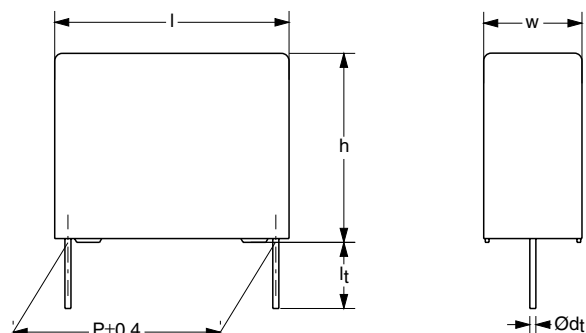


AC and Pulse Metallized Polypropylene Film Capacitors KP/MMKP Radial Potted Type



Dimensions in mm

APPLICATIONS

Where high currents and steep pulses occur. Power supplies

MARKING

C-value; tolerance; rated voltage; manufacturer's type designation; code for dielectric material; manufacturer's emblem; code for factory of origin; year and week of manufacture

DIELECTRIC

Polypropylene film

ELECTRODES

Metallized film and aluminium foil

ENCAPSULATION

Flame retardant plastic case and epoxy resin (UL-class 94 V-0)

CONSTRUCTION

Internal serial construction

LEADS

Tinned wire

CAPACITANCE RANGE (E24 SERIES)

0.0047 to 0.27 μ F

FEATURES

15 to 27.5 mm pitch. Supplied loose and taped on reel

Lead (Pb)-free product

RoHS-compliant product

CAPACITANCE TOLERANCE

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

RATED (DC) VOLTAGE

630 V; 1000 V

RATED (AC) VOLTAGE

300 V; 400 V

RATED PEAK-TO-PEAK VOLTAGE

850 V; 1100 V

CLIMATIC CATEGORY

55/100/56

RATED TEMPERATURE

85 °C

MAXIMUM APPLICATION TEMPERATURE

100 °C

REFERENCE SPECIFICATIONS

IEC 60384-17

PERFORMANCE GRADE

for $C > 4.7$ nF: grade 1 (long life)

for $C \leq 4.7$ nF: grade 2

STABILITY GRADE

Grade 2

DETAIL SPECIFICATION

For more detailed data and test requirements see "Type detail specification HQN-384-17/101"



RoHS
COMPLIANT

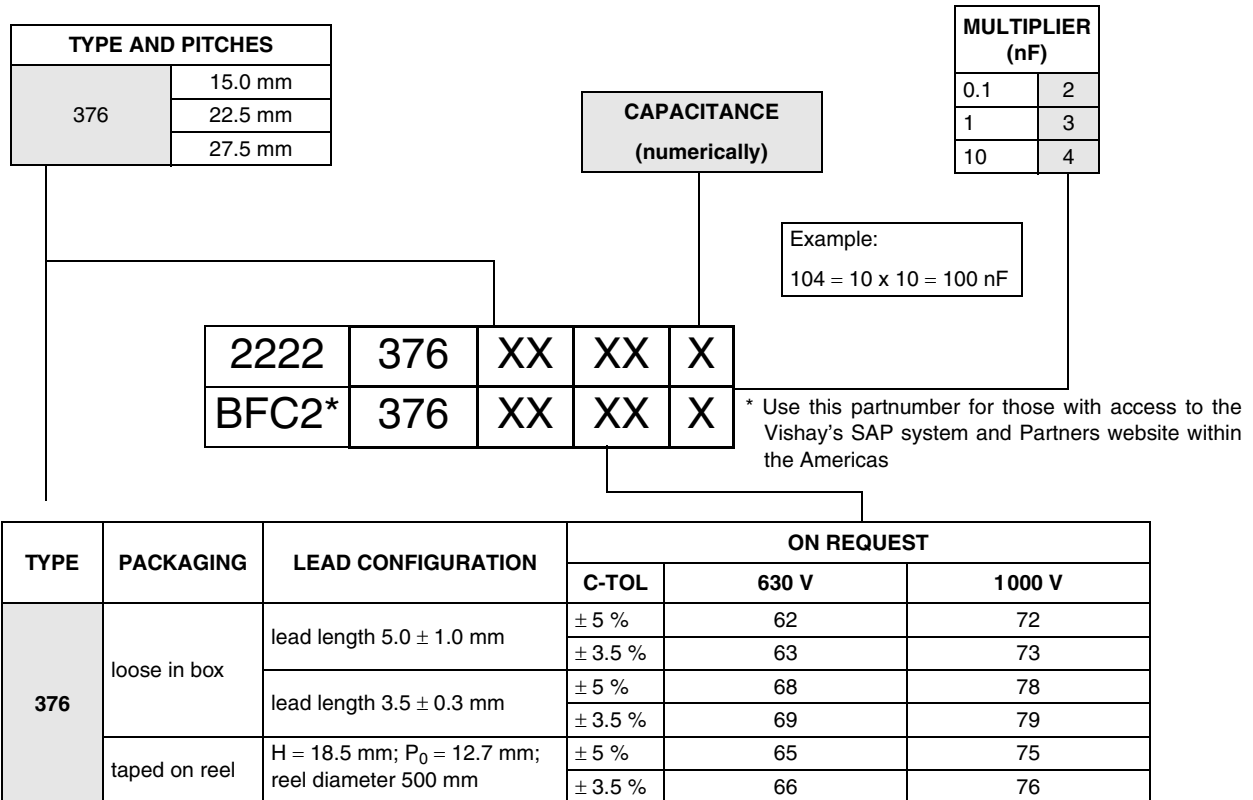
KP/MMKP 376

Vishay BCcomponents

AC and Pulse Metallized Polypropylene
Film Capacitors KP/MMKP Radial Potted Type



COMPOSITION OF CATALOG NUMBER



SPECIFIC REFERENCE DATA (630 VDC)

DESCRIPTION	VALUE	
Tangent of loss angle: P = 15.0 mm P = 22.5 mm P = 27.5 mm	at 10 kHz	at 100 kHz
	$\leq 3 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
	$\leq 3 \times 10^{-4}$	$\leq 15 \times 10^{-4}$
	$\leq 4 \times 10^{-4}$	$\leq 20 \times 10^{-4}$
Rated voltage pulse slope (dU/dt) _R : P = 15.0 mm P = 22.5 mm P = 27.5 mm	4000 V/μs	
	1400 V/μs	
	900 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	



AC and Pulse Metallized Polypropylene Film Capacitors KP/MMKP Radial Potted Type

KP/MMKP 376

Vishay BCcomponents

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

C (μF)	DIMENSIONS W × H × L (mm)	MASS (g)	CATALOG NUMBER 2222 376 AND PACKAGING		
			LOOSE IN BOX		REEL
			l _t = 5.0 ± 1.0 mm	ALL LEADS	
			C-tol = ± 5 %	SPQ	
LAST 5 DIGITS OF CATALOG NUMBER	SPQ				
Pitch = 15.0 ± 0.4 mm; d _t = 0.60 ± 0.06 mm					
0.0068 0.0075 0.0082 0.0091	5.0 × 11.0 × 17.5	1.1	62682 62752 62822 62912	1000	1100
0.01 0.011 0.012 0.013	6.0 × 12.0 × 17.5	1.5	62103 62113 62123 62133	1000	900
Pitch = 15.0 ± 0.4 mm; d _t = 0.80 ± 0.08 mm					
0.015 0.016 0.018	7.0 × 13.5 × 17.5	2.0	62153 62163 62183	1000	800
0.02 0.022	8.5 × 15.0 × 17.5	2.6	62203 62223	1000	650
Pitch = 22.5 ± 0.4 mm; d _t = 0.80 ± 0.08 mm					
0.024 0.027 0.03	6.0 × 15.5 × 26.0	2.8	62243 62273 62303	300	600
0.033 0.036 0.039	7.0 × 16.5 × 26.0	3.5	62333 62363 62393	200	550
0.043 0.047 0.051 0.056	8.5 × 18.0 × 26.0	4.5 4.5 4.5 5.1	62433 62473 62513 62563	200	450
Pitch = 27.5 ± 0.4 mm; d _t = 0.80 ± 0.08 mm					
0.062 0.068 0.075	9.0 × 19.0 × 31.0	6.2	62623 62683 62753	100	
0.082 0.091 0.1 0.11	11.0 × 21.0 × 31.0	8.3	62823 62913 62104 62114	100	
0.12 0.13 0.15 0.16	13.0 × 23.0 × 31.0	10.8	62124 62134 62154 62164	100	
0.18 0.2	15.0 × 25.0 × 31.0	13.0	62184 62204	100	
0.22 0.24 0.27	18.0 × 28.0 × 31.0	19.0	62224 62244 62274	100	

SPECIFIC REFERENCE DATA (630 VDC)

DESCRIPTION	VALUE	
Tangent of loss angle: P = 15.0 mm P = 22.5 mm P = 27.5 mm	at 10 kHz	at 100 kHz
	$\leq 3 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
	$\leq 3 \times 10^{-4}$	$\leq 10 \times 10^{-4}$
	$\leq 3 \times 10^{-4}$	$\leq 15 \times 10^{-4}$
Rated voltage pulse slope (dU/dt) _R :		
P = 15.0 mm	7000 V/μs	
P = 22.5 mm	2500 V/μs	
P = 27.5 mm	1600 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 [1, 6 - (0, 0364 · √C - 47)] × 1000V ; 1 minute	
Withstanding (DC)voltage between leads and case	2840 V; 1 minute	

U_{Rdc} = 1000 V; U_{Rac} = 400 V/U_{p-p} = 1100 V

C (μF)	DIMENSIONS W × H × L (mm)	MASS (g)	CATALOG NUMBER 2222 376 AND PACKAGING		
			LOOSE IN BOX		REEL
			l _t = 5.0 ± 1.0 mm	ALL LEADS	
			C-tol = ± 5 %	SPQ	
			LAST 5 DIGITS OF CATALOG NUMBER		
Pitch = 15.0 ± 0.4 mm; d _t = 0.60 ± 0.06 mm					
0.0047 0.0051 0.0056	5.0 × 11.0 × 17.5	1.1	72472 72512 72562	1000	1100
0.0062 0.0068 0.0075 0.0082	6.0 × 12.0 × 17.5	1.5	72622 72682 72752 72822	1000	900
Pitch = 15.0 ± 0.4 mm; d _t = 0.80 ± 0.08 mm					
0.0091 0.01 0.011 0.012	7.0 × 13.5 × 17.5	2.0	72912 72103 72113 72123	1000	800
Pitch = 22.5 ± 0.4 mm; d _t = 0.80 ± 0.08 mm					
0.013	6.0 × 15.5 × 26.0	2.8	72133	300	600
0.015 0.016 0.018	7.0 × 16.5 × 26.0	3.5	72153 72163 72183	200	550



C (μF)	DIMENSIONS W × H × L (mm)	MASS (g)	CATALOG NUMBER 2222 376 AND PACKAGING		
			LOOSE IN BOX		REEL
			l _t = 5.0 ± 1.0 mm	ALL LEADS	
			C-tol = ± 5 %	SPQ	
			LAST 5 DIGITS OF CATALOG NUMBER		
0.02 0.022 0.024 0.027 0.03 0.033 0.036	8.5 × 18.0 × 26.0	4.5	72203 72223 72243 72273 72303 72333 72363	200	450
0.039	10.0 × 19.5 × 26.0	5.4	72393	200	350
Pitch = 27.5 ± 0.4 mm; d _t = 0.80 ± 0.08 mm					
0.043 0.047 0.051	9.0 × 19.0 × 31.0	6.2	72433 72473 72513	100	
0.056 0.062 0.068 0.075	11.0 × 21.0 × 31.0	8.3	72563 72623 72683 72753	100	
0.082 0.091 0.1	13.0 × 23.0 × 31.0	10.8	72823 72913 72104	100	
0.11 0.12 0.13 0.15	15.0 × 25.0 × 31.0	13.0	72114 72124 72134 72154	100	
0.16 0.18	18.0 × 28.0 × 31.0	19.0	72164 72184	100	



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