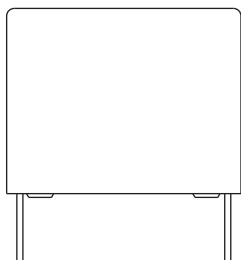




AC and Pulse Metallized Polypropylene Film Capacitors MKP Radial Potted Type



FEATURES

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

APPLICATIONS

Low losses due to low contact resistance and low loss dielectric make these products suitable for applications where high currents at high frequency occur or high stability is preferred. Their small dimensions make them ideal for circuits with high packaging density.



QUICK REFERENCE DATA

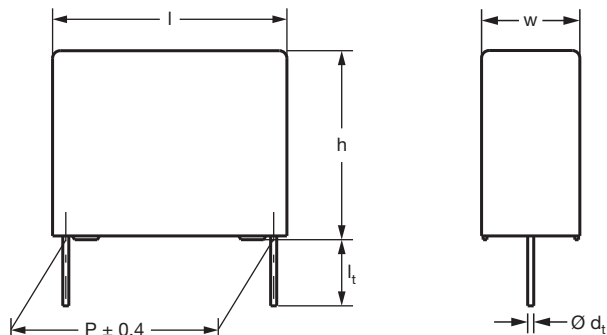
Capacitance range (E24 series)	0.01 μ F to 6.2 μ F
Capacitance tolerance	$\pm 5\%$
Climatic category	55/085/56
Maximum application temperature	85 °C
Reference specifications	IEC 60384-17
Dielectric	Polypropylene film
Electrodes	Metallized film
Construction	Wound mono construction
Encapsulation	Flame retardant plastic case and epoxy resin (UL-class 94 V-0)
Leads	Tinned wire
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
Rated DC voltage	160 V _{DC} ; 250 V _{DC} ; 400 V _{DC} ; 630 V _{DC}
Rated AC voltage	100 V _{AC} ; 160 V _{AC} ; 200 V _{AC} ; 220 V _{AC}
Rated peak-to-peak voltage	280 V; 450 V; 560 V; 620 V
Rated temperature	85 °C
Performance grade	Grade 1 (long life)
Stability grade	160 V versions: grade 2 250 V to 630 V versions; pitch 5 mm to 15 mm: grade 2 250 V to 630 V versions; pitch 22.5 mm and 27.5 mm: grade 1

Note

- For more detailed data and test requirements contact dc-film@vishay.com



DIMENSIONS in millimeters



COMPOSITION OF CATALOG NUMBER

TYPE AND PITCHES	
379	10.0 mm
	15.0 mm
	22.5 mm
	27.5 mm

CAPACITANCE
(numerically)

MULTIPLIER (nF)	
1	3
10	4
100	5

Example:
104 = 10 x 10 = 100 nF

2222*	379	XX	XX	X
BFC2	379	XX	XX	X

* Old ordering code

TYPE	PACKAGING	LEAD CONFIGURATION	PREFERRED TYPES				
			C-TOL.	160 V	250 V	400 V	630 V
379	Loose in box	Lead length 4.0 mm + 1 mm / - 0.5 mm or 3.5 mm ± 0.3 mm	± 5 %	34	44	54	64
TYPE	PACKAGING	LEAD CONFIGURATION	ON REQUEST				
379	Taped on reel	H = 18.5 mm; P ₀ = 12.7 mm; reel diameter 500 mm	± 5 %	35	45	55	65



SPECIFIC REFERENCE DATA - 160 V _{DC}		
DESCRIPTION	VALUE	
	at 10 kHz	at 100 kHz
Tangent of loss angle:		
$C \leq 0.075 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 20 \times 10^{-4}$
$0.075 \mu\text{F} < C \leq 0.11 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 25 \times 10^{-4}$
$0.11 \mu\text{F} < C \leq 0.16 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 30 \times 10^{-4}$
$0.18 \mu\text{F} < C \leq 0.30 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 40 \times 10^{-4}$
$0.30 \mu\text{F} < C \leq 0.39 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 45 \times 10^{-4}$
$0.39 \mu\text{F} < C \leq 0.56 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 45 \times 10^{-4}$
$0.56 \mu\text{F} < C \leq 0.68 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 80 \times 10^{-4}$
$0.68 \mu\text{F} < C \leq 0.82 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 80 \times 10^{-4}$
$0.82 \mu\text{F} < C \leq 0.91 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 90 \times 10^{-4}$
$0.91 \mu\text{F} < C \leq 1.0 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 90 \times 10^{-4}$
$1.0 \mu\text{F} < C \leq 1.2 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 120 \times 10^{-4}$
$1.2 \mu\text{F} < C \leq 1.3 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 125 \times 10^{-4}$
$1.3 \mu\text{F} < C \leq 1.5 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 135 \times 10^{-4}$
$1.5 \mu\text{F} < C \leq 1.6 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 135 \times 10^{-4}$
$1.6 \mu\text{F} < C \leq 1.8 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 135 \times 10^{-4}$
$1.8 \mu\text{F} < C \leq 2.0 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 145 \times 10^{-4}$
$2.0 \mu\text{F} < C \leq 2.2 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 145 \times 10^{-4}$
$2.2 \mu\text{F} < C \leq 2.4 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 145 \times 10^{-4}$
$2.4 \mu\text{F} < C \leq 2.7 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 155 \times 10^{-4}$
$2.7 \mu\text{F} < C \leq 3.0 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 155 \times 10^{-4}$
$3.0 \mu\text{F} < C \leq 3.3 \mu\text{F}$	$\leq 20 \times 10^{-4}$	$\leq 160 \times 10^{-4}$
$3.3 \mu\text{F} < C \leq 3.6 \mu\text{F}$	$\leq 20 \times 10^{-4}$	$\leq 160 \times 10^{-4}$
$3.6 \mu\text{F} < C \leq 3.9 \mu\text{F}$	$\leq 20 \times 10^{-4}$	$\leq 160 \times 10^{-4}$
$3.9 \mu\text{F} < C \leq 4.3 \mu\text{F}$	$\leq 20 \times 10^{-4}$	$\leq 165 \times 10^{-4}$
$4.3 \mu\text{F} < C \leq 4.7 \mu\text{F}$	$\leq 20 \times 10^{-4}$	$\leq 165 \times 10^{-4}$
$4.7 \mu\text{F} < C \leq 5.1 \mu\text{F}$	$\leq 20 \times 10^{-4}$	$\leq 165 \times 10^{-4}$
$5.1 \mu\text{F} < C \leq 5.6 \mu\text{F}$	$\leq 20 \times 10^{-4}$	$\leq 175 \times 10^{-4}$
$5.6 \mu\text{F} < C \leq 6.2 \mu\text{F}$	$\leq 40 \times 10^{-4}$	$\leq 195 \times 10^{-4}$
Rated voltage pulse slope (dU/dt) _R :		
$l = 12.5 \text{ mm}$	60 V/ μs	
$l = 17.5 \text{ mm}$	50 V/ μs	
$l = 26.0 \text{ mm}$	25 V/ μs	
$l = 31.0 \text{ mm}$	15 V/ μs (b < 15 mm)	
$l = 31.0 \text{ mm}$	7.5 V/ μs (b $\geq$ 15 mm)	
R between leads for $C \leq 1.0 \mu\text{F}$ at 100 V; 1 min	> 100 000 M Ω	
RC between leads, for $C > 1 \mu\text{F}$ at 100 V; 1 min	> 100 000 s	
R between interconnected leads and case; 100 V; 1 min	> 100 000 M Ω	
Withstanding (DC) voltage (cut off current 10 mA) ⁽¹⁾ ; rise time $\leq$ 1000 V/s	256 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



ELECTRICAL DATA AND ORDERING CODE									
U _{RDC} (V)	CAP. (μF)	DIMENSIONS w x h x l (mm)	MASS ⁽³⁾ (g)	CATALOG NUMBER BFC2 379 AND PACKAGING					
				LOOSE IN BOX		REEL ⁽²⁾			
				l _t = 4.0 mm + 1.0 mm/- 0.5 mm ⁽¹⁾		H = 18.5 mm, P ₀ = 12.7 mm			
				C-TOL. = ± 5 %	SPQ	SPQ			
				LAST 5 DIGITS OF CATALOG NUMBER					
160	PITCH = 10.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm; U _{RAC} = 100 V; U _{p-p} = 280 V								
	0.075 0.082 0.091 0.10	4.0 x 10.0 x 12.5	0.60	34753 34823 34913 34104	1000	1400			
	0.11 0.12 0.13			34114 34124 34134		1100			
	0.15 0.16			5.0 x 11.0 x 12.5		0.82	34154 34164	1000	1100 900
	PITCH = 15.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm; U _{RAC} = 100 V; U _{p-p} = 280 V								
	0.18 0.20 0.22 0.24 0.27	5.0 x 11.0 x 17.5	1.0	34184 34204 34224 34244 34274	1000	1100			
	0.30			34304		900			
	0.33 0.36 0.39	6.0 x 12.0 x 17.5	1.4	34334 34364 34394	1000	900			
	0.43 0.47			34434 34474		800			
	PITCH = 15.0 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; U _{RAC} = 100 V; U _{p-p} = 280 V								
	0.51 0.56 0.62	7.0 x 13.5 x 17.5	1.8	34514 34564 34624	1000	800 650			
	0.68 0.75			8.5 x 15.0 x 17.5		2.4	34684 34754	1000	650
	PITCH = 22.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; U _{RAC} = 100 V; U _{p-p} = 280 V								
	0.82 0.91	6.0 x 15.5 x 26.0	2.4	34824 34914	200	550			
	1.0 1.1 1.2	7.0 x 16.5 x 26.0	2.9	34105 34115 34125	200	450			
	1.3	8.5 x 18.0 x 26.0	3.8	34135	200	450			
	1.5 1.6 1.8			34155 34165 34185		350			
	PITCH = 27.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; U _{RAC} = 100 V; U _{p-p} = 280 V								
	2.0 2.2			9.0 x 19.0 x 31.5		5.5	34205 34225	100	
	2.4 2.7 3.0 3.3	11.0 x 21.0 x 31.0	7.4	34245 34275 34305 34335					
	3.6 3.9 4.3	13.0 x 23.0 x 31.0	9.2	34365 34395 34435	100				
	4.7 5.1 5.6	15.0 x 25.0 x 31.5	12.3	34475 34515 34565	100				
	6.2	18.0 x 28.0 x 31.5	16.1	34625	100				

Notes

- SPQ = Standard Packing Quantity

⁽¹⁾ l_t = 4.0 mm + 1 mm / - 0.5 mm for pitch = 10 mm and 3.5 mm ± 0.3 mm for pitch = 15 mm; 22.5 mm and 27.5 mm.

⁽²⁾ H = in-tape height; P₀ = sprocket hole distance; for detailed specifications refer to packaging information: www.vishay.com/doc?28139

⁽³⁾ Weight for short lead product only



SPECIFIC REFERENCE DATA - 250 V _{DC}		
DESCRIPTION	VALUE	
Tangent of loss angle:	at 10 kHz	at 100 kHz
0.047 $\mu\text{F} < C \leq 0.075 \mu\text{F}$	$\leq 5 \times 10^{-4}$	$\leq 20 \times 10^{-4}$
0.075 $\mu\text{F} < C \leq 0.011 \mu\text{F}$	$\leq 5 \times 10^{-4}$	$\leq 25 \times 10^{-4}$
0.11 $\mu\text{F} < C \leq 0.18 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 30 \times 10^{-4}$
0.18 $\mu\text{F} < C \leq 0.3 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 40 \times 10^{-4}$
0.30 $\mu\text{F} < C \leq 0.39 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 45 \times 10^{-4}$
0.39 $\mu\text{F} < C \leq 0.56 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 80 \times 10^{-4}$
0.56 $\mu\text{F} < C \leq 0.68 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 80 \times 10^{-4}$
0.68 $\mu\text{F} < C \leq 0.82 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 80 \times 10^{-4}$
0.82 $\mu\text{F} < C \leq 0.91 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 90 \times 10^{-4}$
0.91 $\mu\text{F} < C \leq 1.0 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 90 \times 10^{-4}$
1.0 $\mu\text{F} < C \leq 1.2 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 120 \times 10^{-4}$
1.2 $\mu\text{F} < C \leq 1.3 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 125 \times 10^{-4}$
1.3 $\mu\text{F} < C \leq 1.5 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 135 \times 10^{-4}$
1.5 $\mu\text{F} < C \leq 1.6 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 135 \times 10^{-4}$
1.6 $\mu\text{F} < C \leq 1.8 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 135 \times 10^{-4}$
1.8 $\mu\text{F} < C \leq 2.0 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 145 \times 10^{-4}$
2.0 $\mu\text{F} < C \leq 2.2 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 145 \times 10^{-4}$
2.2 $\mu\text{F} < C \leq 2.4 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 145 \times 10^{-4}$
2.4 $\mu\text{F} < C \leq 2.7 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 155 \times 10^{-4}$
2.7 $\mu\text{F} < C \leq 3.0 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 155 \times 10^{-4}$
3.0 $\mu\text{F} < C \leq 3.3 \mu\text{F}$	$\leq 20 \times 10^{-4}$	$\leq 160 \times 10^{-4}$
3.3 $\mu\text{F} < C \leq 3.6 \mu\text{F}$	$\leq 20 \times 10^{-4}$	$\leq 160 \times 10^{-4}$
3.6 $\mu\text{F} < C \leq 3.9 \mu\text{F}$	$\leq 20 \times 10^{-4}$	$\leq 160 \times 10^{-4}$
Rated voltage pulse slope (dU/dt) _R :		
l = 12.5 mm	70 V/ μs	
l = 17.5 mm	60 V/ μs	
l = 26.0 mm	30 V/ μs	
l = 31.0 mm	20 V/ μs (b < 15 mm)	
l = 31.0 mm	10 V/ μs (b $\geq$ 15 mm)	
R between leads for C $\leq$ 1.0 μF at 100 V; 1 min	> 100 000 M Ω	
RC between leads, for C > 1 μF at 100 V; 1 min	> 100 000 s	
R between interconnected leads and case; 100 V; 1 min	> 100 000 M Ω	
Withstanding (DC) voltage (cut off current 10 mA) ⁽¹⁾ ; rise time 1000 V/s	400 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



ELECTRICAL DATA AND ORDERING CODE												
U _{RDC} (V)	CAP. (μF)	DIMENSIONS w x h x l (mm)	MASS ⁽³⁾ (g)	CATALOG NUMBER BFC2 379 AND PACKAGING								
				LOOSE IN BOX		REEL ⁽²⁾						
				l _t = 4.0 mm + 1.0 mm/- 0.5 mm ⁽¹⁾		H = 18.5 mm, P ₀ = 12.7 mm						
				C-TOL. = ± 5 %	SPQ	SPQ						
LAST 5 DIGITS OF CATALOG NUMBER												
250	PITCH = 10.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm; U _{RAC} = 160 V; U _{p-p} = 450 V											
	0.047 0.051 0.056 0.062 0.068	4.0 x 10.0 x 12.5	0.60	44473 44513 44563 44623 44683	1000	1400						
	0.075 0.082 0.091			44753 44823 44913		1100						
	PITCH = 15.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm; U _{RAC} = 160 V; U _{p-p} = 450 V											
	0.10 0.11 0.12 0.13 0.15 0.16			5.0 x 11.0 x 17.5		1.0	44104 44114 44124 44134 44154 44164	1000	1100			
	0.18 0.20 0.22 0.24						44184 44204 44224 44244		900			
	0.27 0.30 0.33 0.36	6.0 x 12.0 x 17.5	1.4		44274 44304 44334 44364		1000		800 650			
	PITCH = 15.0 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; U _{RAC} = 160 V; U _{p-p} = 450 V											
	0.39 0.43 0.47	7.0 x 13.5 x 17.5	1.8		44394 44434 44474		1000		650			
	PITCH = 22.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; U _{RAC} = 160 V; U _{p-p} = 450 V											
	0.51 0.56 0.62 0.68			6.0 x 15.5 x 26.0	2.4	44514 44564 44624 44684		200		550 450		
	0.75 0.82 0.91	7.0 x 16.5 x 26.0	2.9			44754 44824 44914	200		450			
	1.0					44105			350			
	1.1 1.2			8.5 x 18.0 x 26.0	3.8	44115 44125		200	350			
	PITCH = 27.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; U _{RAC} = 160 V; U _{p-p} = 450 V											
	1.3 1.5 1.6 1.8	9.0 x 19.0 x 31.5	5.5	44135 44155 44165 44185	100							
	2.0 2.2 2.4 2.7			11.0 x 21.0 x 31.0			7.4	44205 44225 44245 44275	100			
	3.0 3.3 3.6							13.0 x 23.0 x 31.0		9.2	44305 44335 44365	100
	3.9										15.0 x 25.0 x 31.5	

Notes

- SPQ = Standard Packing Quantity

⁽¹⁾ l_t = 4.0 mm + 1 mm / - 0.5 mm for pitch = 10 mm and 3.5 mm ± 0.3 mm for pitch = 15 mm; 22.5 mm and 27.5 mm.

⁽²⁾ H = in-tape height; P₀ = sprocket hole distance; for detailed specifications refer to packaging information: www.vishay.com/doc28139

⁽³⁾ Weight for short lead product only



SPECIFIC REFERENCE DATA - 400 V _{DC}		
DESCRIPTION	VALUE	
Tangent of loss angle:	at 10 kHz	at 100 kHz
0.022 $\mu\text{F} < C \leq 0.027 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 15 \times 10^{-4}$
0.027 $\mu\text{F} < C \leq 0.075 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 20 \times 10^{-4}$
0.075 $\mu\text{F} < C \leq 0.11 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 25 \times 10^{-4}$
0.11 $\mu\text{F} < C \leq 0.18 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 30 \times 10^{-4}$
0.18 $\mu\text{F} < C \leq 0.3 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 40 \times 10^{-4}$
0.30 $\mu\text{F} < C \leq 0.39 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 45 \times 10^{-4}$
0.39 $\mu\text{F} < C \leq 0.56 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 80 \times 10^{-4}$
0.56 $\mu\text{F} < C \leq 0.68 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 80 \times 10^{-4}$
0.68 $\mu\text{F} < C \leq 0.82 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 80 \times 10^{-4}$
0.82 $\mu\text{F} < C \leq 0.91 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 90 \times 10^{-4}$
0.91 $\mu\text{F} < C \leq 1.0 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 90 \times 10^{-4}$
1.0 $\mu\text{F} < C \leq 1.2 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 120 \times 10^{-4}$
1.2 $\mu\text{F} < C \leq 1.3 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 125 \times 10^{-4}$
1.3 $\mu\text{F} < C \leq 1.5 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 135 \times 10^{-4}$
1.5 $\mu\text{F} < C \leq 1.6 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 135 \times 10^{-4}$
1.6 $\mu\text{F} < C \leq 1.8 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 135 \times 10^{-4}$
1.8 $\mu\text{F} < C \leq 2.0 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 145 \times 10^{-4}$
Rated voltage pulse slope (dU/dt) _R :		
l = 12.5 mm	80 V/ μs	
l = 17.5 mm	70 V/ μs	
l = 26.0 mm	35 V/ μs	
l = 31.0 mm	25 V/ μs (b < 15 mm)	
l = 31.0 mm	13 V/ μs (b $\geq$ 15 mm)	
R between leads for C $\leq$ 1.0 μF at 100 V; 1 min	> 100 000 M Ω	
RC between leads, for C > 1 μF at 100 V; 1 min	> 100 000 s	
R between interconnected leads and case; 100 V; 1 min	> 100 000 M Ω	
Withstanding (DC) voltage (cut off current 10 mA) ⁽¹⁾ ; rise time 1000 V/s	640 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



ELECTRICAL DATA AND ORDERING CODE						
U _{RDC} (V)	CAP. (μF)	DIMENSIONS w x h x l (mm)	MASS ⁽³⁾ (g)	CATALOG NUMBER BFC2 379 AND PACKAGING		
				LOOSE IN BOX		REEL ⁽²⁾
				l _t = 4.0 mm + 1.0 mm/- 0.5 mm ⁽¹⁾		H = 18.5 mm, P ₀ = 12.7 mm
				C-TOL. = ± 5 %	SPQ	SPQ
LAST 5 DIGITS OF CATALOG NUMBER						
400	PITCH = 10.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm; U _{RAC} = 200 V; U _{p-p} = 560 V					
	0.022	4.0 x 10.0 x 12.5	0.60	54223	1000	1400
	0.024			54243		
	0.027			54273		
	0.030			54303		
	0.033			54333		
	0.036	54363	1100			
	0.039	54393				
	0.043	54433				
	PITCH = 15.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm; U _{RAC} = 200 V; U _{p-p} = 560 V					
	0.047	5.0 x 11.0 x 17.5	1.0	54473	1000	1100
	0.051			54513		
	0.056			54563		
	0.062			54623		
	0.068			54683		
	0.075	54753	900			
	0.082	54823				
	0.091	54913				
	0.10	54104	800			
	0.11	54114				
	0.12	54124				
	0.13	6.0 x 12.0 x 17.5	1.4	54134	1000	650
	0.15			54154		
	0.16			54164		
	0.18			54184		
	PITCH = 15.0 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; U _{RAC} = 200 V; U _{p-p} = 560 V					
	0.20	7.0 x 13.5 x 17.5	1.8	54204	1000	650
	0.22			54224		
	PITCH = 22.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; U _{RAC} = 200 V; U _{p-p} = 560 V					
	0.24	6.0 x 15.5 x 26.0	2.4	54244	200	550
	0.27			54274		
	0.30			54304		
	0.33	7.0 x 16.5 x 26.0	2.9	54334	200	450
	0.36			54364		450
	0.39			54394		
	0.43			54434		
	0.47			54474		
	0.51	8.5 x 18.0 x 26.0	3.8	54514	200	350
	0.56			54564		
	0.62			54624		
PITCH = 27.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; U _{RAC} = 200 V; U _{p-p} = 560 V						
0.68	9.0 x 19.0 x 31.5	5.5	54684	100	100	
0.75			54754			
0.82			54824			
0.91	11.0 x 21.0 x 31.0	7.4	54914	100		
1.0			54105			
1.1			54115			
1.2			54125			
1.3			54135			
1.5	13.0 x 23.0 x 31.0	9.2	54155	100		
1.6			54165			
1.8			54185			
2.0			54205			

Notes

- SPQ = Standard Packing Quantity

⁽¹⁾ l_t = 4.0 mm + 1 mm / - 0.5 mm for pitch = 10 mm and 3.5 mm ± 0.3 mm for pitch = 15 mm; 22.5 mm and 27.5 mm.

⁽²⁾ H = in-tape height; P₀ = sprocket hole distance; for detailed specifications refer to packaging information: www.vishay.com/doc?28139

⁽³⁾ Weight for short lead product only



SPECIFIC REFERENCE DATA - 630 V _{DC}		
DESCRIPTION	VALUE	
Tangent of loss angle: 0.010 $\mu\text{F} < C \leq 0.027 \mu\text{F}$ 0.027 $\mu\text{F} < C \leq 0.075 \mu\text{F}$ 0.075 $\mu\text{F} < C \leq 0.11 \mu\text{F}$ 0.11 $\mu\text{F} < C \leq 0.18 \mu\text{F}$ 0.18 $\mu\text{F} < C \leq 0.30 \mu\text{F}$ 0.30 $\mu\text{F} < C \leq 0.39 \mu\text{F}$ 0.39 $\mu\text{F} < C \leq 0.56 \mu\text{F}$ 0.56 $\mu\text{F} < C \leq 0.68 \mu\text{F}$ 0.68 $\mu\text{F} < C \leq 0.82 \mu\text{F}$ 0.82 $\mu\text{F} < C \leq 1.0 \mu\text{F}$	at 10 kHz	at 100 kHz
	$\leq 10 \times 10^{-4}$	$\leq 15 \times 10^{-4}$
	$\leq 10 \times 10^{-4}$	$\leq 20 \times 10^{-4}$
	$\leq 10 \times 10^{-4}$	$\leq 25 \times 10^{-4}$
	$\leq 10 \times 10^{-4}$	$\leq 30 \times 10^{-4}$
	$\leq 10 \times 10^{-4}$	$\leq 40 \times 10^{-4}$
	$\leq 10 \times 10^{-4}$	$\leq 40 \times 10^{-4}$
	$\leq 10 \times 10^{-4}$	$\leq 45 \times 10^{-4}$
	$\leq 15 \times 10^{-4}$	$\leq 80 \times 10^{-4}$
	$\leq 15 \times 10^{-4}$	$\leq 80 \times 10^{-4}$
	$\leq 15 \times 10^{-4}$	$\leq 90 \times 10^{-4}$
Rated voltage pulse slope (dU/dt) _R : l = 12.5 mm l = 17.5 mm l = 26.0 mm l = 31.0 mm l = 31.0 mm	100 V/ μs 90 V/ μs 45 V/ μs 30 V/ μs (b < 15 mm) 15 V/ μs (b $\geq$ 15 mm)	
R between leads for $C \leq 1.0 \mu\text{F}$ at 500 V; 1 min	> 100 000 M Ω	
RC between leads, for $C > 1 \mu\text{F}$ at 100 V; 1 min	> 100 000 s	
R between interconnected leads and case; 500 V; 1 min	> 100 000 M Ω	
Withstanding (DC) voltage (cut off current 10 mA) ⁽¹⁾ ; rise time 1000 V/s	960 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



ELECTRICAL DATA AND ORDERING CODE														
U _{RDC} (V)	CAP. (μF)	DIMENSIONS w x h x l (mm)	MASS ⁽³⁾ (g)	CATALOG NUMBER BFC2 379 AND PACKAGING										
				LOOSE IN BOX		REEL ⁽²⁾								
				l _t = 4.0 mm + 1.0 mm/- 0.5 mm ⁽¹⁾		H = 18.5 mm, P ₀ = 12.7 mm								
				C-TOL. = ± 5 %	SPQ	SPQ								
LAST 5 DIGITS OF CATALOG NUMBER														
630	PITCH = 10.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm; U _{RAC} = 220 V; U _{p-p} = 620 V													
	0.010 0.011 0.012 0.013 0.015 0.016	4.0 x 10.0 x 12.5	0.60	64103 64113 64123 64133 64153 64163	1000	1400								
	0.018 0.020 0.022 0.024			64183 64203 64223 64243			1100							
	PITCH = 15.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm; U _{RAC} = 220 V; U _{p-p} = 620 V													
	0.027 0.030 0.033 0.036 0.039			5.0 x 11.0 x 17.5				1.0	64273 64303 64333 64363 64393	1000	1100			
	0.043 0.047 0.051 0.056 0.062								64433 64473 64513 64563 64623			900		
	0.068								64683				800	
	0.075 0.082 0.091 0.10	6.0 x 12.0 x 17.5	1.4		64753 64823 64913 64104	1000			800 650					
	PITCH = 15.0 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; U _{RAC} = 220 V; U _{p-p} = 620 V													
	0.11				7.0 x 13.5 x 17.5		1.8		64114				1000	650
	PITCH = 22.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; U _{RAC} = 220 V; U _{p-p} = 620 V													
	0.12 0.13 0.15 0.16			6.0 x 15.5 x 26.0	2.4		64124 64134 64154 64164	200	550					
	0.18						64184			450				
	0.20 0.22	7.0 x 16.5 x 26.0	2.9			64204 64224	200			450				
	0.24					64244				350				
	0.27 0.30			8.5 x 18.0 x 26.0	3.8	64274 64304		200	350					
	PITCH = 27.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; U _{RAC} = 220 V; U _{p-p} = 620 V													
	0.33 0.36 0.39 0.43 0.47 0.51	9.0 x 19.0 x 31.5	5.5			64334 64364 64394 64434 64474 64514	100							
	0.56 0.62 0.68 0.75					11.0 x 21.0 x 31.0					7.4	64564 64624 64684 64754	100	
	0.82 0.91 1.0			13.0 x 23.0 31.0	9.2			64824 64914 64105	100					

Notes

- SPQ = Standard Packing Quantity

- U_{RAC} = 250 V/U_{p-p} = 700 V for C > 0.11 μF.

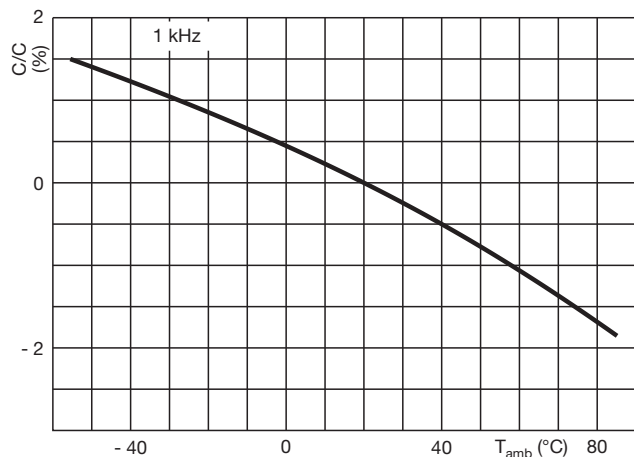
⁽¹⁾ l_t = 4.0 mm + 1 mm / - 0.5 mm for pitch = 10 mm and 3.5 mm ± 0.3 mm for pitch = 15 mm; 22.5 mm and 27.5 mm.

⁽²⁾ H = in-tape height; P₀ = sprocket hole distance; for detailed specifications refer to packaging information: www.vishay.com/doc?28139

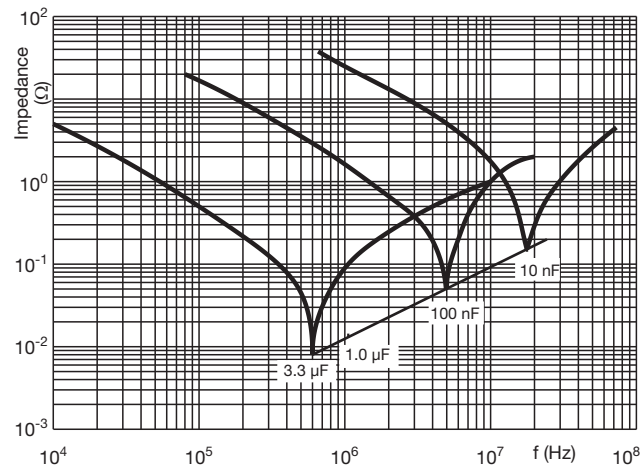
⁽³⁾ Weight for short lead product only



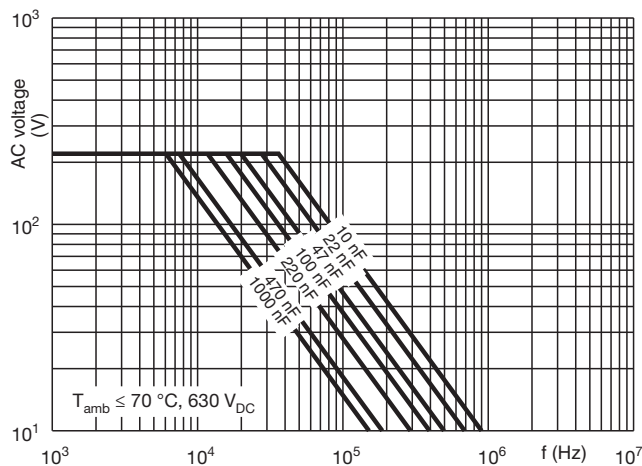
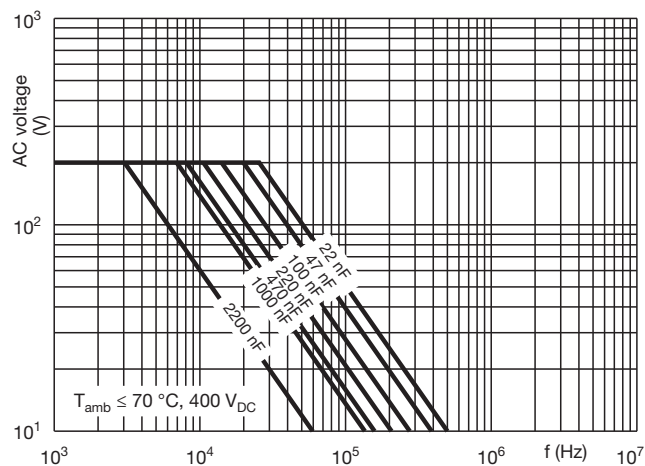
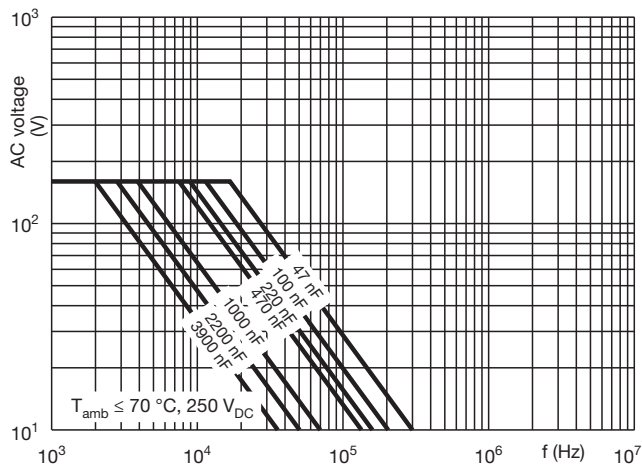
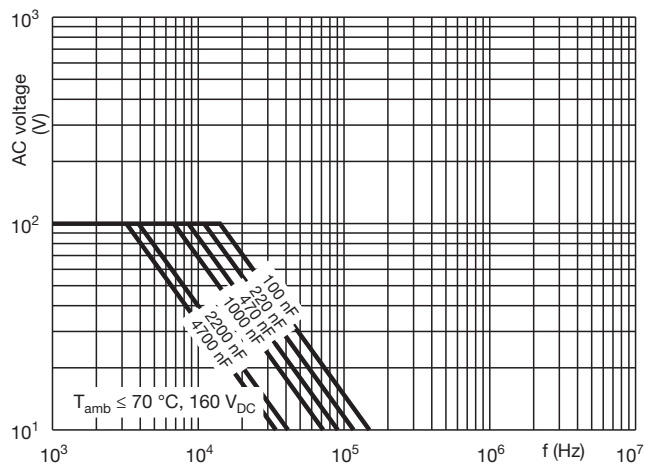
CAPACITANCE



IMPEDANCE



MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY





Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

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 in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

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