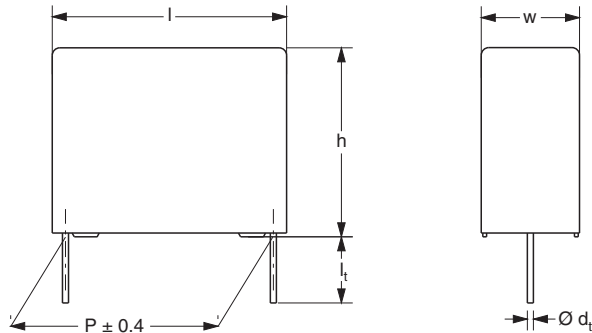




AC and Pulse Metallized Polypropylene Film Capacitors KP/MMKP Radial Potted Type



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 aluminum 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 μ F to 0.27 μ F

FEATURES

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

Material categorization:
for definitions of compliance please see
www.vishay.com/doc?99912

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

Grade 1 (long life)

STABILITY GRADE

Grade 2

DETAIL SPECIFICATION

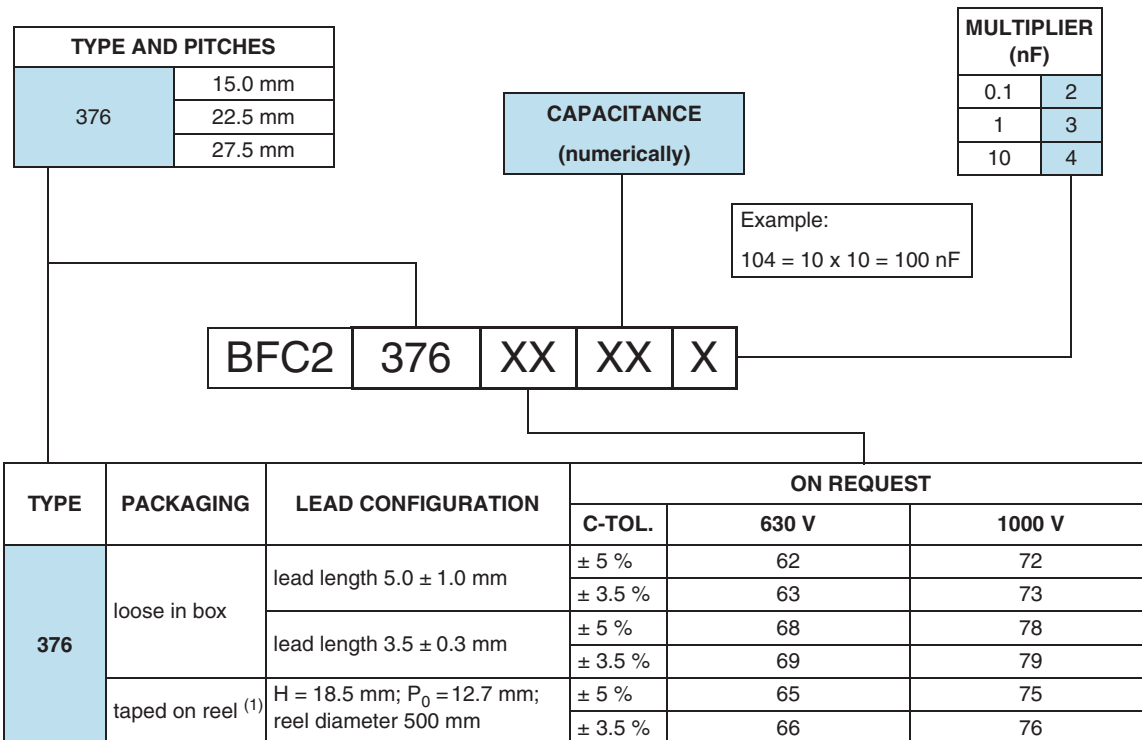
For more detailed data and test requirements see "Type
Detail Specification HQN-384-17/101"



RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)



COMPOSITION OF CATALOG NUMBER



Note

⁽¹⁾ For detailed tape specification refer to "Packaging Information": www.vishay.com/doc?28139

SPECIFIC REFERENCE DATA (630 V_{DC})

DESCRIPTION	VALUE	
	at 10 kHz	at 100 kHz
Tangent of loss angle:		
P = 15.0 mm	≤ 5 x 10 ⁻⁴	≤ 10 x 10 ⁻⁴
P = 22.5 mm	≤ 6 x 10 ⁻⁴	≤ 15 x 10 ⁻⁴
P = 27.5 mm	≤ 7 x 10 ⁻⁴	≤ 20 x 10 ⁻⁴
Rated voltage pulse slope (dU/dt) _R :		
P = 15.0 mm	4000 V/μs	
P = 22.5 mm	1400 V/μs	
P = 27.5 mm	900 V/μs	
R between leads at 500 V; 1 min	> 100 000 MΩ	
R between interconnected leads and case; 500 V; 1 min	> 100 000 MΩ	
Ionization (AC) voltage (typical value) at 50 pC peak discharge	> 400 V	
Withstanding (DC) voltage (cut off current 10 mA) ⁽¹⁾ ; rise time 1000 V/s	1008 V; 1 min	
Withstanding (DC) voltage between leads and case	2840 V; 1 min	

Note

⁽¹⁾ See "Voltage Proof Test for Metalized Film Capacitors": www.vishay.com/doc?28169



$U_{RDC} = 630 \text{ V}$; $U_{RAC} = 300 \text{ V}$; $U_{P-P} = 850 \text{ V}$

C (μF)	DIMENSIONS W x H x L (mm)	MASS (g) ⁽²⁾	CATALOG NUMBER BFC2 376 AND PACKAGING		
			LOOSE IN BOX		REEL ⁽¹⁾ H = 18.5 mm P ₀ = 12.7 mm
			$l_t = 5.0 \pm 1.0 \text{ mm}$	ALL LEADS	
			C-tol. = $\pm 5 \%$	SPQ	SPQ
Pitch = $15.0 \pm 0.4 \text{ mm}$; $d_t = 0.60 \pm 0.06 \text{ mm}$					
0.0068	5.0 x 11.0 x 17.5	1.1	62682	1000	1100
0.0075			62752		
0.0082			62822		
0.0091			62912		
0.010	6.0 x 12.0 x 17.5	1.5	62103	1000	900
0.011			62113		
0.012			62123		
0.013			62133		
Pitch = $15.0 \pm 0.4 \text{ mm}$; $d_t = 0.80 \pm 0.08 \text{ mm}$					
0.015	7.0 x 13.5 x 17.5	2.0	62153	1000	800
0.016			62163		
0.018			62183		
0.020	8.5 x 15.0 x 17.5	2.6	62203	1000	650
0.022			62223		
Pitch = $22.5 \pm 0.4 \text{ mm}$; $d_t = 0.80 \pm 0.08 \text{ mm}$					
0.024	6.0 x 15.5 x 26.0	2.8	62243	300	600
0.027			62273		
0.030			62303		
0.033	7.0 x 16.5 x 26.0	3.5	62333	200	550
0.036			62363		
0.039			62393		
0.043	8.5 x 18.0 x 26.0	4.5	62433	200	450
0.047		4.5	62473		
0.051		4.5	62513		
0.056		5.1	62563		
Pitch = $27.5 \pm 0.4 \text{ mm}$; $d_t = 0.80 \pm 0.08 \text{ mm}$					
0.062	9.0 x 19.0 x 31.0	6.2	62623	100	
0.068			62683		
0.075			62753		
0.082	11.0 x 21.0 x 31.0	8.3	62823	100	
0.091			62913		
0.10			62104		
0.11			62114		
0.12	13.0 x 23.0 x 31.0	10.8	62124	100	
0.13			62134		
0.15			62154		
0.16			62164		
0.18	15.0 x 25.0 x 31.0	13.0	62184	100	
0.20			62204		
0.22	18.0 x 28.0 x 31.0	19.0	62224	100	
0.24			62244		
0.27			62274		

Notes

- SPQ = Standard Packing Quantity

⁽¹⁾ H = in-tape height; P₀ = sprocket hole distance; for detailed specifications refer to packaging information

⁽²⁾ Weight for short lead product only

SPECIFIC REFERENCE DATA (1000 V_{DC})

DESCRIPTION	VALUE	
	at 10 kHz	at 100 kHz
Tangent of loss angle: P = 15.0 mm P = 22.5 mm P = 27.5 mm	$\leq 5 \times 10^{-4}$ $\leq 6 \times 10^{-4}$ $\leq 8 \times 10^{-4}$	$\leq 10 \times 10^{-4}$ $\leq 15 \times 10^{-4}$ $\leq 20 \times 10^{-4}$
Rated voltage pulse slope (dU/dt) _R : P = 15.0 mm P = 22.5 mm P = 27.5 mm	7000 V/μs 2500 V/μs 1600 V/μs	
R between leads at 500 V; 1 min	> 100 000 MΩ	
R between interconnected leads and case; 500 V; 1 min	> 100 000 MΩ	
Ionization (AC) voltage (typical value) at 50 pC peak discharge	> 500 V	
Withstanding (DC) voltage (cut off current 10 mA) ⁽¹⁾ ; rise time 1000 V/s for C ≤ 47 nF for C > 47 nF	1600 V; 1 min [1, 6 - (0, 0364 · √C - 47)] × 1000 V; 1 min	
Withstanding (DC) voltage between leads and case	2840 V; 1 min	

Note

⁽¹⁾ See "Voltage Proof Test for Metalized Film Capacitors": www.vishay.com/doc?28169

U_{RDC} = 1000 V; U_{RAC} = 400 V; U_{P-P} = 1100 V

C (μF)	DIMENSIONS W x H x L (mm)	MASS (g) ⁽²⁾	CATALOG NUMBER BFC2 376 AND PACKAGING		
			LOOSE IN BOX		REEL ⁽¹⁾ H = 18.5 mm P ₀ = 12.7 mm
			l _t = 5.0 ± 1.0 mm	ALL LEADS	
			C-tol. = ± 5 %	SPQ	SPQ
Pitch = 15.0 ± 0.4 mm; d_t = 0.60 ± 0.06 mm					
0.0047 0.0051 0.0056	5.0 x 11.0 x 17.5	1.1	72472 72512 72562	1000	1100
0.0062 0.0068 0.0075 0.0082	6.0 x 12.0 x 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 0.010 0.011 0.012	7.0 x 13.5 x 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 0.015 0.016 0.018	6.0 x 15.5 x 26.0 7.0 x 16.5 x 26.0	2.8 3.5	72133 72153 72163 72183	300 200	600 550
0.020 0.022 0.024 0.027 0.03 0.033 0.036 0.039	8.5 x 18.0 x 26.0 10.0 x 19.5 x 26.0	4.5 5.4	72203 72223 72243 72273 72303 72333 72363 72393	200	450 350



C (μ F)	DIMENSIONS W x H x L (mm)	MASS (g) ⁽²⁾	CATALOG NUMBER BFC2 376 AND PACKAGING		
			LOOSE IN BOX		REEL ⁽¹⁾ H = 18.5 mm P ₀ = 12.7 mm
			$l_t = 5.0 \pm 1.0$ mm	ALL LEADS	
			C-tol. = ± 5 %	SPQ	SPQ
LAST 5 DIGITS OF CATALOG NUMBER					
Pitch = 27.5 ± 0.4 mm; $d_t = 0.80 \pm 0.08$ mm					
0.043	9.0 x 19.0 x 31.0	6.2	72433	100	
0.047			72473		
0.051			72513		
0.056	11.0 x 21.0 x 31.0	8.3	72563	100	
0.062			72623		
0.068			72683		
0.075			72753		
0.082	13.0 x 23.0 x 31.0	10.8	72823	100	
0.091			72913		
0.10			72104		
0.11	15.0 x 25.0 x 31.0	13.0	72114	100	
0.12			72124		
0.13			72134		
0.15			72154		
0.16	18.0 x 28.0 x 31.0	19.0	72164	100	
0.18			72184		

Notes

- SPQ = Standard Packing Quantity

⁽¹⁾ H = in-tape height; P₀ = sprocket hole distance; for detailed specifications refer to packaging information

⁽²⁾ Weight for short lead product only



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