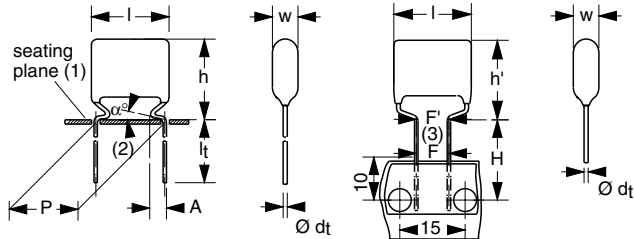
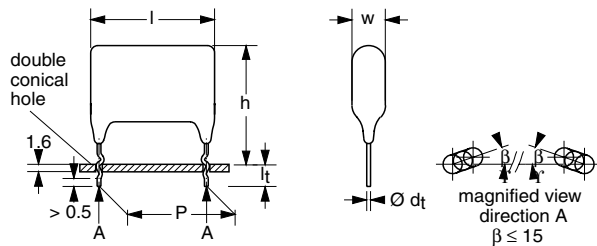


AC and Pulse Polypropylene Film Capacitors KP/MKP Radial Epoxy Lacquered Type



Dimensions in mm

- (1) Hole $\varnothing 1.3$ for $d_t = 0.8$ mm
- (2) $0 \leq \alpha < 50^\circ$
- (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.

LEADS

Tinned wire

CAPACITANCE RANGE (E24 SERIES)

0.1 to 270 nF

CAPACITANCE TOLERANCE

$\pm 5\%$; $\pm 3.5\%$

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 $C \leq 5.6$ nF: grade 2

STABILITY GRADE

Grade 2

DETAIL SPECIFICATION

For more detailed data and test requirements contact:

filmcaps.roeselare@vishay.com



RoHS
COMPLIANT



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

Vishay BCcomponents

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	PREFERRED TYPES							
			C-TOL	630 V	1000 V	1600 V	2000 V	1600 V monitor type	2000 V monitor type	2500 V monitor type
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	–	–
		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: Pitch = 10 mm, 15 mm and 7.5 mm (bent back) Pitch = 22.5 mm Pitch = 27.5 mm	at 10 kHz	at 100 kHz
	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
	$\leq 8 \times 10^{-4}$	$\leq 15 \times 10^{-4}$
	$\leq 8 \times 10^{-4}$	$\leq 20 \times 10^{-4}$
Rated voltage pulse slope (dU/dt): Pitch = 10 mm Pitch = 15 mm and 7.5 mm (bent back) Pitch = 22.5 mm Pitch = 27.5 mm	15000 V/μs 8000 V/μs 2800 V/μs 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	

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

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



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	DIMENSIONS $w_{\max} \times h (h')_{\max} \times l_{\max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 AND PACKAGING					
			LOOSE IN BOX		REEL			
			$l_t = 5.0 \pm 1.0$ mm	all leads	REEL $\varnothing$ 500 mm		REEL $\varnothing$ 356 mm	REEL $\varnothing$ 500 mm
			C-tol = ± 5 %	SPQ	C-tol = ± 5 %	SPQ	SPQ	SPQ
			last 5 digits of catalog number		last 5 digits of catalog number			
C (μF)	pitch = 22.5 ± 0.4 mm; $d_t = 0.80 \pm 0.08$ 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; $d_t = 0.80 \pm 0.08$ 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; $d_t = 0.60 \pm 0.06$ 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	
			$l_t = 4.0 + 1.0/- 0.5 \text{ mm}$	
			C-tol = $\pm 5 \%$	SPQ
			last 5 digits of catalog number	
C (pF)	pitch = $15.0 \pm 1.0 \text{ mm}$; $d_t = 0.80 \pm 0.08 \text{ mm}$			
3000 3300	$5.0 \times 17.0 \times 18.5$	1.0	90325 90326	2000
3600 3900 4300 4700 5100 5600	$5.5 \times 17.5 \times 18.5$	1.1	90327 90328 90329 90331 90332 90333	2000
6200 6800 7500 8200 9100 10000 11000 12000 13000 15000 16000	$6.0 \times 18.0 \times 18.5$	1.3	90334 90335 90336 90337 90338 90339 90236 90341 90342 90343 90344	2000
18000 20000	$6.5 \times 18.5 \times 18.5$	1.4	90218 90345	1750
22000	$7.0 \times 19.0 \times 18.5$	1.5	90219	1500
24000	$7.5 \times 19.5 \times 18.5$	1.7	90221	1400
27000 30000	$8.0 \times 20.0 \times 18.5$	1.9	90223 90346	1250
33000	$8.5 \times 20.5 \times 18.5$	2.0	90347	1200
36000 39000	$9.5 \times 21.5 \times 18.5$	2.3	on request	1000
C (μF)	pitch = $22.5 \pm 1.0 \text{ mm}$; $d_t = 0.80 \pm 0.08 \text{ mm}$			
0.036 0.039 0.043 0.047 0.051 0.056 0.062	$7.0 \times 23.0 \times 26.0$	2.7	90348 90349 90351 90352 90353 90354 90355	600
0.068	$7.5 \times 23.5 \times 26.0$	3.0	90356	550
0.075 0.082	$8.0 \times 24.0 \times 26.0$	3.3	90357 90358	500
0.091	$8.5 \times 24.5 \times 26.0$	3.8	90359	450
0.1	$9.0 \times 25.0 \times 26.0$	4.0	90361	450
0.11	$9.5 \times 25.5 \times 26.0$	4.3	90362	400
0.12	$10.0 \times 26.0 \times 26.0$	4.7	90363	350
C (μF)	pitch = $27.5 \pm 1.0 \text{ mm}$; $d_t = 0.80 \pm 0.08 \text{ mm}$			
0.13	$9.5 \times 25.5 \times 30.0$	4.7	90364	450
0.15	$10.0 \times 26.0 \times 30.0$	5.2	90365	400
0.16	$10.5 \times 26.5 \times 30.0$	5.5	90366	350
0.18	$11.0 \times 27.0 \times 30.0$	6.0	90367	350
0.2	$11.5 \times 27.5 \times 30.0$	6.6	90368	350



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	DIMENSIONS $w_{max} \times h(h')_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 AND PACKAGING	
			LOOSE IN BOX	
			$l_t = 4.0 \pm 1.0/-0.5$ mm	
			C-tol = $\pm 5\%$	SPQ
			last 5 digits of catalog number	
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: Pitch = 10 mm, 15 mm and 7.5 mm (bent back) Pitch = 22.5 mm Pitch = 27.5 mm	at 10 kHz	at 100 kHz
	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
	$\leq 6 \times 10^{-4}$	$\leq 15 \times 10^{-4}$
Rated voltage pulse slope (dU/dt) _R : Pitch = 10 mm Pitch = 15 mm and 7.5 mm (bent back) Pitch = 22.5 mm Pitch = 27.5 mm	27000 V/μs 15000 V/μs 5000 V/μs 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 for C > 47 nF	1600 V; 1 minute 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			
			$l_t = 5.0 \pm 1.0$ mm	all leads	REEL $\varnothing$ 500 mm		REEL $\varnothing$ 356 mm	REEL $\varnothing$ 500 mm
			C-tol = ± 5 %	SPQ	C-tol = ± 5 %	SPQ	SPQ	SPQ
			last 5 digits of catalog number		last 5 digits of catalog number			
C (pF)	pitch = 10.0 $\pm$ 0.4 mm; d_t = 0.60 $\pm$ 0.06 mm		pitch = 7.5 mm (bent back)			pitch = 10.0 mm		
100	5.0 $\times$ 13.0 $\times$ 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																											
			$l_t = 5.0 \pm 1.0$ mm	all leads	REEL $\varnothing$ 500 mm		REEL $\varnothing$ 356 mm	REEL $\varnothing$ 500 mm																								
			C-tol = ± 5 %	SPQ	C-tol = ± 5 %	SPQ	SPQ	SPQ																								
			last 5 digits of catalog number		last 5 digits of catalog number																											
150 160 180 200 220 240 270 300 330 360 390 430 470 510 560 620 680 750 820 910	$5.5 \times 13.5 \times 14.5$	0.55 0.55 0.55 0.55 0.60 0.60 0.60 0.60 0.60 0.60 0.60 0.65 0.70 0.75 0.75 0.80 0.80 0.80 0.70 0.70 0.70	24151 24161 24181 24201 24221 24241 24271 24301 24331 24361 24391 24431 24471 24511 24561 24621 24681 24751 24821 24911	2000				1100																								
1000 1100 1200 1300 1500		$6.0 \times 14.0 \times 14.5$	0.75 0.85 0.90 0.85 0.90						24102 24112 24122 24132 24152	1750				1000																		
C (pF)			pitch = 15.0 ± 0.4 mm; $d_t = 0.80 \pm 0.08$ mm						pitch = 7.5 mm (bent back)						pitch = 15.0 mm																	
1600 1800 2000 2200 2400			$5.5 \times 14.5 (16.0) \times 18.5$						1.1						24162 24182 24202 24222 24242	2000	26162 26182 26202 26222 26242	900	500	1100												
2700 3000 3300 3600 3900															$6.0 \times 15.0 (16.5) \times 18.5$		1.2				24272 24302 24332 24362 24392	2000	26272 26302 26332 26362 26392	800	450	1000						
4300 4700 5100 5600 6200 6800																					$6.0 \times 15.0 (16.5) \times 18.5$		1.2				24432 24472 24512 24562 24622 24682	2000	26432 26472 26512 26562 26622 26682	800	450	1000
7500 8200 9100		$7.0 \times 16.0 (17.5) \times 18.5$								1.4	24752 24822 24912	1500	26752 26822 26912	700													400		800			
10000 11000 12000											$7.5 \times 16.5 (18.0) \times 18.5$ $8.0 \times 17.0 (18.5) \times 18.5$		1.6 1.8																			
13000			$8.5 \times 17.5 (19.0) \times 18.5$						1.9		24133		1000			26133		550	300	700												



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	DIMENSIONS $w_{\max} \times h (h')_{\max} \times l_{\max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 AND PACKAGING					
			LOOSE IN BOX		REEL			
			$l_t = 5.0 \pm 1.0$ mm	all leads	REEL $\varnothing$ 500 mm	REEL $\varnothing$ 356 mm	REEL $\varnothing$ 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; $d_t = 0.80 \pm 0.08$ 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; $d_t = 0.80 \pm 0.08$ 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; $d_t = 0.60 \pm 0.06$ mm			
100 110 120 130	5.0 × 16.0 × 14.5	0.50	90373	2000
			90374	
			90375	
			90376	

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



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

Vishay BCcomponents

	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 %	SPQ
			last 5 digits of catalog number	
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; $d_t = 0.80 \pm 0.08$ 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; $d_t = 0.80 \pm 0.08$ 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: Pitch = 15 mm and 7.5 mm (bent back) Pitch = 22.5 mm Pitch = 27.5 mm	at 10 kHz	at 100 kHz
	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
	$\leq 6 \times 10^{-4}$	$\leq 15 \times 10^{-4}$
Rated voltage pulse slope (dU/dt) _R : Pitch = 15 mm and 7.5 mm (bent back) Pitch = 22.5 mm Pitch = 27.5 mm	21000 V/μs 7000 V/μs 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	

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

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



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

Vishay BCcomponents

	DIMENSIONS $w_{\max} \times h (h')_{\max} \times l_{\max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 AND PACKAGING					
			LOOSE IN BOX		REEL			
			$l_t = 5.0 \pm 1.0$ mm	all leads	REEL $\varnothing$ 500 mm		REEL $\varnothing$ 356 mm	REEL $\varnothing$ 500 mm
			C-tol = ± 5 %	SPQ	C-tol = ± 5 %	SPQ	SPQ	SPQ
			last 5 digits of catalog number		last 5 digits of catalog number			
C (μF)	pitch = 27.5 ± 0.5 mm; $d_t = 0.80 \pm 0.08$ 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 %	SPQ
			last 5 digits of catalog number	
C (pF)	pitch = 15.0 ± 1.0 mm; $d_t = 0.80 \pm 0.08$ mm			
680	$5.5 \times 17.5 \times 18.5$	0.75	90456	2000
750			90457	
820			90458	
910	$6.0 \times 18.0 \times 18.5$	0.80	90459	2000
1000		0.85	90461	
1100		0.85	90462	
1200		0.90	90463	
1300		0.95	90464	
1500	$5.5 \times 17.5 \times 18.5$	1.1	90465	2000
1600			90466	
1800	$6.0 \times 18.0 \times 18.5$	1.2	90467	2000
2000	$6.5 \times 18.5 \times 18.5$	1.3	90468	1750
2200			90469	
2400	$7.0 \times 19.0 \times 18.5$	1.4	90471	1500
2700	$7.5 \times 19.5 \times 18.5$	1.6	90472	1400
3000			90473	
3300	$8.0 \times 20.0 \times 18.5$	1.9	90141	1250
3600	$8.5 \times 20.5 \times 18.5$	2.3	90142	1200
3900	$9.0 \times 21.0 \times 18.5$	2.5	90143	1100
4300			90144	
C (μF)	pitch = 22.5 ± 1.0 mm; $d_t = 0.80 \pm 0.08$ mm			
0.0047	$6.0 \times 22.0 \times 26.0$	2.4	90145	750
0.0051			90146	
0.0056			90147	
0.0062	$6.5 \times 22.5 \times 26.0$	2.6	90148	700
0.0068			90149	
0.0075	$7.0 \times 23.0 \times 26.0$	2.8	90151	600
0.0082			90152	
0.0083			90202	
0.0091	$7.5 \times 23.5 \times 26.0$	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 %	SPQ
			last 5 digits of catalog number	
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; $d_t = 0.80 \pm 0.08$ 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: Pitch = 15 mm and 7.5 mm (bent back) Pitch = 22.5 mm Pitch = 27.5 mm	at 10 kHz	at 100 kHz
	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
	$\leq 6 \times 10^{-4}$	$\leq 15 \times 10^{-4}$
Rated voltage pulse slope (dU/dt) _R : Pitch = 15 mm and 7.5 mm (bent back) Pitch = 22.5 mm Pitch = 27.5 mm	30000 V/μs 10000 V/μs 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			
			$l_t = 5.0 \pm 1.0$ mm	all leads	REEL $\varnothing$ 500 mm		REEL $\varnothing$ 356 mm	REEL $\varnothing$ 500 mm
			C-tol = ± 5 %	SPQ	C-tol = ± 5 %	SPQ	SPQ	SPQ
			last 5 digits of catalog number		last 5 digits of catalog number			
C (pF)	pitch = 15.0 ± 0.4 mm; $d_t = 0.80 \pm 0.08$ mm		pitch = 7.5 mm (bent back)			pitch = 15.0 mm		
100	$5.5 \times 14.5 (15.0) \times 18.5$	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			



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

Vishay BCcomponents

	DIMENSIONS $w_{\max} \times h(h')_{\max} \times l_{\max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 AND PACKAGING																
			LOOSE IN BOX		REEL														
			$l_t = 5.0 \pm 1.0$ mm	all leads	REEL $\varnothing$ 500 mm		REEL $\varnothing$ 356 mm	REEL $\varnothing$ 500 mm											
			C-tol = ± 5 %	SPQ	C-tol = ± 5 %	SPQ	SPQ	SPQ											
			last 5 digits of catalog number		last 5 digits of catalog number														
160 180 200 220 240 270 300 330 360 390 430 470 510 560	5.5×14.5 (15.0) $\times$ 18.5	0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.80 0.80 0.80	44161 44181 44201 44221 44241 44271 44301 44331 44361 44391 44431 44471 44511 44561	2000	46161 46181 46201 46221 46241 46271 46301 46331 46361 46391 46431 46471 46511 46561	900	500	1100											
620 680 750		0.85 0.85 0.90	44621 44681 44751		46621 46681 46751				800	450	1000								
820		0.95	44821		46821														
910		5.5×14.5 (16.0) $\times$ 18.5	1.1		44911				2000	46911	900	500	1100						
1000 1100 1200		6.0×15.0 (16.5) $\times$ 18.5	1.2		44102 44112 44122				2000	46102 46112 46122	800	450	1000						
1300					6.5×15.5 (17.0) $\times$ 18.5					1.3				44132	1500	46132	750	400	900
1500					7.0×16.0 (17.5) $\times$ 18.5					1.4				44152	1500	46152	700	400	800
1600 1800		7.5×16.5 (18.0) $\times$ 18.5	1.5		44162 44182				1250	46162 46182	650	350	800						
2000					8.0×17.0 (18.5) $\times$ 18.5					1.6				44202	1250	46202	600	350	750
2200		8.5×17.5 (19.0) $\times$ 18.5	1.7		44222				1000	46222	550	300	700						
2400		9.0×18.0 (19.5) $\times$ 18.5	1.8		44242				1000	46242	550	300	650						
2700		9.5×18.5 (20.0) $\times$ 18.5	2.0		44272				900	46272	500	300	600						
C (μF)	pitch = 22.5 ± 0.4 mm; $d_t = 0.80 \pm 0.08$ mm				pitch = 7.5 mm (bent back)			pitch = 22.5 mm											
0.003 0.0033 0.0036 0.0039	$6.0 \times 19.0 \times 26.0$	2.1	44302 44332 44362 44392	800				650											
0.0043 0.0047			$6.5 \times 19.5 \times 26.0$						2.3	44432 44472	750	600							
0.0051 0.0056	$7.0 \times 20.0 \times 26.0$	2.6	44512 44562	650				550											
0.0062	$7.5 \times 20.5 \times 26.0$	2.8	44622	600				500											
0.0068 0.0075	$8.0 \times 21.0 \times 26.0$	3.0	44682 44752	550				500											
0.0082			$8.5 \times 21.5 \times 26.0$	3.3				44822	500	450									
0.0091	$9.0 \times 22.0 \times 26.0$	3.6	44912	450				450											
0.01	$9.5 \times 22.5 \times 26.0$	3.8	44103	400				400											
C (μF)	pitch = 27.5 ± 0.5 mm; $d_t = 0.80 \pm 0.08$ mm							pitch = 7.5 mm (bent back)			pitch = 27.5 mm								
0.011	$9.0 \times 22.0 \times 30.0$	3.8	44113	550															
0.012	$9.5 \times 22.5 \times 30.0$	4.1	44123	500															
0.013	$10.0 \times 23.0 \times 30.0$	4.4	44133	500															
0.015	$10.5 \times 23.5 \times 30.0$	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			
			$l_t = 5.0 \pm 1.0$ mm	all leads	REEL $\varnothing$ 500 mm		REEL $\varnothing$ 356 mm	REEL $\varnothing$ 500 mm
			C-tol = ± 5 %	SPQ	C-tol = ± 5 %	SPQ	SPQ	SPQ
			last 5 digits of catalog number		last 5 digits of catalog number			
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 %	SPQ
			last 5 digits of catalog number	
C (pF)	pitch = 15.0 ± 1.0 mm; $d_t = 0.80 \pm 0.08$ mm			
100	$5.5 \times 17.5 \times 18.5$	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	$6.0 \times 18.0 \times 18.5$	0.85	90502	2000
680		0.85	90229	
750		0.90	90503	
820	$6.5 \times 18.5 \times 18.5$	0.95	90504	1750
910	$5.5 \times 17.5 \times 18.5$	1.1	90505	2000
1000	$6.0 \times 18.0 \times 18.5$	1.3	90225	2000
1100			90506	
1200			90226	
1300	$6.5 \times 18.5 \times 18.5$	1.3	90507	1750
1500	$7.0 \times 19.0 \times 18.5$	1.5	90266	1500
1600	$7.5 \times 19.5 \times 18.5$	1.7	90508	1400
1800			90237	
2000	$8.0 \times 20.0 \times 18.5$	1.7	90509	1250
2200	$8.5 \times 20.5 \times 18.5$	2.3	90227	1200



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

Vishay BCcomponents

	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 = $\pm 5\%$	SPQ
			last 5 digits of catalog number	
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; $d_t = 0.80 \pm 0.08$ 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; $d_t = 0.80 \pm 0.08$ 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: Pitch = 15 mm and 7.5 mm (bent back) Pitch = 22.5 mm Pitch = 27.5 mm	at 10 kHz	at 100 kHz
	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
	$\leq 6 \times 10^{-4}$	$\leq 15 \times 10^{-4}$
Rated voltage pulse slope (dU/dt) _R : Pitch = 15 mm and 7.5 mm (bent back) Pitch = 22.5 mm Pitch = 27.5 mm	21000 V/μs	
	7000 V/μs	
	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	

$U_{Rdc} = 1600 \text{ V}$; $U_{Rac} = 500 \text{ V}$; $U_{p-p} = 1400 \text{ V}$ (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			
			$l_t = 5.0 \pm 1.0 \text{ mm}$	all leads	REEL $\varnothing$ 500 mm		REEL $\varnothing$ 356 mm	REEL $\varnothing$ 500 mm
			C-tol = $\pm 5 \%$	SPQ	C-tol = $\pm 5 \%$	SPQ	SPQ	SPQ
			last 5 digits of catalog number		last 5 digits of catalog number			
C (pF)	pitch = $15.0 \pm 0.4 \text{ mm}$; $d_t = 0.80 \pm 0.08 \text{ mm}$				pitch = 7.5 mm (bent back)		pitch = 15.0 mm	
1000	$7.5 \times 16.5 (18.0) \times 18.5$	1.6	64102	1250	66102	650	350	800
1100 1200	$8.0 \times 17.0 (18.5) \times 18.5$	1.7	64112 64122	1250	66112 66122	600	350	750
1300	$8.5 \times 17.5 (19.0) \times 18.5$	1.8	64132	1000	66132	550	300	700
1500	$9.0 \times 18.0 (19.5) \times 18.5$	2.0	64152	1000	66152	550	300	650
1600	$9.5 \times 18.5 (20.0) \times 18.5$	2.3	64162	900	66162	500	300	600
C (μ F)	pitch = $22.5 \pm 0.4 \text{ mm}$; $d_t = 0.80 \pm 0.08 \text{ mm}$				pitch = 7.5 mm (bent back)		pitch = 22.5 mm	
0.0018 0.002	$6.0 \times 19.0 \times 26.0$	2.0	64182 64202	800				650
0.0022	$6.5 \times 19.5 \times 26.0$	2.1	64222	750				600
0.0024 0.0027	$7.0 \times 20.0 \times 26.0$	2.3	64242 64272	650				550
0.003	$7.5 \times 20.5 \times 26.0$	2.5	64302	600				500
0.0033 0.0036 0.0039	$8.0 \times 21.0 \times 26.0$	2.6	64332 64362 64392	550				500
0.0043 0.0047 0.0051 0.0056	$8.5 \times 21.5 \times 26.0$	2.9	64432 64472 64512 64562	500				450
0.0062	$9.0 \times 22.0 \times 26.0$	3.1	64622	450				450
0.0068	$9.5 \times 22.5 \times 26.0$	3.5	64682	450				400
0.0075	$10.0 \times 23.0 \times 26.0$	3.6	64752	400				400
0.0082	$10.5 \times 23.5 \times 26.0$	4.0	64822	350				350

$U_{Rdc} = 1600 \text{ V}$; $U_{Rac} = 500 \text{ V}$; $U_{p-p} = 1400 \text{ V}$ (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	
			$l_t = 4.0 + 1.0/- 0.5 \text{ mm}$	
			C-tol = $\pm 5 \%$	
			last 5 digits of catalog number	SPQ
C (pF)	pitch = $15.0 \pm 0.4 \text{ mm}$; $d_t = 0.80 \pm 0.08 \text{ mm}$			
1000	$7.5 \times 19.5 \times 18.5$	1.6	90646	1400
1100	$8.0 \times 20.0 \times 18.5$	1.7	90647	1250
1200			90648	
1300	$8.5 \times 20.5 \times 18.5$	1.8	90649	1200
1500	$9.0 \times 21.0 \times 18.5$	2.0	90651	1100
1600	$9.5 \times 21.5 \times 18.5$	2.3	90652	1000



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

Vishay BCcomponents

	DIMENSIONS $w_{\max} \times h (h')_{\max} \times l_{\max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 AND PACKAGING	
			LOOSE IN BOX	
			$l_t = 4.0 + 1.0/- 0.5 \text{ mm}$	
			C-tol = $\pm 5 \%$	SPQ
			last 5 digits of catalog number	
C (μF)	pitch = 22.5 ± 1.0 mm; d _t = 0.80 ± 0.08 mm			
0.0018 0.002	6.0 × 22.0 × 26.0	2.0	90653 90654	750
0.0022	6.5 × 22.5 × 26.0	2.1	90655	700
0.0024 0.0027	7.0 × 23.0 × 26.0	2.3	90656 90657	600
0.003	7.5 × 23.5 × 26.0	2.5	90658	550
0.0033 0.0036 0.0039	8.0 × 24.0 × 26.0	2.6	90659 90661 90662	500
0.0043 0.0047 0.0051 0.0056	8.5 × 24.5 × 26.0	2.9	90663 90664 90665 90666	450
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
			$l_t = 5.0 \pm 1.0$ mm	all leads	SPQ
			C-tol = ± 5 %	SPQ	
			last 5 digits of catalog number		
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	74102 74112	800	650
0.0012 0.0013	6.5 × 19.5 × 26.0	2.3	74122 74132	750	600
0.0015 0.0016	7.0 × 20.0 × 26.0	2.6	74152 74162	650	550

	DIMENSIONS $w_{\max} \times h (h')_{\max} \times l_{\max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 AND PACKAGING		
			LOOSE IN BOX		REEL
			$l_t = 5.0 \pm 1.0$ mm	all leads	SPQ
			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	
			$l_t = 4.0 + 1.0/- 0.5 \text{ mm}$	
			C-tol = $\pm 5 \%$	SPQ
			last 5 digits of catalog number	
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	90672 90673	750
0.0012 0.0013	6.5 × 22.5 × 26.0	2.3	90674 90675	700
0.0015 0.0016	7.0 × 23.0 × 26.0	2.6	90676 90677	600
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 0.0039 0.0043	11.0 × 27.0 × 26.0	4.9	90686 90687 90688	300
0.0047 0.0051	11.5 × 27.5 × 26.0	5.3	90689 90691	300

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	



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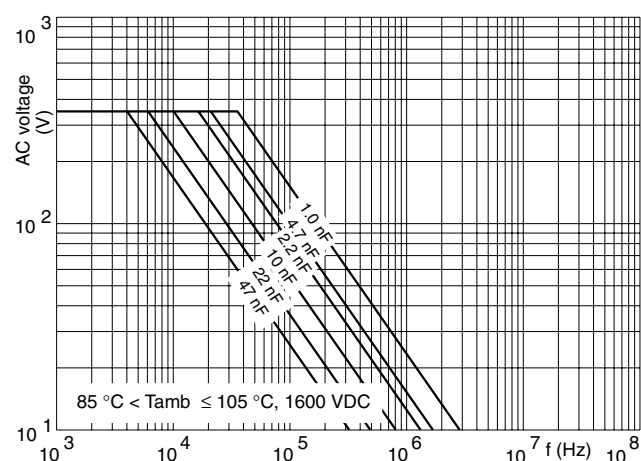
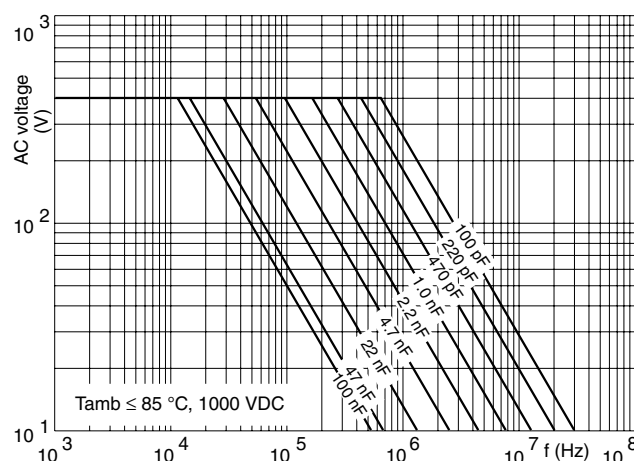
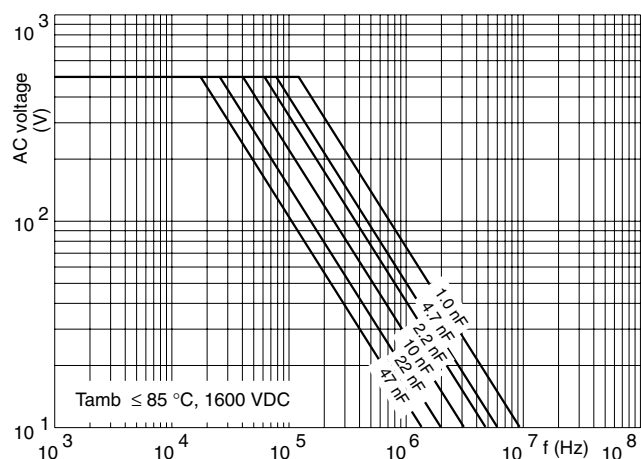
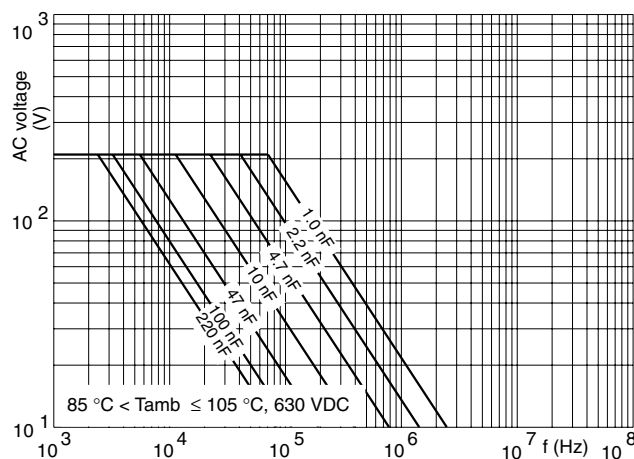
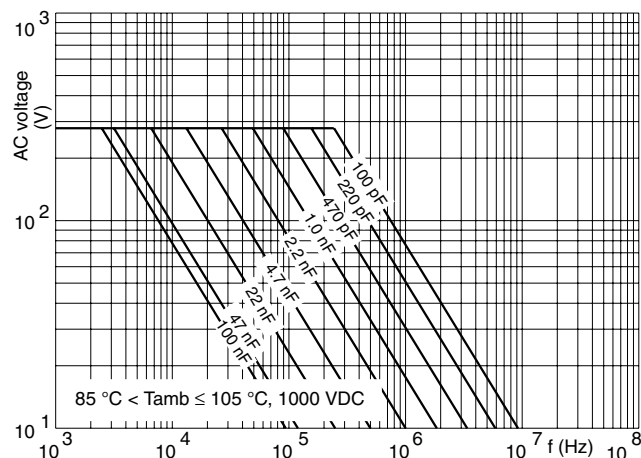
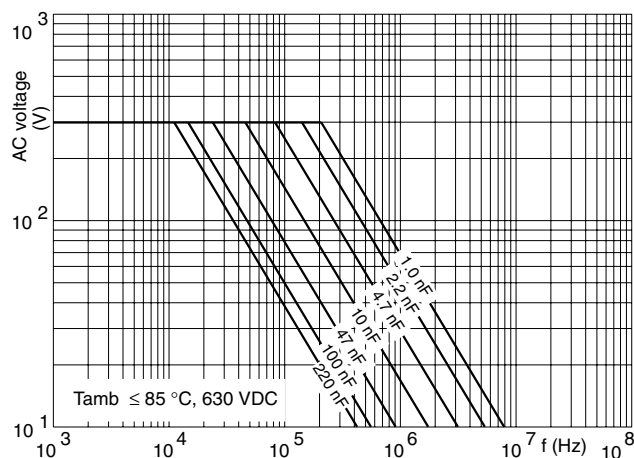
$U_{Rdc} = 2500\text{ V}$; $U_{Rac} = 600\text{ V}$; $U_{p-p} = 1700\text{ V}$ (monitor standard)

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

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

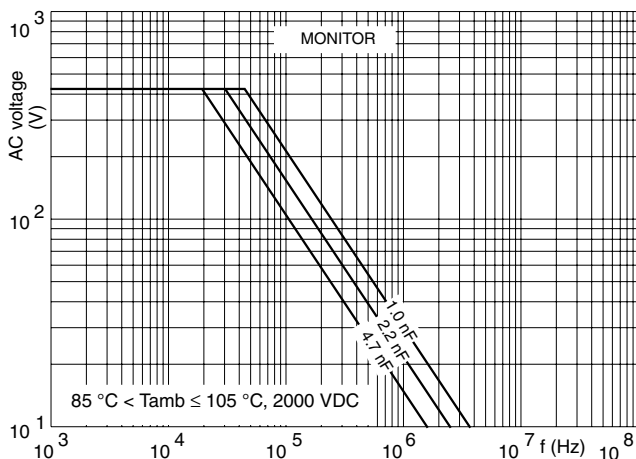
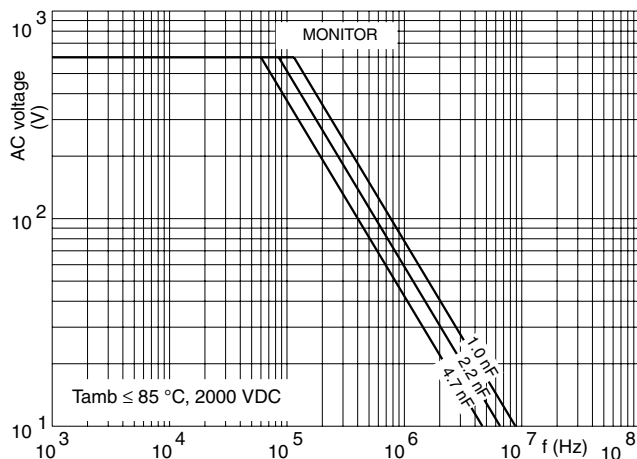
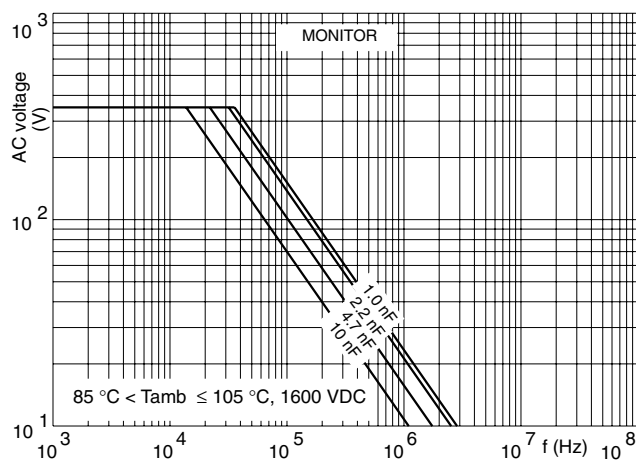
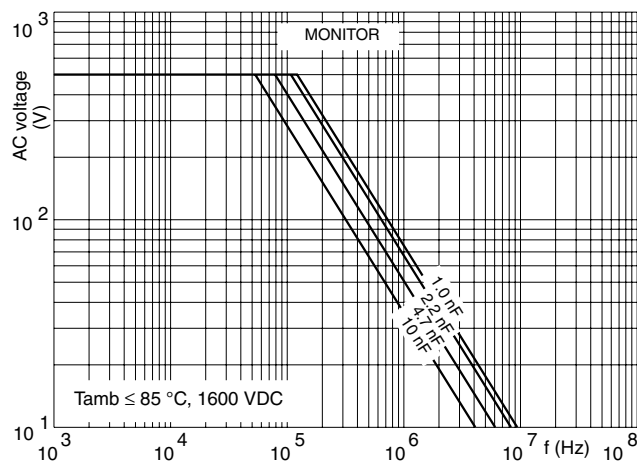
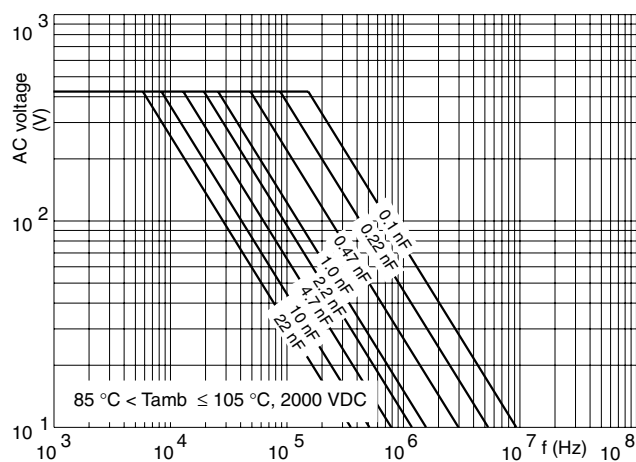
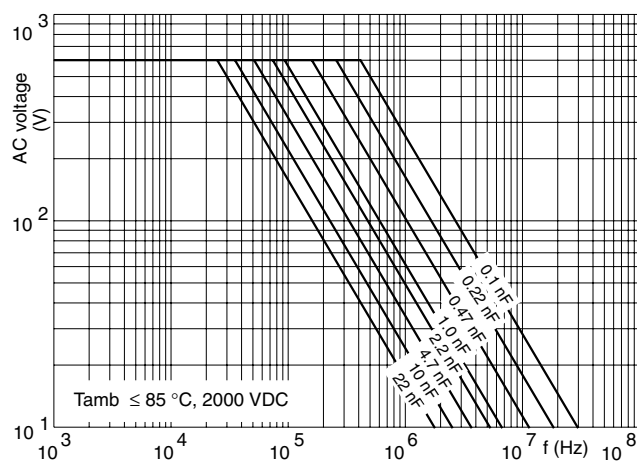
	DIMENSIONS $w_{\max} \times h (h')_{\max} \times l_{\max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 375 AND PACKAGING	
			LOOSE IN BOX	
			$l_t = 4.0 + 1.0/- 0.5 \text{ mm}$	
			C-tol = $\pm 5 \%$	SPQ
last 5 digits of catalog number				
C (μF)	pitch = $22.5 \pm 0.4 \text{ mm}$; $d_t = 0.80 \pm 0.08 \text{ mm}$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

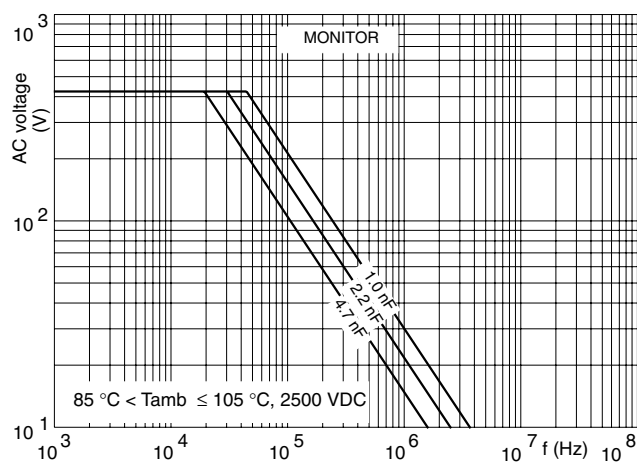
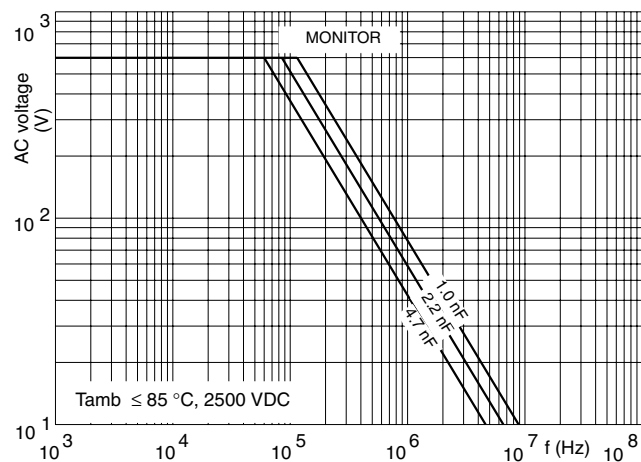
MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY



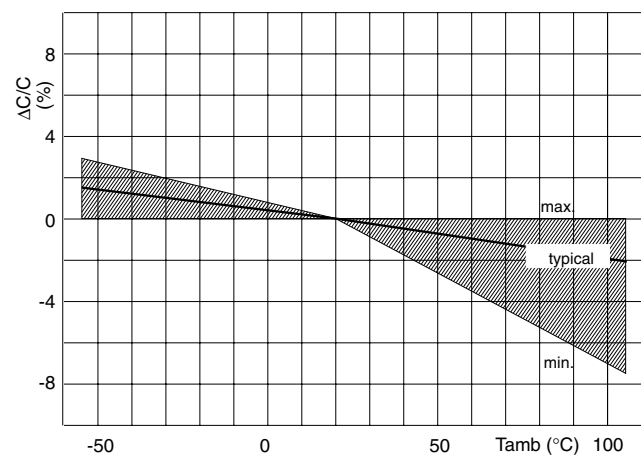
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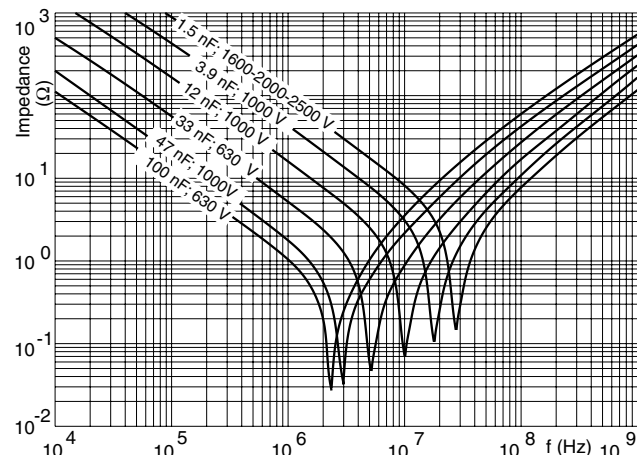




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