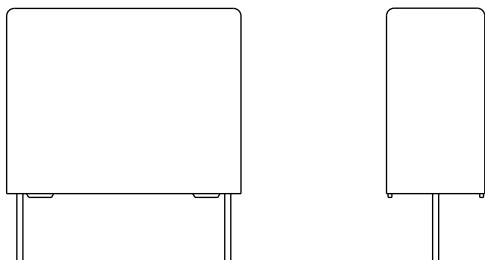




AC and Pulse Metallized Polypropylene Film Capacitors MKP Radial Potted Type



FEATURES

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

APPLICATIONS

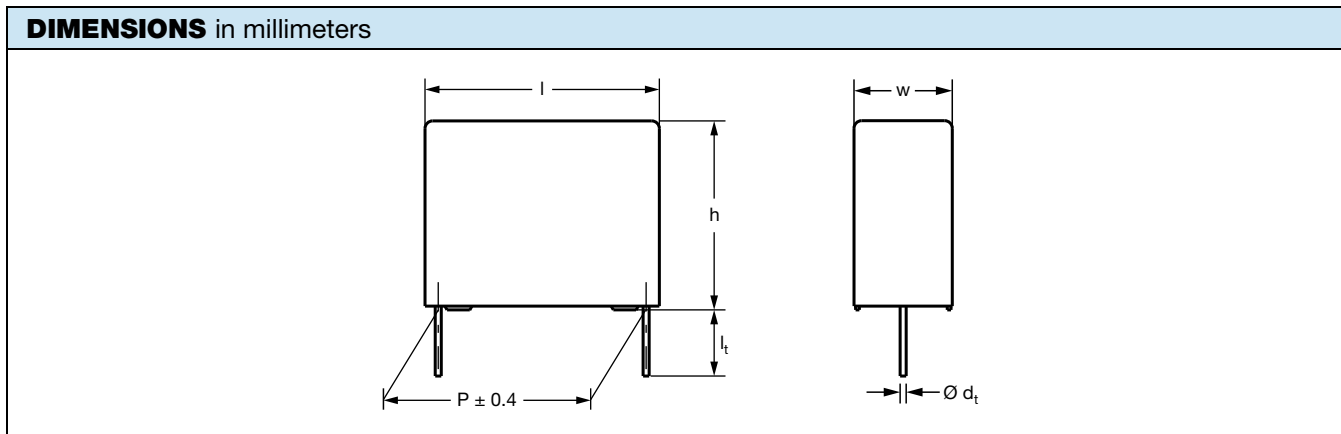
Low losses due to low contact resistance and low loss dielectric make these products suitable for applications where high currents at high frequency occur or high stability is preferred. Their small dimensions make them ideal for circuits with high packaging density.



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



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:		
$C \leq 0.075 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 20 \times 10^{-4}$
$0.075 \mu\text{F} < C \leq 0.11 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 25 \times 10^{-4}$
$0.11 \mu\text{F} < C \leq 0.16 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 30 \times 10^{-4}$
$0.16 \mu\text{F} < C \leq 0.22 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 40 \times 10^{-4}$
$0.22 \mu\text{F} < C \leq 0.30 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 45 \times 10^{-4}$
$0.30 \mu\text{F} < C \leq 0.39 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 45 \times 10^{-4}$
$0.39 \mu\text{F} < C \leq 0.56 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 80 \times 10^{-4}$
$0.56 \mu\text{F} < C \leq 0.68 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 80 \times 10^{-4}$
$0.68 \mu\text{F} < C \leq 0.82 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 90 \times 10^{-4}$
$0.82 \mu\text{F} < C \leq 0.91 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 90 \times 10^{-4}$
$0.91 \mu\text{F} < C \leq 1.0 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 120 \times 10^{-4}$
$1.0 \mu\text{F} < C \leq 1.2 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 125 \times 10^{-4}$
$1.2 \mu\text{F} < C \leq 1.3 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 125 \times 10^{-4}$
$1.3 \mu\text{F} < C \leq 1.5 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 135 \times 10^{-4}$
$1.5 \mu\text{F} < C \leq 1.6 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 135 \times 10^{-4}$
$1.6 \mu\text{F} < C \leq 1.8 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 135 \times 10^{-4}$
$1.8 \mu\text{F} < C \leq 2.0 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 145 \times 10^{-4}$
$2.0 \mu\text{F} < C \leq 2.2 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 145 \times 10^{-4}$
$2.2 \mu\text{F} < C \leq 2.4 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 145 \times 10^{-4}$
$2.4 \mu\text{F} < C \leq 2.7 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 155 \times 10^{-4}$
$2.7 \mu\text{F} < C \leq 3.0 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 155 \times 10^{-4}$
$3.0 \mu\text{F} < C \leq 3.3 \mu\text{F}$	$\leq 20 \times 10^{-4}$	$\leq 160 \times 10^{-4}$
$3.3 \mu\text{F} < C \leq 3.6 \mu\text{F}$	$\leq 20 \times 10^{-4}$	$\leq 160 \times 10^{-4}$
$3.6 \mu\text{F} < C \leq 3.9 \mu\text{F}$	$\leq 20 \times 10^{-4}$	$\leq 160 \times 10^{-4}$
$3.9 \mu\text{F} < C \leq 4.3 \mu\text{F}$	$\leq 20 \times 10^{-4}$	$\leq 165 \times 10^{-4}$
$4.3 \mu\text{F} < C \leq 4.7 \mu\text{F}$	$\leq 20 \times 10^{-4}$	$\leq 165 \times 10^{-4}$
$4.7 \mu\text{F} < C \leq 5.1 \mu\text{F}$	$\leq 20 \times 10^{-4}$	$\leq 165 \times 10^{-4}$
$5.1 \mu\text{F} < C \leq 5.6 \mu\text{F}$	$\leq 20 \times 10^{-4}$	$\leq 175 \times 10^{-4}$
$5.6 \mu\text{F} < C \leq 6.2 \mu\text{F}$	$\leq 40 \times 10^{-4}$	$\leq 195 \times 10^{-4}$
Rated voltage pulse slope (dU/dt) _R :		
l = 12.5 mm		60 V/μs
l = 17.5 mm		50 V/μs
l = 26.0 mm		25 V/μs
l = 31.0 mm		15 V/μs (b < 15 mm)
l = 31.0 mm		7.5 V/μs (b ≥ 15 mm)
R between leads for C ≤ 1.0 μF at 100 V; 1 min		> 100 000 MΩ
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 MΩ
Withstanding (DC) voltage (cut off current 10 mA) ⁽¹⁾ ; rise time ≤ 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							
PITCH = 10.0 mm ± 0.4 mm; d_t = 0.60 mm ± 0.06 mm; U_{RAC} = 100 V; U_{p-p} = 280 V							
160	0.075	4.0 x 10.0 x 12.5	0.60	34753	1000	1400	
	0.082			34823			
	0.091			34913			
	0.10			34104			
	0.11			34114			
	0.12	34124	1100				
	0.13	34134					
	0.15	34154					
	0.16	5.0 x 11.0 x 12.5	0.82	34164	1000	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						
	160	0.18	5.0 x 11.0 x 17.5	1.0	34184	1000	1100
		0.20			34204		
		0.22			34224		
		0.24			34244		
		0.27			34274		
		0.30	34304	900			
0.33		6.0 x 12.0 x 17.5	1.4	34334	1000	900	
0.36				34364			
0.39				34394		800	
0.43				34434			
0.47	34474						
PITCH = 15.0 mm ± 0.4 mm; d_t = 0.80 mm ± 0.08 mm; U_{RAC} = 100 V; U_{p-p} = 280 V							
160	0.51	7.0 x 13.5 x 17.5	1.8	34514	1000	800	
	0.56			34564		650	
	0.62			34624			
	0.68	8.5 x 15.0 x 17.5	2.4	34684	1000	650	
	0.75			34754			
PITCH = 22.5 mm ± 0.4 mm; d_t = 0.80 mm ± 0.08 mm; U_{RAC} = 100 V; U_{p-p} = 280 V							
160	0.82	6.0 x 15.5 x 26.0	2.4	34824	200	550	
	0.91			34914			
	1.0	7.0 x 16.5 x 26.0	2.9	34105	200	450	
	1.1			34115			
	1.2			34125			
	1.3	8.5 x 18.0 x 26.0	3.8	34135	200	450	
	1.5			34155		350	
	1.6			34165			
	1.8			34185			
	PITCH = 27.5 mm ± 0.4 mm; d_t = 0.80 mm ± 0.08 mm; U_{RAC} = 100 V; U_{p-p} = 280 V						
	160	2.0	9.0 x 19.0 x 31.5	5.5	34205	100	
		2.2			34225		
		2.4	11.0 x 21.0 x 31.0	7.4	34245	100	
		2.7			34275		
3.0		34305					
3.3		34335					
3.6		13.0 x 23.0 x 31.0	9.2	34365	100		
3.9				34395			
4.3				34435			
4.7		15.0 x 25.0 x 31.5	12.3	34475	100		
5.1	34515						
5.6	34565						
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	
	at 10 kHz	at 100 kHz
Tangent of loss angle:		
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	4.0 x 10.0 x 12.5	0.60	44473	1000	1400
	0.051			44513		
	0.056			44563		
	0.062			44623		
	0.068			44683		
	0.075			44753		
	0.082	44823	1100			
	0.091	44913				
	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	5.0 x 11.0 x 17.5	1.0	44104	1000	1100
	0.11			44114		
	0.12			44124		
	0.13			44134		
	0.15			44154		
	0.16			44164		
	0.18	44184	900			
	0.20	44204				
	0.22	44224				
	0.24	44244				
	0.27	6.0 x 12.0 x 17.5	1.4	44274	1000	800
	0.30			44304		
	0.33			44334		
	0.36			44364		
	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	7.0 x 13.5 x 17.5	1.8	44394	1000	650
	0.43			44434		
	0.47			44474		
	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	6.0 x 15.5 x 26.0	2.4	44514	200	550
	0.56			44564		
	0.62			44624		
	0.68			44684		
	0.75	7.0 x 16.5 x 26.0	2.9	44754	200	450
	0.82			44824		
	0.91			44914		
1.0	44105					
1.1	8.5 x 18.0 x 26.0	3.8	44115	200	350	
1.2			44125			
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	9.0 x 19.0 x 31.5	5.5	44135	100		
1.5			44155			
1.6			44165			
1.8			44185			
2.0	11.0 x 21.0 x 31.0	7.4	44205	100		
2.2			44225			
2.4			44245			
2.7			44275			
3.0			44305			
3.3	13.0 x 23.0 x 31.0	9.2	44335	100		
3.6			44365			
3.9			44395			

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 - 400 V _{DC}		
DESCRIPTION	VALUE	
	at 10 kHz	at 100 kHz
Tangent of loss angle:		
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		
	0.039	54393	1100			
	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		
	0.082	54823	900			
	0.091	54913				
	0.10	54104				
	0.11	54114				
	0.12	54124	800			
	0.13	54134				
	0.15	54154				
	0.16	54164	650			
	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	54334	2.9	200	450	
	0.36	54364				
	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		
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			54155			
1.6	13.0 x 23.0 x 31.0	9.2	54165	100		
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	
	at 10 kHz	at 100 kHz
Tangent of loss angle:		
0.010 $\mu\text{F} < C \leq 0.027 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 15 \times 10^{-4}$
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 $\mu\text{F} < C \leq 0.30 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 40 \times 10^{-4}$
0.30 $\mu\text{F} < C \leq 0.39 \mu\text{F}$	$\leq 10 \times 10^{-4}$	$\leq 40 \times 10^{-4}$
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 $\mu\text{F} < C \leq 1.0 \mu\text{F}$	$\leq 15 \times 10^{-4}$	$\leq 90 \times 10^{-4}$
Rated voltage pulse slope (dU/dt) _R :		
l = 12.5 mm		100 V/ μs
l = 17.5 mm		90 V/ μs
l = 26.0 mm		45 V/ μs
l = 31.0 mm		30 V/ μs (b < 15 mm)
l = 31.0 mm		15 V/ μs (b \geq 15 mm)
R between leads for C \leq 1.0 μF at 500 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; 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					
	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 0.24	7.0 x 16.5 x 26.0	2.9			64204 64224 64244	200			450			
	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	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 x 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.

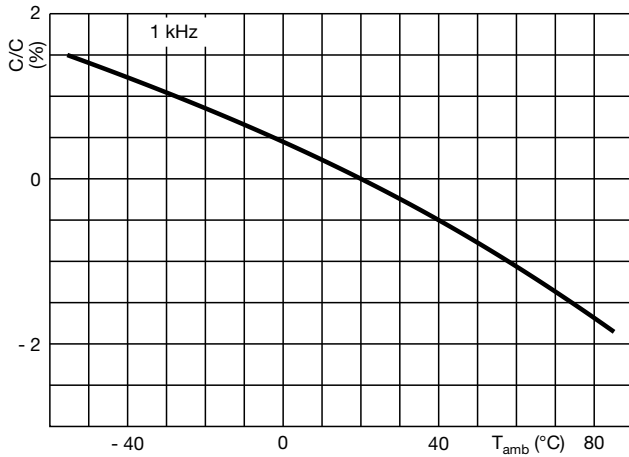
⁽¹⁾ l_t = 4.0 mm + 1 mm / - 0.5 mm for pitch = 10 mm and 3.5 mm ± 0.3 mm for pitch = 15 mm; 22.5 mm and 27.5 mm.

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

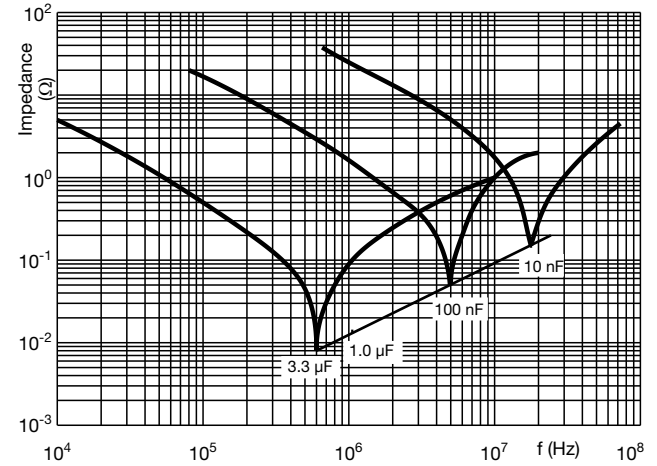
⁽³⁾ Weight for short lead product only



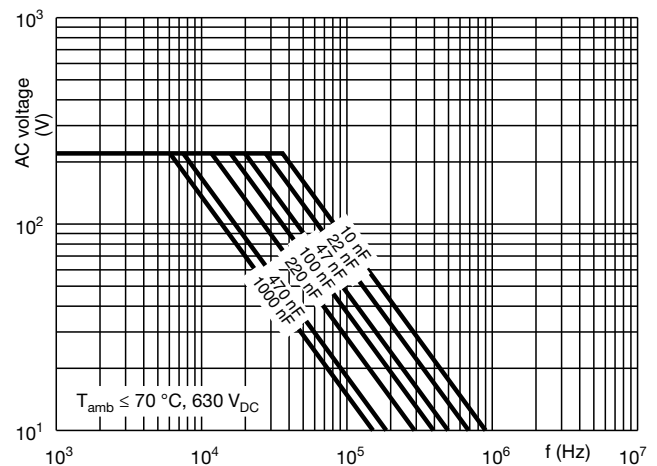
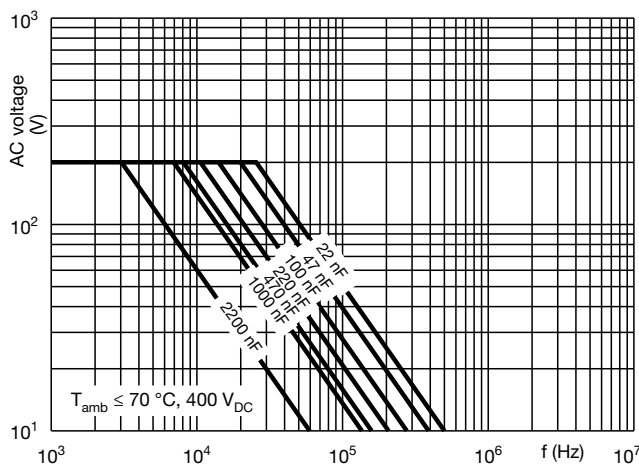
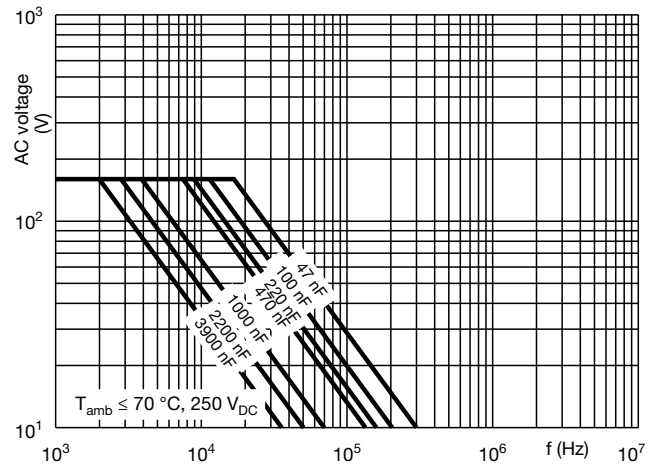
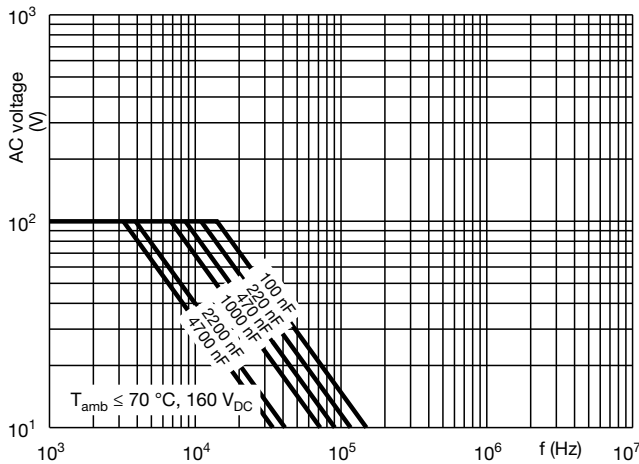
CAPACITANCE



IMPEDANCE



MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY





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