE IN BOX	
			l_t = 4.0 + 1.0/- 0.5 mm	
			C-tol = ± 5 %	
			last 5 digits of catalog number	SPQ
0.22	12.5 × 28.5 × 30.0	7.1	90369	300
0.24	13.0 × 29.0 × 30.0	7.7	90371	250
0.27	13.5 × 29.5 × 30.0	8.5	90372	250

SPECIFIC REFERENCE DATA (1000 VDC)

DESCRIPTION	VALUE	
Tangent of loss angle:	at 10 kHz	at 100 kHz
Pitch = 10 mm, 15 mm and 7.5 mm (bent back)	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
Pitch = 22.5 mm	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
Pitch = 27.5 mm	$\leq 6 \times 10^{-4}$	$\leq 15 \times 10^{-4}$
Rated voltage pulse slope $(dU/dt)_R$:		
Pitch = 10 mm	27000 V/µs	
Pitch = 15 mm and 7.5 mm (bent back)	15000 V/µs	
Pitch = 22.5 mm	5000 V/µs	
Pitch = 27.5 mm	3300 V/µs	
R between leads at 500 V; 1 minute	> 100000 MΩ	
R between interconnected leads and case; 500 V; 1 minute	> 100000 MΩ	
Ionization (AC) voltage (typical value) at 50 pC peak discharge	> 500 V	
Withstanding (DC) voltage (cut off current 10 mA); rise time 100 V/s:		
for C ≤ 47 nF	1600 V; 1 minute	
for C > 47 nF	1200 V; 1 minute	
Withstanding (DC) voltage between leads and case	2840 V; 1 minute	

U_{Rdc} = 1000 V; U_{Rac} = 400 V; U_{p-p} = 1000 V (standard)

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING					
			LOOSE IN BOX		REEL			
			l_t = 5.0 ± 1.0 mm	all leads	REEL ∅ 500 mm		REEL ∅ 356 mm	REEL ∅ 500 mm
			C-tol = ± 5 %		C-tol = ± 5 %			
			last 5 digits of catalog number	SPQ	last 5 digits of catalog number	SPQ	SPQ	SPQ
C (pF)	pitch = 10.0 ± 0.4 mm; d_t = 0.60 ± 0.06 mm				pitch = 7.5 mm (bent back)			pitch = 10.0 mm
100	5.0 × 13.0 × 14.5	0.50	24101	2000				1200
110			24111					
120			24121					
130			24131					

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING					
			LOOSE IN BOX		REEL			
			l_t = 5.0 ± 1.0 mm	all leads	REEL ∅ 500 mm		REEL ∅ 356 mm	REEL ∅ 500 mm
			C-tol = ± 5 %		C-tol = ± 5 %			
			last 5 digits of catalog number	SPQ	last 5 digits of catalog number	SPQ	SPQ	SPQ
150	5.5 × 13.5 × 14.5	0.55	24151	2000				1100
160		0.55	24161					
180		0.55	24181					
200		0.55	24201					
220		0.60	24221					
240		0.60	24241					
270		0.60	24271					
300		0.60	24301					
330		0.60	24331					
360		0.60	24361					
390		0.65	24391					
430		0.70	24431					
470		0.75	24471					
510		0.75	24511					
560		0.80	24561					
620		0.80	24621					
680		0.80	24681					
750		0.70	24751					
820		0.70	24821					
910		0.70	24911					
1000	6.0 × 14.0 × 14.5	0.75	24102	1750				1000
1100		0.85	24112					
1200		0.90	24122					
1300		0.85	24132					
1500		0.90	24152					
C (pF)	pitch = 15.0 ± 0.4 mm; d_t = 0.80 ± 0.08 mm				pitch = 7.5 mm (bent back)			pitch = 15.0 mm
1600	5.5 × 14.5 (16.0) × 18.5	1.1	24162	2000	26162	900	500	1100
1800			24182		26182			
2000			24202		26202			
2200			24222		26222			
2400			24242		26242			
2700	6.0 × 15.0 (16.5) × 18.5	1.2	24272	2000	26272	800	450	1000
3000			24302		26302			
3300			24332		26332			
3600			24362		26362			
3900			24392		26392			
4300	6.0 × 15.0 (16.5) × 18.5	1.2	24432	2000	26432	800	450	1000
4700			24472		26472			
5100			24512		26512			
5600			24562		26562			
6200			24622		26622			
6800			24682		26682			
7500	7.0 × 16.0 (17.5) × 18.5	1.4	24752	1500	26752	700	400	800
8200			24822		26822			
9100			24912		26912			
10000	7.5 × 16.5 (18.0) × 18.5	1.6	24103	1250	26103	650	350	800
11000	8.0 × 17.0 (18.5) × 18.5	1.8	24113	1250	26113	600	350	750
12000			24123		26123			
13000	8.5 × 17.5 (19.0) × 18.5	1.9	24133	1000	26133	550	300	700

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING					
			LOOSE IN BOX		REEL			
			l_t = 5.0 ± 1.0 mm	all leads	REEL ∅ 500 mm		REEL ∅ 356 mm	REEL ∅ 500 mm
			C-tol = ± 5 %		C-tol = ± 5 %			
			last 5 digits of catalog number	SPQ	last 5 digits of catalog number	SPQ	SPQ	SPQ
15000	9.0 × 18.0 (19.5) × 18.5	2.1	24153	1000	26153	550	300	650
C (µF)	**pitch = 22.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm**				**pitch = 7.5 mm (bent back)**			**pitch = 22.5 mm**
0.016 0.018	6.0 × 19.0 × 26.0	2.2	24163 24183	800				650
0.02 0.022	6.5 × 19.5 × 26.0	2.5	24203 24223	750				600
0.024	7.0 × 20.0 × 26.0	2.7	24243	650				550
0.027 0.03	7.5 × 20.5 × 26.0	3.1	24273 24303	600				500
0.033	8.0 × 21.0 × 26.0	3.4	24333	550				500
0.036 0.039	8.5 × 21.5 × 26.0	3.7	24363 24393	500				450
0.043	9.0 × 22.0 × 26.0	4.1	24433	450				450
C (µF)	**pitch = 27.5 ± 0.5 mm; d_t = 0.80 ± 0.08 mm**				**pitch = 7.5 mm (bent back)**			**pitch = 27.5 mm**
0.047	7.0 × 20.0 × 30.0	3.1	24473	1000				
0.051 0.056	7.5 × 20.5 × 30.0	3.4	24513 24563	750				
0.062	8.0 × 21.0 × 30.0	3.8	24623	650				
0.068	8.5 × 21.5 × 30.0	4.0	24683	550				
0.075	9.0 × 22.0 × 30.0	4.4	24753	550				
0.082	9.5 × 22.5 × 30.0	4.7	24823	500				
0.091	10.0 × 23.0 × 30.0	5.1	24913	500				
0.1	10.5 × 23.5 × 30.0	5.5	24104	450				
0.11	11.0 × 24.0 × 30.0	5.9	24114	400				
0.12	11.5 × 24.5 × 30.0	6.3	24124	400				
0.13	12.0 × 25.0 × 30.0	6.8	24134	350				
0.15	12.5 × 25.5 × 30.0	7.6	24154	350				

U_{Rdc} = 1000 V; U_{Rac} = 400 V; U_{p-p} = 1000 V (lock lead)

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING	
			LOOSE IN BOX	
			l_t = 4.0 + 1.0/- 0.5 mm	
			C-tol = ± 5 %	
			last 5 digits of catalog number	SPQ
C (pF)	**pitch = 10.0 ± 1.0 mm; d_t = 0.60 ± 0.06 mm**			
100 110 120 130	5.0 × 16.0 × 14.5	0.50	90373 90374 90375 90376	2000

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING	
			LOOSE IN BOX	
			l_t = 4.0 + 1.0/- 0.5 mm	
			C-tol = ± 5 %	
			last 5 digits of catalog number	SPQ
150	5.5 × 16.5 × 14.5	0.55	90377	2000
160		0.55	90378	
180		0.55	90379	
200		0.55	90381	
220		0.60	90382	
240		0.60	90383	
270		0.60	90384	
300		0.60	90385	
330		0.60	90386	
360		0.60	90387	
390		0.65	90388	
430		0.70	90389	
470		0.75	90391	
510		0.75	90392	
560		0.80	90393	
620		0.80	90394	
680		0.80	90395	
750		0.70	90396	
820		0.70	90397	
910		0.70	90398	
1000	6.0 × 17.0 × 14.5	0.75	90399	1750
1100		0.85	90401	
1200		0.90	90402	
1300		0.85	90403	
1500		0.90	90404	
C (pF)	**pitch = 15.0 ± 1.0 mm; d_t = 0.80 ± 0.08 mm**			
1600	5.5 × 17.5 × 18.5	1.1	90405	2000
1800			90406	
2000			90407	
2200			90408	
2400			90409	
2700	6.0 × 18.0 × 18.5	1.2	90411	2000
3000			90412	
3300			90413	
3600			90414	
3900			90415	
4300			90416	
4700			90417	
5100	6.0 × 18.0 × 18.5	1.2	90418	2000
5600			90419	
6200			90421	
6800			90422	
7500	7.0 × 19.0 × 18.5	1.5	90232	1500
8200			90423	
9100			90424	
10000	7.5 × 19.5 × 18.5	1.6	90425	1400
11000	8.0 × 20.0 × 18.5	1.8	90426	1250
12000			90427	

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING	
			LOOSE IN BOX	
			l_t = 4.0 + 1.0/- 0.5 mm	
			C-tol = ± 5 %	
			last 5 digits of catalog number	SPQ
13000	8.5 × 20.5 × 18.5	1.9	90428	1200
15000	9.0 × 21.0 × 18.5	2.1	90429	1100
C (µF)	**pitch = 22.5 ± 1.0 mm; d_t = 0.80 ± 0.08 mm**			
0.016	6.0 × 22.0 × 26.0	2.2	90431	750
0.018			90432	
0.02	6.5 × 22.5 × 26.0	2.5	90433	700
0.022			90434	
0.024	7.0 × 23.0 × 26.0	2.7	90435	600
0.027	7.5 × 23.5 × 26.0	3.1	90436	550
0.03			90437	
0.033	8.0 × 24.0 × 26.0	3.4	90438	500
0.036	8.5 × 24.5 × 26.0	3.8	90439	450
0.039			90224	
0.043	9.0 × 25.0 × 26.0	4.1	90441	450
C (µF)	**pitch = 27.5 ± 1.0 mm; d_t = 0.80 ± 0.08 mm**			
0.047	7.0 × 23.0 × 30.0	3.1	90442	800
0.051	7.5 × 23.5 × 30.0	3.4	90443	600
0.056			90444	
0.062	8.0 × 24.0 × 30.0	3.8	90445	550
0.068	8.5 × 24.5 × 30.0	4.0	90446	550
0.075	9.0 × 25.0 × 30.0	4.4	90447	450
0.082	9.5 × 25.5 × 30.0	4.7	90448	450
0.091	10.0 × 26.0 × 30.0	5.1	90449	400
0.1	10.5 × 26.5 × 30.0	5.5	90451	350
0.11	11.0 × 27.0 × 30.0	5.9	90452	350
0.12	11.5 × 27.5 × 30.0	6.3	90453	350
0.13	12.0 × 28.0 × 30.0	6.8	90454	300
0.15	12.5 × 28.5 × 30.0	7.6	90455	300

SPECIFIC REFERENCE DATA (1600 VDC)

DESCRIPTION	VALUE	
Tangent of loss angle:	at 10 kHz	at 100 kHz
Pitch = 15 mm and 7.5 mm (bent back)	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
Pitch = 22.5 mm	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
Pitch = 27.5 mm	$\leq 6 \times 10^{-4}$	$\leq 15 \times 10^{-4}$
Rated voltage pulse slope $(dU/dt)_R$:		
Pitch = 15 mm and 7.5 mm (bent back)	21000 V/µs	
Pitch = 22.5 mm	7000 V/µs	
Pitch = 27.5 mm	4700 V/µs	
R between leads at 500 V; 1 minute	> 100000 MΩ	
R between interconnected leads and case; 500 V; 1 minute	> 100000 MΩ	
Ionization (AC) voltage (typical value) at 20 pC peak discharge	> 550 V	
Withstanding (DC) voltage (cut off current 10 mA); rise time 100 V/s	2560 V; 1 minute	
Withstanding (DC) voltage between leads and case	2840 V; 1 minute	

AC and Pulse Polypropylene Film Capacitors KP/MKP Radial Epoxy Lacquered Type

U_{Rdc} = 1600 V; U_{Rac} = 500 V; U_{p-p} = 1400 V (standard)

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING					
			LOOSE IN BOX		REEL			
			l_t = 5.0 ± 1.0 mm	all leads	REEL ∅ 500 mm		REEL ∅ 356 mm	REEL ∅ 500 mm
			C-tol = ± 5 %		C-tol = ± 5 %			
			last 5 digits of catalog number	SPQ	last 5 digits of catalog number	SPQ	SPQ	SPQ
C (pF)	**pitch = 15.0 ± 0.4 mm; d_t = 0.80 ± 0.08 mm**				**pitch = 7.5 mm (bent back)**			**pitch 15.0 mm**
680	5.5 × 14.5 (15.0) × 18.5	0.75	34681	2000	36681	900	500	1100
750			34751		36751			
820			34821		36821			
910	6.0 × 15.0 (15.5) × 18.5	0.80	34911	2000	36911	800	450	1000
1000		0.85	34102		36102			
1100		0.85	34112		36112			
1200		0.90	34122		36122			
1300		0.95	34132		36132			
1500	5.5 × 14.5 (16.0) × 18.5	1.1	34152	2000	36152	900	500	1100
1600			34162		36162			
1800	6.0 × 15.0 (16.5) × 18.5	1.2	34182	2000	36182	800	450	1000
2000	6.5 × 15.5 (17.0) × 18.5	1.3	34202	1500	36202	750	400	900
2200			34222		36222			
2400	7.0 × 16.0 (17.5) × 18.5	1.4	34242	1500	36242	700	400	800
2700	7.5 × 16.5 (18.0) × 18.5	1.4	34272	1250	36272	650	350	800
3000			34302		36302			
3300	8.0 × 17.0 (18.5) × 18.5	1.7	34332	1250	36332	600	350	750
3600	8.5 × 17.5 (19.0) × 18.5	1.8	34362	1000	36362	550	300	700
3900	9.0 × 18.0 (19.5) × 18.5	2.0	34392	1000	36392	550	300	650
4300			34432		36432			
C (µF)	**pitch = 22.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm**				**pitch = 7.5 mm (bent back)**			**pitch = 22.5 mm**
0.0047	6.0 × 19.0 × 26.0	2.0	34472	800				650
0.0051			34512					
0.0056			34562					
0.0062	6.5 × 19.5 × 26.0	2.1	34622	750				600
0.0068			34682					
0.0075	7.0 × 20.0 × 26.0	2.3	34752	650				550
0.0082			34822					
0.0091	7.5 × 20.5 × 26.0	2.5	34912	600				500
0.01	8.0 × 21.0 × 26.0	2.6	34103	550				500
0.011	8.5 × 21.5 × 26.0	2.9	34113	500				450
0.012			34123					
0.013	9.0 × 22.0 × 26.0	3.1	34133	450				450
0.015	9.5 × 22.5 × 26.0	3.5	34153	400				400
0.016	10.0 × 23.0 × 26.0	3.6	34163	400				400
0.018	10.5 × 23.5 × 26.0	4.0	34183	350				350

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING					
			LOOSE IN BOX		REEL			
			l_t = 5.0 ± 1.0 mm	all leads	REEL ∅ 500 mm		REEL ∅ 356 mm	REEL ∅ 500 mm
			C-tol = ± 5 %		C-tol = ± 5 %			
			last 5 digits of catalog number	SPQ	last 5 digits of catalog number	SPQ	SPQ	SPQ
C (µF)	pitch = 27.5 ± 0.5 mm; d_t = 0.80 ± 0.08 mm				pitch = 7.5 mm (bent back)			pitch = 27.5 mm
0.02	9.0 × 22.0 × 30.0	4.2	34203	550				
0.022	9.5 × 22.5 × 30.0	4.4	34223	500				
0.024	10.0 × 23.0 × 30.0	4.7	34243	500				
0.027	10.5 × 23.5 × 30.0	5.2	34273	450				
0.03	11.0 × 24.0 × 30.0	5.6	34303	400				
0.033	11.5 × 24.5 × 30.0	6.0	34333	400				
0.036	12.0 × 25.0 × 30.0	6.5	34363	350				
0.039	12.5 × 25.5 × 30.0	6.9	34393	350				

U_{Rdc} = 1600 V; U_{Rac} = 500 V; U_{p-p} = 1400 V (lock lead)

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING	
			LOOSE IN BOX	
			l_t = 4.0 + 1.0/- 0.5 mm	
			C-tol = ± 5 %	
			last 5 digits of catalog number	SPQ
C (pF)	pitch = 15.0 ± 1.0 mm; d_t = 0.80 ± 0.08 mm			
680	5.5 × 17.5 × 18.5	0.75	90456	2000
750			90457	
820			90458	
910	6.0 × 18.0 × 18.5	0.80	90459	2000
1000		0.85	90461	
1100		0.85	90462	
1200		0.90	90463	
1300		0.95	90464	
1500	5.5 × 17.5 × 18.5	1.1	90465	2000
1600			90466	
1800	6.0 × 18.0 × 18.5	1.2	90467	2000
2000	6.5 × 18.5 × 18.5	1.3	90468	1750
2200			90469	
2400	7.0 × 19.0 × 18.5	1.4	90471	1500
2700	7.5 × 19.5 × 18.5	1.6	90472	1400
3000			90473	
3300	8.0 × 20.0 × 18.5	1.9	90141	1250
3600	8.5 × 20.5 × 18.5	2.3	90142	1200
3900	9.0 × 21.0 × 18.5	2.5	90143	1100
4300			90144	
C (µF)	pitch = 22.5 ± 1.0 mm; d_t = 0.80 ± 0.08 mm			
0.0047	6.0 × 22.0 × 26.0	2.4	90145	750
0.0051			90146	
0.0056			90147	
0.0062	6.5 × 22.5 × 26.0	2.6	90148	700
0.0068			90149	
0.0075	7.0 × 23.0 × 26.0	2.8	90151	600
0.0082			90152	
0.0083			90202	
0.0091	7.5 × 23.5 × 26.0	2.9	90153	550

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING	
			LOOSE IN BOX	
			l_t = 4.0 + 1.0/- 0.5 mm	
			C-tol = ± 5 %	
			last 5 digits of catalog number	SPQ
0.01	8.0 × 24.0 × 26.0	3.2	90154	500
0.011	8.5 × 24.5 × 26.0	3.4	90155	450
0.012			90156	
0.013	9.0 × 25.0 × 26.0	3.6	90157	450
0.015	9.5 × 25.5 × 26.0	4.0	90158	400
0.016	10.0 × 26.0 × 26.0	4.3	90159	350
0.018	10.5 × 26.5 × 26.0	4.7	90161	350
C (µF)	**pitch = 27.5 ± 1.0 mm; d_t = 0.80 ± 0.08 mm**			
0.02	9.0 × 25.0 × 30.0	4.2	90474	450
0.022	9.5 × 25.5 × 30.0	4.4	90475	450
0.024	10.0 × 26.0 × 30.0	4.7	90476	400
0.027	10.5 × 26.5 × 30.0	5.2	90477	350
0.03	11.0 × 27.0 × 30.0	5.6	90478	350
0.033	11.5 × 27.5 × 30.0	6.0	90479	350
0.036	12.0 × 28.0 × 30.0	6.5	90481	300
0.039	12.5 × 28.5 × 30.0	6.9	90482	300

SPECIFIC REFERENCE DATA (2000 VDC)

DESCRIPTION	VALUE	
Tangent of loss angle:	at 10 kHz	at 100 kHz
Pitch = 15 mm and 7.5 mm (bent back)	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
Pitch = 22.5 mm	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
Pitch = 27.5 mm	$\leq 6 \times 10^{-4}$	$\leq 15 \times 10^{-4}$
Rated voltage pulse slope $(dU/dt)_R$:		
Pitch = 15 mm and 7.5 mm (bent back)	30000 V/µs	
Pitch = 22.5 mm	10000 V/µs	
Pitch = 27.5 mm	6700 V/µs	
R between leads at 500 V; 1 minute	> 100000 MΩ	
R between interconnected leads and case; 500 V; 1 minute	> 100000 MΩ	
Ionization (AC) voltage (typical value) at 20 pC peak discharge	> 600 V	
Withstanding (DC) voltage (cut off current 10 mA); rise time 100 V/s	3200 V; 1 minute	
Withstanding (DC) voltage between leads and case	2840 V; 1 minute	

U_{Rdc} = 2000 V; U_{Rac} = 600 V; U_{p-p} = 1700 V (standard)

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING					
			LOOSE IN BOX		REEL			
			l_t = 5.0 ± 1.0 mm	all leads	REEL ∅ 500 mm		REEL ∅ 356 mm	REEL ∅ 500 mm
			C-tol = ± 5 %		C-tol = ± 5 %			
			last 5 digits of catalog number	SPQ	last 5 digits of catalog number	SPQ	SPQ	SPQ
C (pF)	**pitch = 15.0 ± 0.4 mm; d_t = 0.80 ± 0.08 mm**				**pitch = 7.5 mm (bent back)**			**pitch = 15.0 mm**
100	5.5 × 14.5 (15.0) × 18.5	0.75	44101	2000	46101	900	500	1100
110		0.75	44111		46111			
120		0.75	44121		46121			
130		0.75	44131		46131			
150		0.75	44151		46151			

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING					
			LOOSE IN BOX		REEL			
			l_t = 5.0 ± 1.0 mm	all leads	REEL ∅ 500 mm		REEL ∅ 356 mm	REEL ∅ 500 mm
			C-tol = ± 5 %		C-tol = ± 5 %			
			last 5 digits of catalog number	SPQ	last 5 digits of catalog number	SPQ	SPQ	SPQ
160	5.5 × 14.5 (15.0) × 18.5	0.75	44161	2000	46161	900	500	1100
180		0.75	44181		46181			
200		0.75	44201		46201			
220		0.75	44221		46221			
240		0.75	44241		46241			
270		0.75	44271		46271			
300		0.75	44301		46301			
330		0.75	44331		46331			
360		0.75	44361		46361			
390		0.75	44391		46391			
430		0.75	44431		46431			
470		0.80	44471		46471			
510		0.80	44511		46511			
560		0.80	44561		46561			
620	6.0 × 15.0 (15.5) × 18.5	0.85	44621	2000	46621	800	450	1000
680		0.85	44681		46681			
750		0.90	44751		46751			
820	6.5 × 15.5 (16.0) × 18.5	0.95	44821	1500	46821	750	400	900
910	5.5 × 14.5 (16.0) × 18.5	1.1	44911	2000	46911	900	500	1100
1000	6.0 × 15.0 (16.5) × 18.5	1.2	44102	2000	46102	800	450	1000
1100			44112		46112			
1200			44122		46122			
1300	6.5 × 15.5 (17.0) × 18.5	1.3	44132	1500	46132	750	400	900
1500	7.0 × 16.0 (17.5) × 18.5	1.4	44152	1500	46152	700	400	800
1600	7.5 × 16.5 (18.0) × 18.5	1.5	44162	1250	46162	650	350	800
1800			44182		46182			
2000	8.0 × 17.0 (18.5) × 18.5	1.6	44202	1250	46202	600	350	750
2200	8.5 × 17.5 (19.0) × 18.5	1.7	44222	1000	46222	550	300	700
2400	9.0 × 18.0 (19.5) × 18.5	1.8	44242	1000	46242	550	300	650
2700	9.5 × 18.5 (20.0) × 18.5	2.0	44272	900	46272	500	300	600
C (µF)	**pitch = 22.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm**				**pitch = 7.5 mm (bent back)**			**pitch = 22.5 mm**
0.003	6.0 × 19.0 × 26.0	2.1	44302	800				650
0.0033			44332					
0.0036			44362					
0.0039			44392					
0.0043	6.5 × 19.5 × 26.0	2.3	44432	750				600
0.0047			44472					
0.0051	7.0 × 20.0 × 26.0	2.6	44512	650				550
0.0056			44562					
0.0062	7.5 × 20.5 × 26.0	2.8	44622	600				500
0.0068	8.0 × 21.0 × 26.0	3.0	44682	550				500
0.0075			44752					
0.0082	8.5 × 21.5 × 26.0	3.3	44822	500				450
0.0091	9.0 × 22.0 × 26.0	3.6	44912	450				450
0.01	9.5 × 22.5 × 26.0	3.8	44103	400				400
C (µF)	**pitch = 27.5 ± 0.5 mm; d_t = 0.80 ± 0.08 mm**				**pitch = 7.5 mm (bent back)**			**pitch = 27.5 mm**
0.011	9.0 × 22.0 × 30.0	3.8	44113	550				
0.012	9.5 × 22.5 × 30.0	4.1	44123	500				
0.013	10.0 × 23.0 × 30.0	4.4	44133	500				
0.015	10.5 × 23.5 × 30.0	4.9	44153	450				

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING					
			LOOSE IN BOX		REEL			
			l_t = 5.0 ± 1.0 mm	all leads	REEL ∅ 500 mm		REEL ∅ 356 mm	REEL ∅ 500 mm
			C-tol = ± 5 %		C-tol = ± 5 %			
			last 5 digits of catalog number	SPQ	last 5 digits of catalog number	SPQ	SPQ	SPQ
0.016	11.0 × 24.0 × 30.0	5.1	44163	400				
0.018	11.5 × 24.5 × 30.0	5.6	44183	400				
0.02	12.5 × 25.5 × 30.0	6.1	44203	350				
0.022	13.0 × 26.0 × 30.0	6.5	44223	300				

U_{Rdc} = 2000 V; U_{Rac} = 600 V; U_{p-p} = 1700 V (lock lead)

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING	
			LOOSE IN BOX	
			l_t = 4.0 + 1.0/- 0.5 mm	
			C-tol = ± 5 %	
			last 5 digits of catalog number	SPQ
C (pF)	pitch = 15.0 ± 1.0 mm; d_t = 0.80 ± 0.08 mm			
100	5.5 × 17.5 × 18.5	0.75	90483	2000
110		0.75	90484	
120		0.75	90485	
130		0.75	90486	
150		0.75	90487	
160		0.75	90488	
180		0.75	90489	
200		0.75	90491	
220		0.75	90276	
240		0.75	90492	
270		0.75	90493	
300		0.75	90494	
330		0.75	90495	
360		0.75	90496	
390		0.75	90188	
430		0.75	90497	
470		0.80	90498	
510		0.80	90499	
560		0.80	90501	
620	6.0 × 18.0 × 18.5	0.85	90502	2000
680		0.85	90229	
750		0.90	90503	
820	6.5 × 18.5 × 18.5	0.95	90504	1750
910	5.5 × 17.5 × 18.5	1.1	90505	2000
1000	6.0 × 18.0 × 18.5	1.3	90225	2000
1100			90506	
1200			90226	
1300	6.5 × 18.5 × 18.5	1.3	90507	1750
1500	7.0 × 19.0 × 18.5	1.5	90266	1500
1600	7.5 × 19.5 × 18.5	1.7	90508	1400
1800			90237	
2000	8.0 × 20.0 × 18.5	1.7	90509	1250
2200	8.5 × 20.5 × 18.5	2.3	90227	1200

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING	
			LOOSE IN BOX	
			l_t = 4.0 + 1.0/- 0.5 mm	
			C-tol = ± 5 %	
			last 5 digits of catalog number	SPQ
2400	9.0 × 21.0 × 18.5	1.8	90511	1100
2700	9.5 × 21.5 × 18.5	2.7	90228	1000
C (µF)	**pitch = 22.5 ± 1.0 mm; d_t = 0.80 ± 0.08 mm**			
0.003	6.0 × 22.0 × 26.0	2.2	90512	750
0.0033			90162	
0.0036			90163	
0.0039			90164	
0.0043	6.5 × 22.5 × 26.0	2.4	90165	700
0.0047			90166	
0.0051	7.0 × 23.0 × 26.0	2.6	90167	600
0.0056			90168	
0.0062	7.5 × 23.5 × 26.0	2.8	90169	550
0.0068	8.0 × 24.0 × 26.0	3.0	90171	500
0.0075			90172	
0.0082	8.5 × 24.5 × 26.0	3.2	90173	450
0.0091	9.0 × 25.0 × 26.0	3.5	90174	450
0.01	9.5 × 25.5 × 26.0	3.8	90175	400
C (µF)	**pitch = 27.5 ± 1.0 mm; d_t = 0.80 ± 0.08 mm**			
0.011	9.0 × 25.0 × 30.0	4.4	90176	450
0.012	9.5 × 25.5 × 30.0	4.6	90177	450
0.013	10.0 × 26.0 × 30.0	5.0	90178	400
0.015	10.5 × 26.5 × 30.0	5.4	90179	350
0.016	11.0 × 27.0 × 30.0	5.8	90181	350
0.018	11.5 × 27.5 × 30.0	6.2	90182	350
0.02	12.5 × 28.5 × 30.0	6.1	90513	300
0.022	13.0 × 29.0 × 30.0	6.5	90514	250

SPECIFIC REFERENCE DATA (1600 VDC MONITOR)

DESCRIPTION	VALUE	
Tangent of loss angle:	at 10 kHz	at 100 kHz
Pitch = 15 mm and 7.5 mm (bent back)	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
Pitch = 22.5 mm	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
Pitch = 27.5 mm	$\leq 6 \times 10^{-4}$	$\leq 15 \times 10^{-4}$
Rated voltage pulse slope $(dU/dt)_R$:		
Pitch = 15 mm and 7.5 mm (bent back)	21000 V/µs	
Pitch = 22.5 mm	7000 V/µs	
Pitch = 27.5 mm	4700 V/µs	
R between leads at 500 V; 1 minute	> 100000 MΩ	
R between interconnected leads and case; 500 V; 1 minute	> 100000 MΩ	
Ionization (AC) voltage (typical value) at 20 pC peak discharge	> 550 V	
Withstanding (DC) voltage (cut off current 10 mA); rise time 100 V/s	2560 V; 1 minute	
Withstanding (DC) voltage between leads and case	2840 V; 1 minute	

U_{Rdc} = 1600 V; U_{Rac} = 500 V; U_{p-p} = 1400 V (monitor standard)

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING					
			LOOSE IN BOX		REEL			
			l_t = 5.0 ± 1.0 mm	all leads	REEL ∅ 500 mm		REEL ∅ 356 mm	REEL ∅ 500 mm
			C-tol = ± 5 %		C-tol = ± 5 %			
			last 5 digits of catalog number	SPQ	last 5 digits of catalog number	SPQ	SPQ	SPQ
C (pF)	**pitch = 15.0 ± 0.4 mm; d_t = 0.80 ± 0.08 mm**				**pitch = 7.5 mm (bent back)**			**pitch = 15.0 mm**
1000	7.5 × 16.5 (18.0) × 18.5	1.6	64102	1250	66102	650	350	800
1100	8.0 × 17.0 (18.5) × 18.5	1.7	64112	1250	66112	600	350	750
1200			64122		66122			
1300	8.5 × 17.5 (19.0) × 18.5	1.8	64132	1000	66132	550	300	700
1500	9.0 × 18.0 (19.5) × 18.5	2.0	64152	1000	66152	550	300	650
1600	9.5 × 18.5 (20.0) × 18.5	2.3	64162	900	66162	500	300	600
C (µF)	**pitch = 22.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm**				**pitch = 7.5 mm (bent back)**			**pitch = 22.5 mm**
0.0018	6.0 × 19.0 × 26.0	2.0	64182	800				650
0.002			64202					
0.0022	6.5 × 19.5 × 26.0	2.1	64222	750				600
0.0024	7.0 × 20.0 × 26.0	2.3	64242	650				550
0.0027			64272					
0.003	7.5 × 20.5 × 26.0	2.5	64302	600				500
0.0033	8.0 × 21.0 × 26.0	2.6	64332	550				500
0.0036			64362					
0.0039			64392					
0.0043	8.5 × 21.5 × 26.0	2.9	64432	500				450
0.0047			64472					
0.0051			64512					
0.0056			64562					
0.0062	9.0 × 22.0 × 26.0	3.1	64622	450				450
0.0068	9.5 × 22.5 × 26.0	3.5	64682	450				400
0.0075	10.0 × 23.0 × 26.0	3.6	64752	400				400
0.0082	10.5 × 23.5 × 26.0	4.0	64822	350				350

U_{Rdc} = 1600 V; U_{Rac} = 500 V; U_{p-p} = 1400 V (monitor lock lead)

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING	
			LOOSE IN BOX	
			l_t = 4.0 + 1.0/- 0.5 mm	
			C-tol = ± 5 %	
			last 5 digits of catalog number	SPQ
C (pF)	**pitch = 15.0 ± 0.4 mm; d_t = 0.80 ± 0.08 mm**			
1000	7.5 × 19.5 × 18.5	1.6	90646	1400
1100	8.0 × 20.0 × 18.5	1.7	90647	1250
1200			90648	
1300	8.5 × 20.5 × 18.5	1.8	90649	1200
1500	9.0 × 21.0 × 18.5	2.0	90651	1100
1600	9.5 × 21.5 × 18.5	2.3	90652	1000

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING	
			LOOSE IN BOX	
			l_t = 4.0 + 1.0/- 0.5 mm	
			C-tol = ± 5 %	
			last 5 digits of catalog number	SPQ
C (µF)	pitch = 22.5 ± 1.0 mm; d_t = 0.80 ± 0.08 mm			
0.0018	6.0 × 22.0 × 26.0	2.0	90653	750
0.002			90654	
0.0022	6.5 × 22.5 × 26.0	2.1	90655	700
0.0024	7.0 × 23.0 × 26.0	2.3	90656	600
0.0027			90657	
0.003	7.5 × 23.5 × 26.0	2.5	90658	550
0.0033	8.0 × 24.0 × 26.0	2.6	90659	500
0.0036			90661	
0.0039			90662	
0.0043	8.5 × 24.5 × 26.0	2.9	90663	450
0.0047			90664	
0.0051			90665	
0.0056			90666	
0.0062	9.0 × 25.0 × 26.0	3.1	90667	450
0.0068	9.5 × 25.5 × 26.0	3.5	90668	400
0.0075	10.0 × 26.0 × 26.0	3.6	90669	350
0.0082	10.5 × 26.5 × 26.0	4.0	90671	350

SPECIFIC REFERENCE DATA (2000 VDC MONITOR)

DESCRIPTION	VALUE	
Tangent of loss angle:	at 10 kHz	at 100 kHz
	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
Rated voltage pulse slope $(dU/dt)_R$ at 2000 V (DC)	10000 V/µs	
R between leads at 500 V; 1 minute	> 100000 MΩ	
R between interconnected leads and case; 500 V; 1 minute	> 100000 MΩ	
Ionization (AC) voltage (typical value) at 20 pC peak discharge	> 600 V	
Withstanding (DC) voltage (cut off current 10 mA); rise time 100 V/s	3200 V; 1 minute	
Withstanding (DC) voltage between leads and case	2840 V; 1 minute	

U_{Rdc} = 2000 V; U_{Rac} = 600 V; U_{p-p} = 1700 V (monitor standard)

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING		
			LOOSE IN BOX		REEL
			l_t = 5.0 ± 1.0 mm	all leads	
			C-tol = ± 5 %		
			last 5 digits of catalog number	SPQ	SPQ
C (µF)	pitch = 22.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm				
0.001	6.0 × 19.0 × 26.0	2.1	74102	800	650
0.0011			74112		
0.0012	6.5 × 19.5 × 26.0	2.3	74122	750	600
0.0013			74132		
0.0015	7.0 × 20.0 × 26.0	2.6	74152	650	550
0.0016			74162		

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING		
			LOOSE IN BOX		REEL
			l_t = 5.0 ± 1.0 mm	all leads	
			C-tol = ± 5 %		
			last 5 digits of catalog number	SPQ	SPQ
0.0018	7.5 × 20.5 × 26.0	2.8	74182	600	500
0.002	8.0 × 21.0 × 26.0	3.0	74202	550	500
0.0022	8.5 × 21.5 × 26.0	3.3	74222	500	450
0.0024	9.0 × 22.0 × 26.0	3.6	74242	450	450
0.0027	9.5 × 22.5 × 26.0	3.8	74272	450	400
0.003	10.0 × 23.0 × 26.0	4.2	74302	400	400
0.0033	10.5 × 23.5 × 26.0	4.5	74332	350	350
0.0036	11.0 × 24.0 × 26.0	4.9	74362	350	350
0.0039			74392		
0.0043			74432		
0.0047	11.5 × 24.5 × 26.0	5.3	74472	350	350
0.0051			74512		

U_{Rdc} = 2000 V; U_{Rac} = 600 V; U_{p-p} = 1700 V (monitor lock lead)

	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING	
			LOOSE IN BOX	
			l_t = 4.0 + 1.0/- 0.5 mm	
			C-tol = ± 5 %	
			last 5 digits of catalog number	SPQ
C (µF)	pitch = 22.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm			
0.001	6.0 × 22.0 × 26.0	2.1	90672	750
0.0011			90673	
0.0012	6.5 × 22.5 × 26.0	2.3	90674	700
0.0013			90675	
0.0015	7.0 × 23.0 × 26.0	2.6	90676	600
0.0016			90677	
0.0018	7.5 × 23.5 × 26.0	2.8	90678	550
0.002	8.0 × 24.0 × 26.0	3.0	90679	500
0.0022	8.5 × 24.5 × 26.0	3.3	90681	450
0.0024	9.0 × 25.0 × 26.0	3.6	90682	450
0.0027	9.5 × 25.5 × 26.0	3.8	90683	400
0.003	10.0 × 26.0 × 26.0	4.2	90684	350
0.0033	10.5 × 26.5 × 26.0	4.5	90685	350
0.0036	11.0 × 27.0 × 26.0	4.9	90686	300
0.0039			90687	
0.0043			90688	
0.0047	11.5 × 27.5 × 26.0	5.3	90689	300
0.0051			90691	

SPECIFIC REFERENCE DATA (2500 VDC MONITOR)

DESCRIPTION	VALUE	
Tangent of loss angle:	at 10 kHz	at 100 kHz
	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
Rated voltage pulse slope $(dU/dt)_R$ at 2500 V (DC)	18000 V/µs	
R between leads at 500 V; 1 minute	> 100000 MΩ	
R between interconnected leads and case; 500 V; 1 minute	> 100000 MΩ	
Ionization (AC) voltage (typical value) at 20 pC peak discharge	> 600 V	
Withstanding (DC) voltage (cut off current 10 mA); rise time 100 V/s	3500 V; 1 minute	
Withstanding (DC) voltage between leads and case	2840 V; 1 minute	

AC and Pulse Polypropylene Film Capacitors KP/MKP Radial Epoxy Lacquered Type

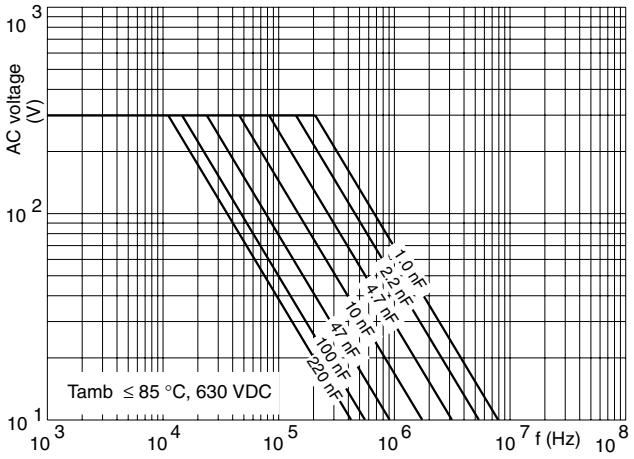
U_{Rdc} = 2500 V; U_{Rac} = 600 V; U_{p-p} = 1700 V (monitor standard)

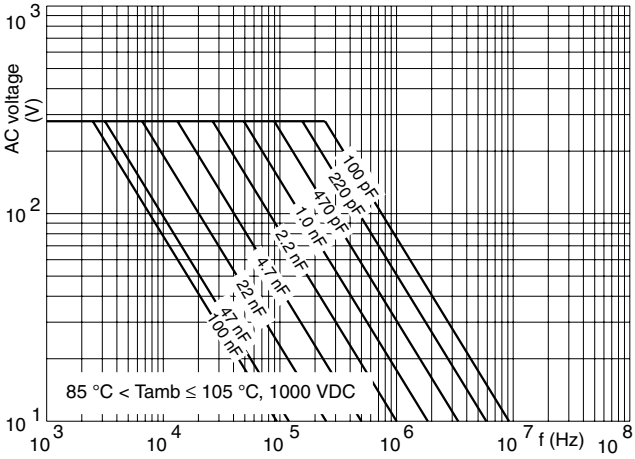
	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING		
			LOOSE IN BOX		REEL
			l_t = 5.0 ± 1.0 mm	all leads	
			C-tol = ± 5 %		
			last 5 digits of catalog number	SPQ	SPQ
C (µF)	pitch = 22.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm				
0.001 0.0011	6.0 × 19.0 × 26.0	2.1	84102 84112	800	650
0.0012 0.0013	6.5 × 19.5 × 26.0	2.3	84122 84132	750	600
0.0015 0.0016	7.0 × 20.0 × 26.0	2.6	84152 84162	650	550
0.0018	7.5 × 20.5 × 26.0	2.8	84182	600	500
0.002	8.0 × 21.0 × 26.0	3.0	84202	550	500
0.0022	8.5 × 21.5 × 26.0	3.3	84222	500	450
0.0024	9.0 × 22.0 × 26.0	3.6	84242	450	450
0.0027	9.5 × 22.5 × 26.0	3.8	84272	450	400
0.003	10.0 × 23.0 × 26.0	4.2	84302	400	400
0.0033	10.5 × 23.5 × 26.0	4.5	84332	350	350
0.0036 0.0039 0.0043	11.0 × 24.0 × 26.0	4.9	84362 84392 84432	350	350
0.0047 0.0051	11.5 × 24.5 × 26.0	5.3	84472 84512	350	350

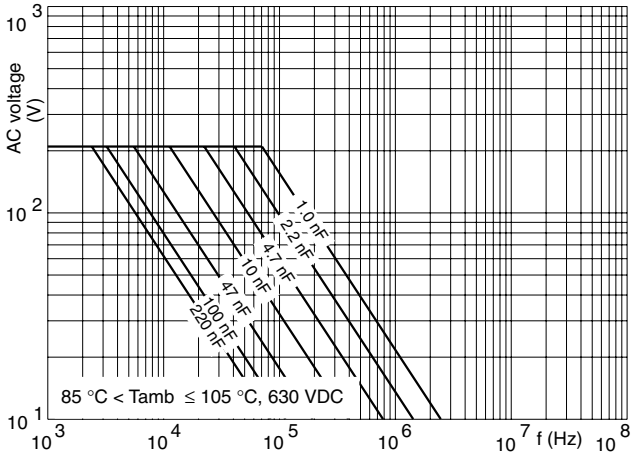
U_{Rdc} = 2500 V; U_{Rac} = 600 V; U_{p-p} = 1700 V (monitor lock lead)

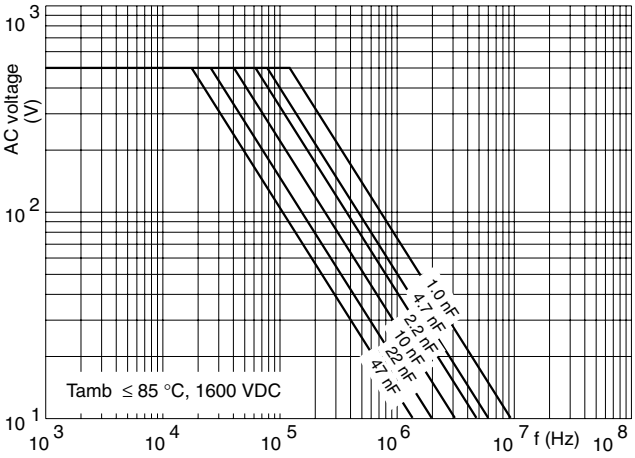
	DIMENSIONS $w_{max} \times h\ (h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 ..... AND PACKAGING	
			LOOSE IN BOX	
			l_t = 4.0 + 1.0/- 0.5 mm	
			C-tol = ± 5 %	
			last 5 digits of catalog number	SPQ
C (µF)	pitch = 22.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm			
0.001 0.0011	6.0 × 22.0 × 26.0	2.1	90692 90693	750
0.0012 0.0013	6.5 × 22.5 × 26.0	2.3	90694 90695	700
0.0015 0.0016	7.0 × 23.0 × 26.0	2.6	90696 90697	600
0.0018	7.5 × 23.5 × 26.0	2.8	90698	550
0.002	8.0 × 24.0 × 26.0	3.0	90699	500
0.0022	8.5 × 24.5 × 26.0	3.3	90701	450
0.0024	9.0 × 25.0 × 26.0	3.6	90702	450
0.0027	9.5 × 25.5 × 26.0	3.8	90703	400
0.003	10.0 × 26.0 × 26.0	4.2	90704	350
0.0033	10.5 × 26.5 × 26.0	4.5	90705	350
0.0036 0.0039 0.0043	11.0 × 27.0 × 26.0	4.9	90706 90707 90708	300
0.0047 0.0051	11.5 × 27.5 × 26.0	5.3	90709 90711	300

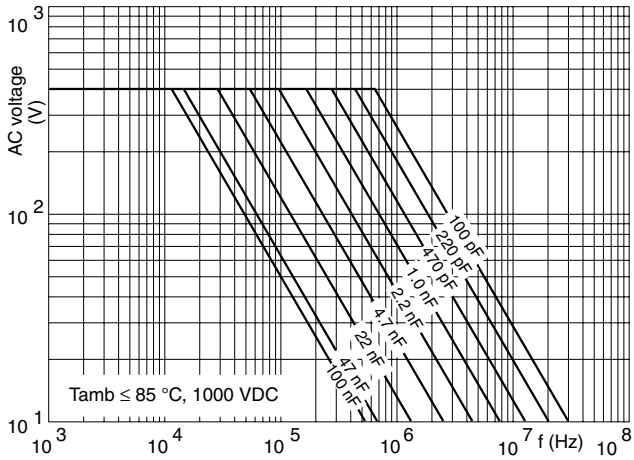
MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY

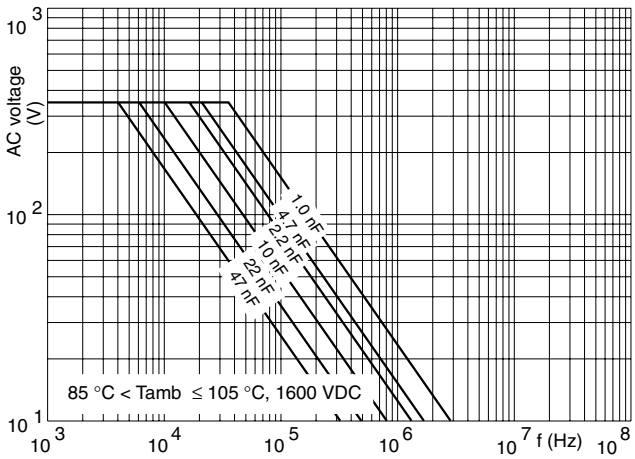




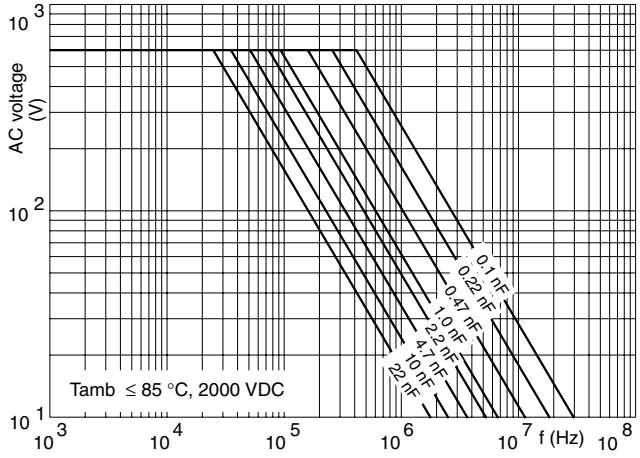


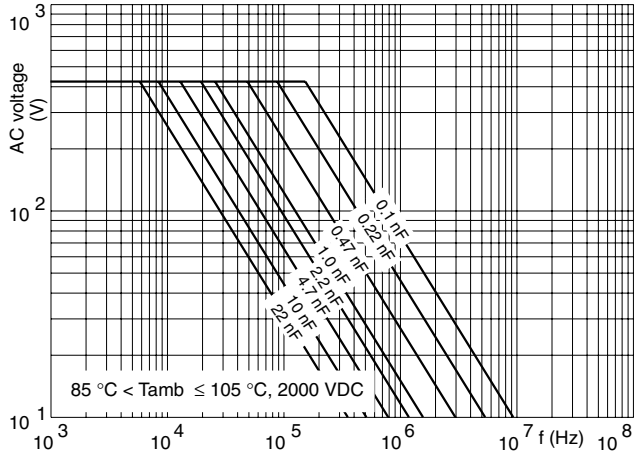


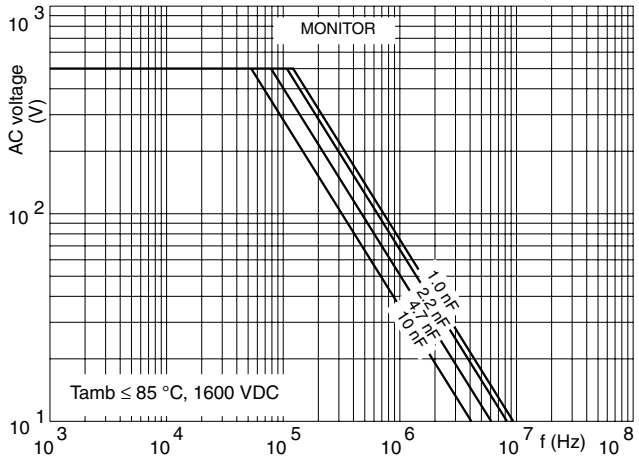


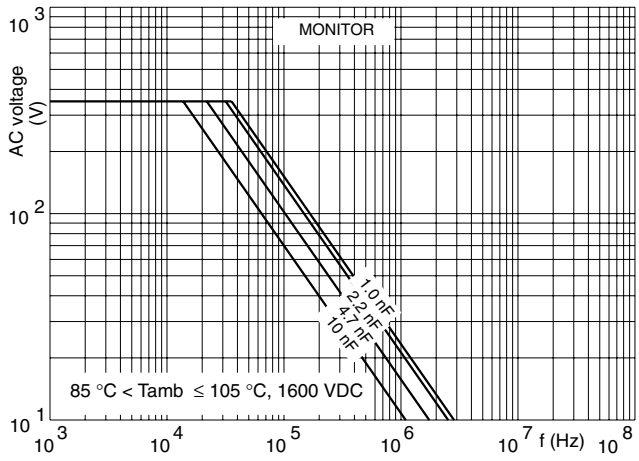


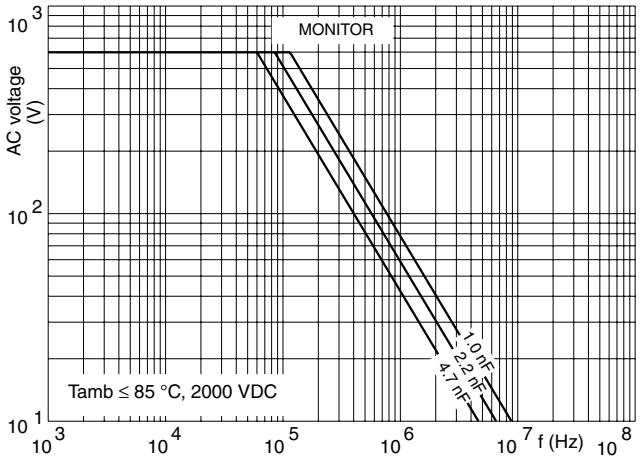
AC and Pulse Polypropylene
Film Capacitors KP/MKP
Radial Epoxy Lacquered Type

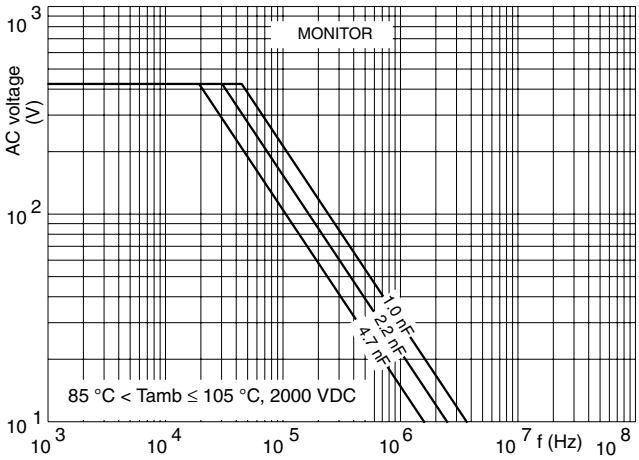


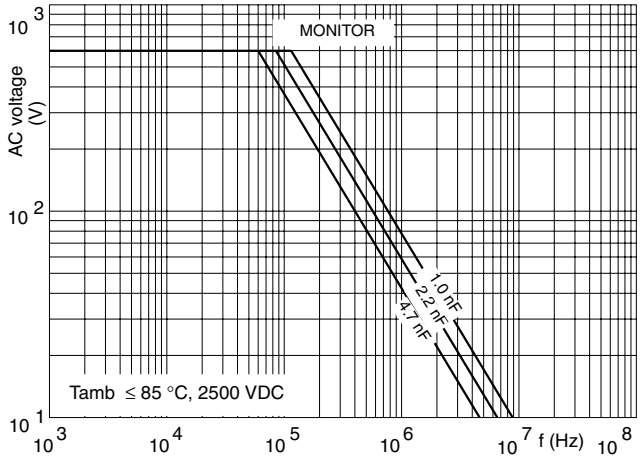


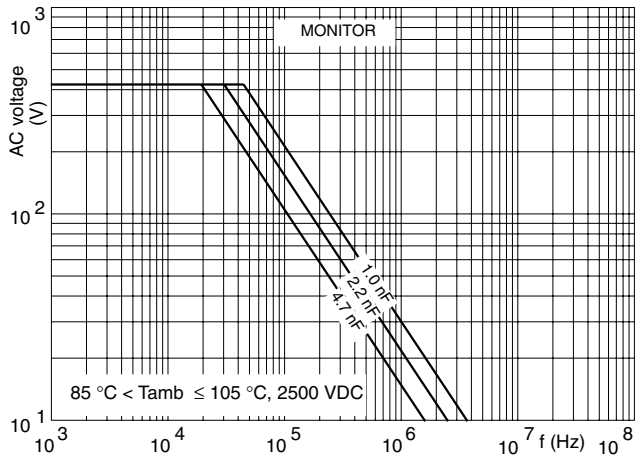




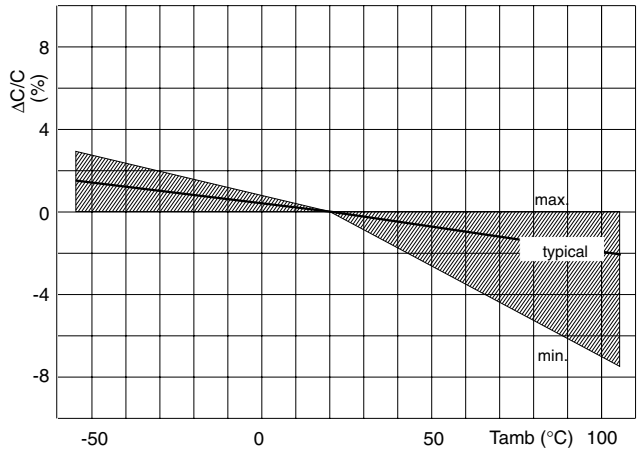




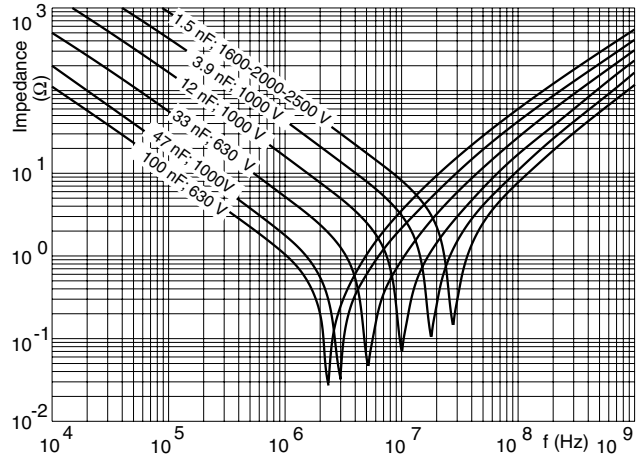




CAPACITANCE



IMPEDANCE



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