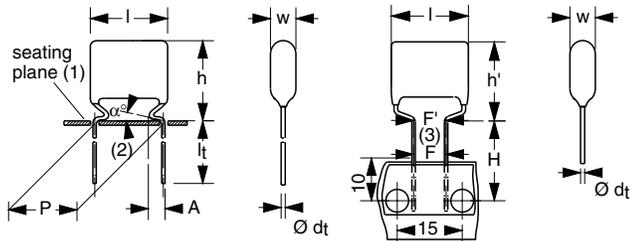
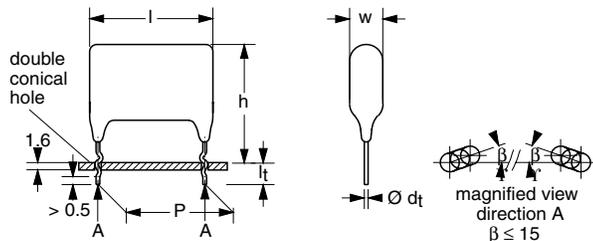


AC and Pulse Polypropylene Film Capacitors KP/MKP Radial Epoxy Lacquered Type



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





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

2222	375	XX	XX	X
BFC2*	375	XX	XX	X

Example:
104 = 10 x 10 = 100 nF

* 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	-	-
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: 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
	≤ 6 × 10 ⁻⁴	≤ 10 × 10 ⁻⁴
	≤ 8 × 10 ⁻⁴	≤ 15 × 10 ⁻⁴
	≤ 8 × 10 ⁻⁴	≤ 20 × 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)

CATALOG NUMBER 2222 375 AND PACKAGING														
C (pF)	DIMENSIONS $W_{max} \times h (h')_{max} \times l_{max}$ (mm)	MASS (g)	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									
	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 × 13.0 × 14.5	0.65	14681	2000					1200					
		0.65	14751											
820		0.70	14821											
910		0.70	14911											
1000		0.70	14102											
1100		0.75	14112											
1200		0.75	14122											
1300		0.75	14132											
1500	0.80	14152	1750						1000					
1600	0.85	14162												
1800	0.80	14182												
2000	0.85	14202												
2200	6.0 × 14.0 × 14.5	0.90	14222											
2400		1.0	14242											
2700	6.5 × 14.5 × 14.5	1.1	14272	1500					900					
	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 × 14.0 (15.5) × 18.5	1.0	14302	2000	16302	1000	550	1200						
			14332		16332									
3600			14362		16362									
3900			14392		16392									
4300			5.5 × 14.5 (16.0) × 18.5		1.1				14432	2000	16432	900	500	1100
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	1500											
18000	14183	16183												
20000	6.5 × 15.5 (17.0) × 18.5	1.3	14203	1500	16203	750	400	900						
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 39000	9.5 × 18.5 (20.0) × 18.5	2.3	on request	900	on request	500	300	600						



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
last 5 digits of catalog number	last 5 digits of catalog number	SPQ					
C (μF)	pitch = 22.5 \pm 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 \times 20.0 \times 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 \times 20.5 \times 26.0	3.0	14683	600		500	
0.075	8.0 \times 21.0 \times 26.0	3.3	14753	550		500	
0.082			14823				
0.091	8.5 \times 21.5 \times 26.0	3.8	14913	500		450	
0.1	9.0 \times 22.0 \times 26.0	4.0	14104	450		450	
0.11	9.5 \times 22.5 \times 26.0	4.3	14114	400		400	
0.12	10.0 \times 23.0 \times 26.0	4.7	14124	400	400		
C (μF)	pitch = 27.5 \pm 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 \times 22.5 \times 30.0	4.7	14134	500			
0.15	10.0 \times 23.0 \times 30.0	5.2	14154	500			
0.16	10.5 \times 23.5 \times 30.0	5.5	14164	450			
0.18	11.0 \times 24.0 \times 30.0	6.0	14184	400			
0.2	11.5 \times 24.5 \times 30.0	6.6	14204	400			
0.22	12.5 \times 25.5 \times 30.0	7.1	14224	350			
0.24	13.0 \times 26.0 \times 30.0	7.7	14244	300			
0.27	13.5 \times 26.5 \times 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 %	SPQ
last 5 digits of catalog number				
C (pF)	pitch = 10.0 \pm 1.0 mm; $d_t = 0.60 \pm 0.06$ mm			
680	5.0 \times 16.0 \times 14.5	0.65	90308	2000
750		0.65	90309	
820	5.5 \times 16.5 \times 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 \times 17.0 \times 14.5	0.80	90319	1750
2000		0.85	90321	
2200		0.90	90322	
2400		1.0	90323	
2700	6.5 \times 17.5 \times 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 %	SPQ
			last 5 digits of catalog number	
C (pF)	pitch = 15.0 \pm 1.0 mm; $d_t = 0.80 \pm 0.08$ 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 mm; $d_t = 0.80 \pm 0.08$ 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 mm; $d_t = 0.80 \pm 0.08$ 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



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				
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
	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
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 Ø 500 mm	REEL Ø 356 mm	REEL Ø 500 mm
			C-tol = ± 5 %	SPQ	C-tol = ± 5 %	SPQ	SPQ
last 5 digits of catalog number	last 5 digits of catalog number						
C (pF)	pitch = 10.0 ± 0.4 mm; $d_t = 0.60 \pm 0.06$ 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				

CATALOG NUMBER 2222 375 AND PACKAGING								
DIMENSIONS $w_{max} \times h (h')_{max} \times l_{max}$ (mm)	MASS (g)	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	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	0.75 0.85 0.90 0.85 0.90	24102 24112 24122 24132 24152	1750					1000
C (pF)	pitch = 15.0 \pm 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	2000	24162 24182 24202 24222 24242	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	2000	24272 24302 24332 24362 24392	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	2000	24432 24472 24512 24562 24622 24682	26432 26472 26512 26562 26622 26682	800	450	1000
7500 8200 9100	7.0 \times 16.0 (17.5) \times 18.5	1.4	1500	24752 24822 24912	26752 26822 26912	700	400	800
10000 11000 12000	7.5 \times 16.5 (18.0) \times 18.5	1.6	1250	24103 24113 24123	26103 26113 26123	650	350	800
13000	8.5 \times 17.5 (19.0) \times 18.5	1.9	1000	24133	26133	550	300	700



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 = $\pm 5\%$	SPQ	C-tol = $\pm 5\%$		SPQ	SPQ
last 5 digits of catalog number	last 5 digits of catalog number							
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 = $\pm 5\%$	SPQ
last 5 digits of catalog number				
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 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 %	SPQ
			last 5 digits of catalog number	
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	



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 ± 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	
	at 10 kHz	at 100 kHz
Tangent of loss angle:		
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	

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

		CATALOG NUMBER 2222 375 AND PACKAGING						
		LOOSE IN BOX			REEL			
DIMENSIONS $w_{max} \times h (h')_{max} \times l_{max}$ (mm)		MASS (g)	$l_t = 5.0 \pm 1.0\text{ mm}$	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)		
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 (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
0.0047	$6.0 \times 19.0 \times 26.0$	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
last 5 digits of catalog number	last 5 digits of catalog number	SPQ					
C (μF)	pitch = 27.5 \pm 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 \times 22.0 \times 30.0	4.2	34203	550			
0.022	9.5 \times 22.5 \times 30.0	4.4	34223	500			
0.024	10.0 \times 23.0 \times 30.0	4.7	34243	500			
0.027	10.5 \times 23.5 \times 30.0	5.2	34273	450			
0.03	11.0 \times 24.0 \times 30.0	5.6	34303	400			
0.033	11.5 \times 24.5 \times 30.0	6.0	34333	400			
0.036	12.0 \times 25.0 \times 30.0	6.5	34363	350			
0.039	12.5 \times 25.5 \times 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 \pm 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 \pm 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			90153	

	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				
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; $d_t = 0.80 \pm 0.08 \text{ mm}$			
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	

$U_{Rdc} = 2000 \text{ V}$; $U_{Rac} = 600 \text{ V}$; $U_{p-p} = 1700 \text{ V}$ (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 Ø 500 mm		REEL Ø 356 mm	REEL Ø 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 ± 0.4 mm; $d_t = 0.80 \pm 0.08 \text{ mm}$		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			



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 %		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		
			$l_t = 5.0 \pm 1.0$ mm	all leads	REEL \varnothing 500 mm	REEL \varnothing 356 mm	REEL \varnothing 500 mm
			C-tol = ± 5 %	SPQ	C-tol = ± 5 %	SPQ	SPQ
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 × 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	



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				
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	
	at 10 kHz	at 100 kHz
Tangent of loss angle:		
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	

$U_{Rdc} = 1600\text{ V}$; $U_{Rac} = 500\text{ V}$; $U_{p-p} = 1400\text{ V}$ (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	$8.0 \times 17.0 (18.5) \times 18.5$	1.7	64112	1250	66112	600	350	750
1200			64122		66122			
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 (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	
0.0018	$6.0 \times 19.0 \times 26.0$	2.0	64182	800				650
0.002			64202					
0.0022	$6.5 \times 19.5 \times 26.0$	2.1	64222	750				600
0.0024	$7.0 \times 20.0 \times 26.0$	2.3	64242	650				550
0.0027			64272					
0.003	$7.5 \times 20.5 \times 26.0$	2.5	64302	600				500
0.0033	$8.0 \times 21.0 \times 26.0$	2.6	64332	550				500
0.0036			64362					
0.0039			64392					
0.0043	$8.5 \times 21.5 \times 26.0$	2.9	64432	500				450
0.0047			64472					
0.0051			64512					
0.0056			64562					
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 = $\pm 5\%$	SPQ
last 5 digits of catalog number				
C (pF)	pitch = $15.0 \pm 0.4\text{ mm}$; $d_t = 0.80 \pm 0.08\text{ mm}$			
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	
			$l_t = 4.0 + 1.0/- 0.5$ mm	
			C-tol = ± 5 %	SPQ
last 5 digits of catalog number				
C (μF)	pitch = 22.5 \pm 1.0 mm; $d_t = 0.80 \pm 0.08$ mm			
0.0018	6.0 \times 22.0 \times 26.0	2.0	90653	750
0.002			90654	
0.0022	6.5 \times 22.5 \times 26.0	2.1	90655	700
0.0024	7.0 \times 23.0 \times 26.0	2.3	90656	600
0.0027			90657	
0.003	7.5 \times 23.5 \times 26.0	2.5	90658	550
0.0033	8.0 \times 24.0 \times 26.0	2.6	90659	500
0.0036			90661	
0.0039			90662	
0.0043	8.5 \times 24.5 \times 26.0	2.9	90663	450
0.0047			90664	
0.0051			90665	
0.0056			90666	
0.0062	9.0 \times 25.0 \times 26.0	3.1	90667	450
0.0068	9.5 \times 25.5 \times 26.0	3.5	90668	400
0.0075	10.0 \times 26.0 \times 26.0	3.6	90669	350
0.0082	10.5 \times 26.5 \times 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/ μ s	
R between leads at 500 V; 1 minute	> 100000 M Ω	
R between interconnected leads and case; 500 V; 1 minute	> 100000 M Ω	
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		SPQ
C (μF)	pitch = 22.5 \pm 0.4 mm; $d_t = 0.80 \pm 0.08$ mm				
0.001	6.0 \times 19.0 \times 26.0	2.1	74102	800	650
0.0011			74112		
0.0012	6.5 \times 19.5 \times 26.0	2.3	74122	750	600
0.0013			74132		
0.0015	7.0 \times 20.0 \times 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
			$l_t = 5.0 \pm 1.0$ mm	all leads	SPQ
			C-tol = ± 5 %	SPQ	
			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 %	SPQ
	last 5 digits of catalog number	SPQ		
C (μF)	pitch = 22.5 ± 0.4 mm; $d_t = 0.80 \pm 0.08$ 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	
	at 10 kHz	at 100 kHz
Tangent of loss angle:	$\leq 6 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
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

Vishay BCcomponents

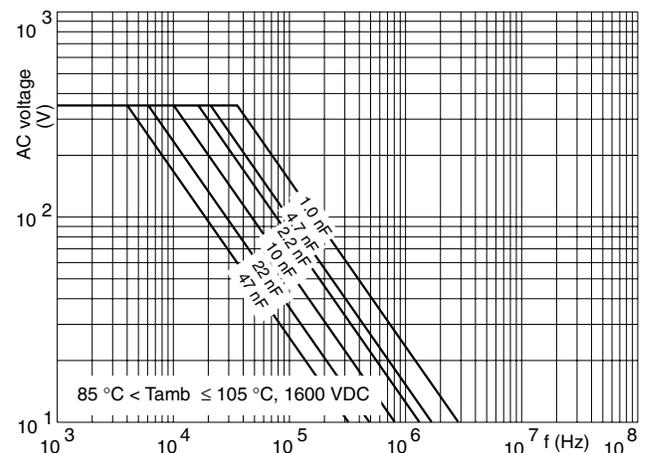
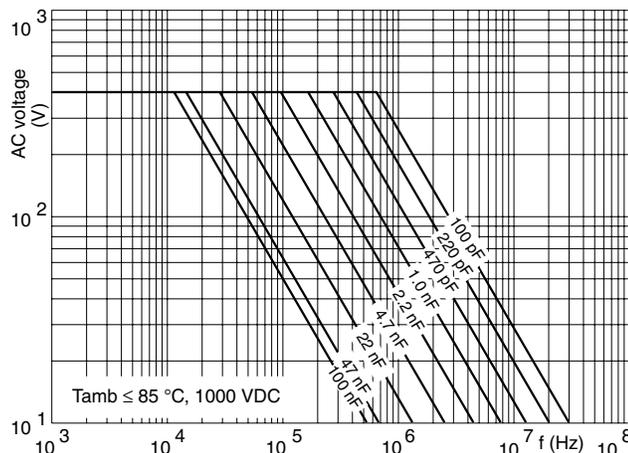
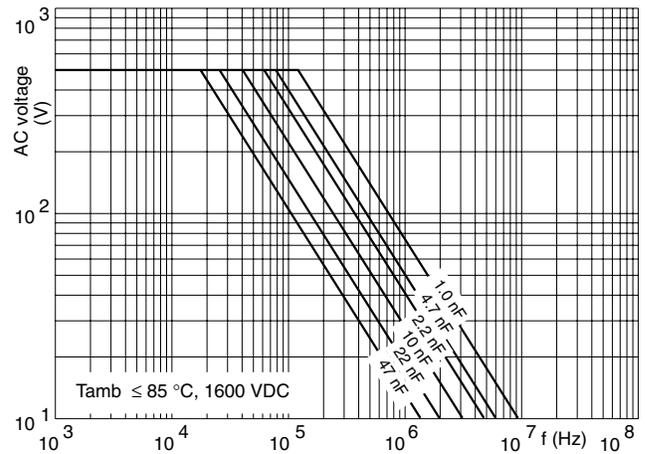
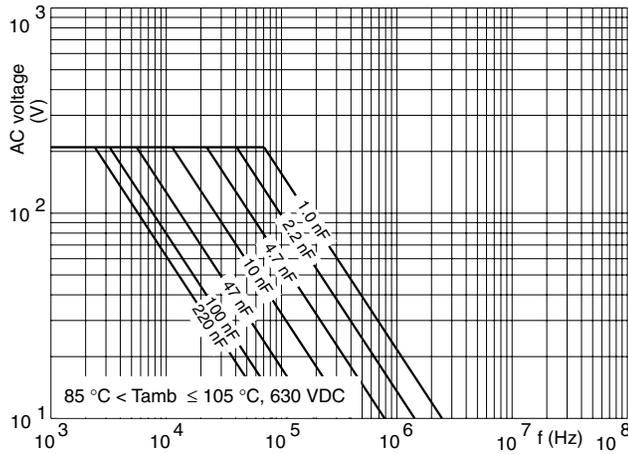
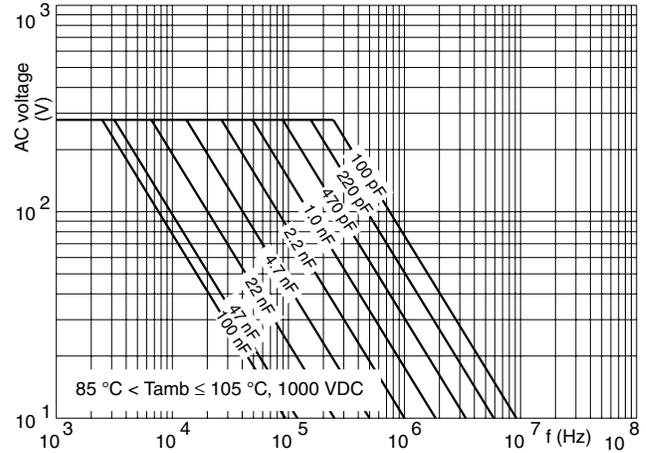
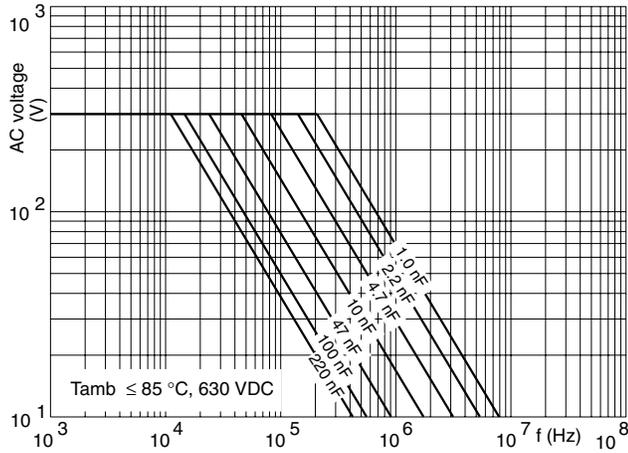
$U_{Rdc} = 2500\text{ V}$; $U_{Rac} = 600\text{ V}$; $U_{p-p} = 1700\text{ V}$ (monitor standard)

	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	
			C-tol = $\pm 5\%$	SPQ	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 × 19.0 × 26.0	2.1	84102	800	650
0.0011			84112		
0.0012	6.5 × 19.5 × 26.0	2.3	84122	750	600
0.0013			84132		
0.0015	7.0 × 20.0 × 26.0	2.6	84152	650	550
0.0016			84162		
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	11.0 × 24.0 × 26.0	4.9	84362	350	350
0.0039			84392		
0.0043			84432		
0.0047	11.5 × 24.5 × 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 × 22.0 × 26.0	2.1	90692	750
0.0011			90693	
0.0012	6.5 × 22.5 × 26.0	2.3	90694	700
0.0013			90695	
0.0015	7.0 × 23.0 × 26.0	2.6	90696	600
0.0016			90697	
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	11.0 × 27.0 × 26.0	4.9	90706	300
0.0039			90707	
0.0043			90708	
0.0047	11.5 × 27.5 × 26.0	5.3	90709	300
0.0051			90711	

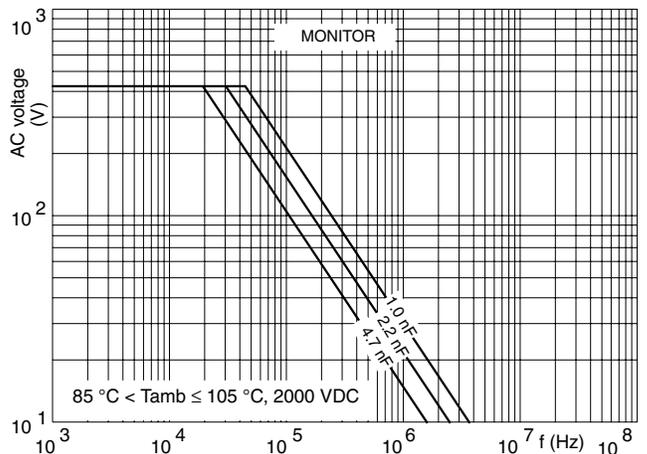
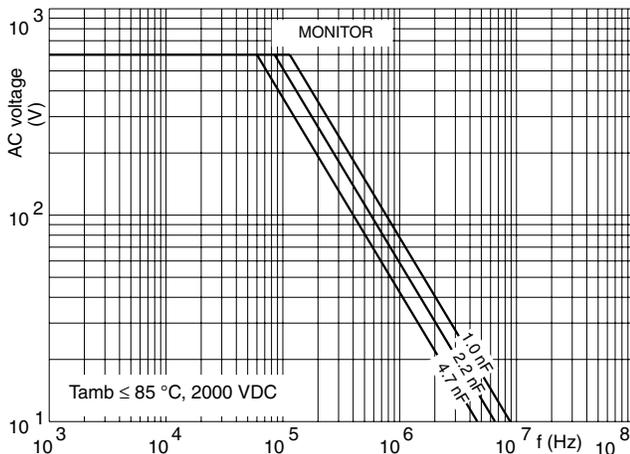
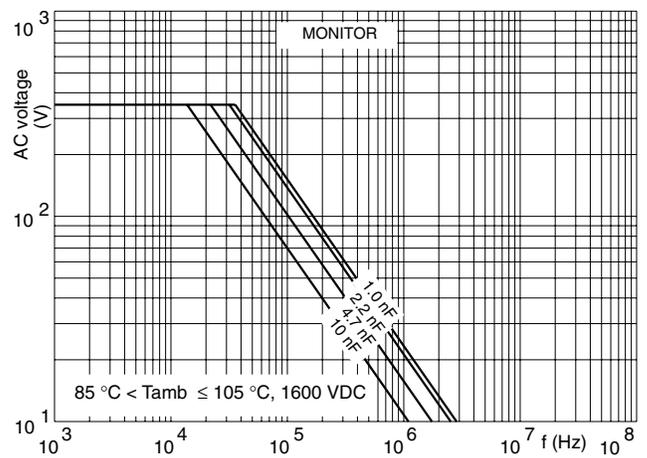
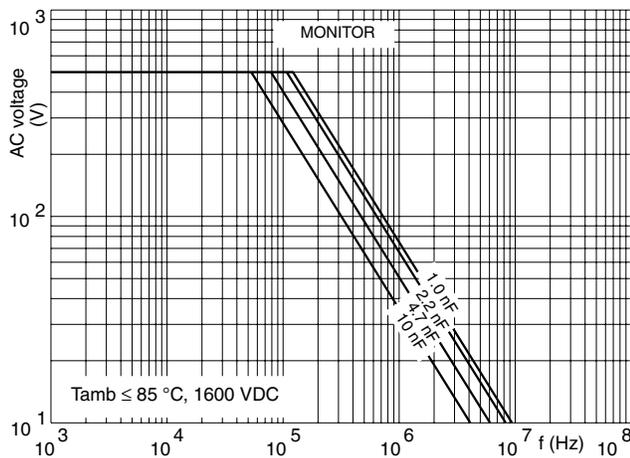
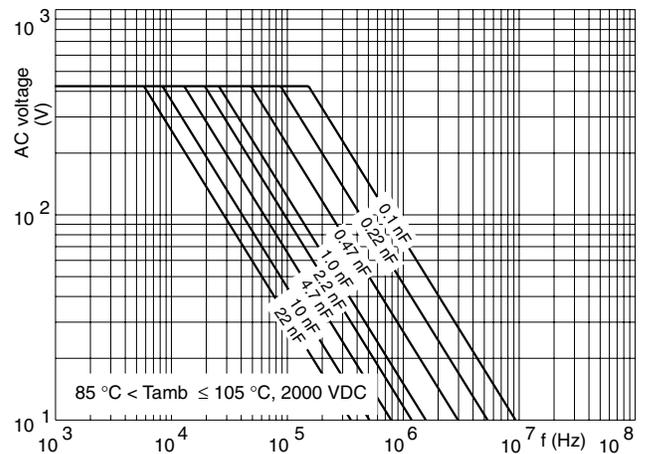
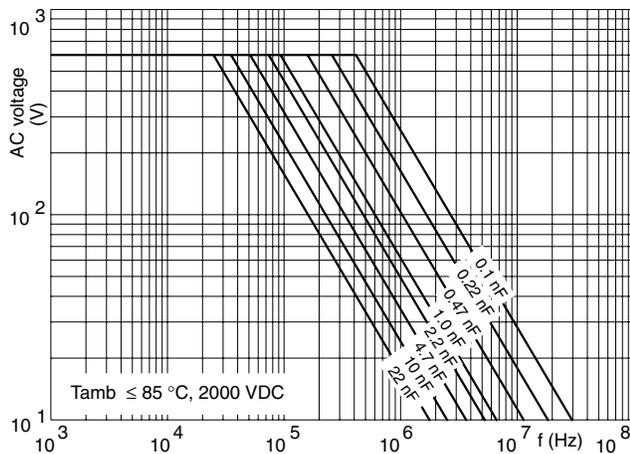
MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY

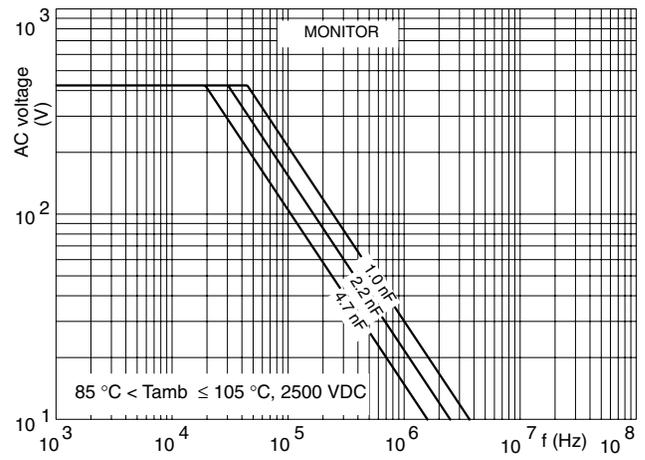
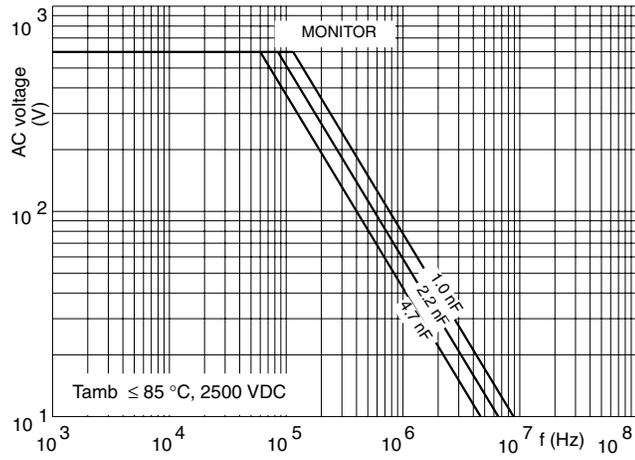




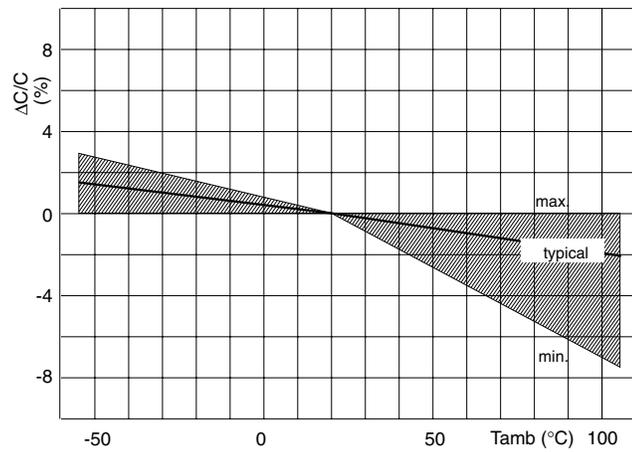
AC and Pulse Polypropylene
Film Capacitors KP/MKP
Radial Epoxy Lacquered Type

Vishay BCcomponents

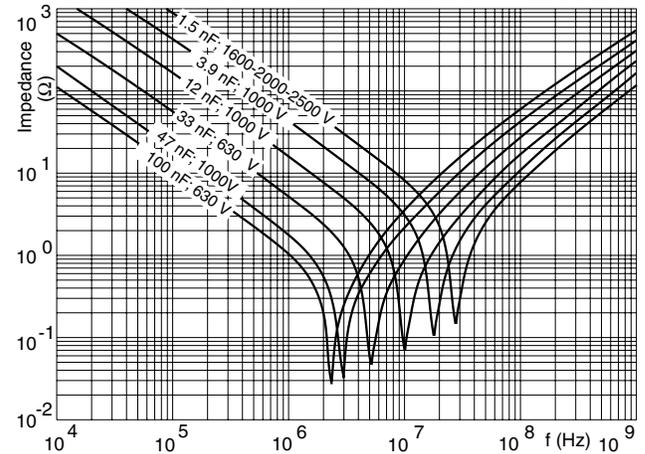




CAPACITANCE



IMPEDANCE





Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Vishay:](#)

[BFC237513532](#)