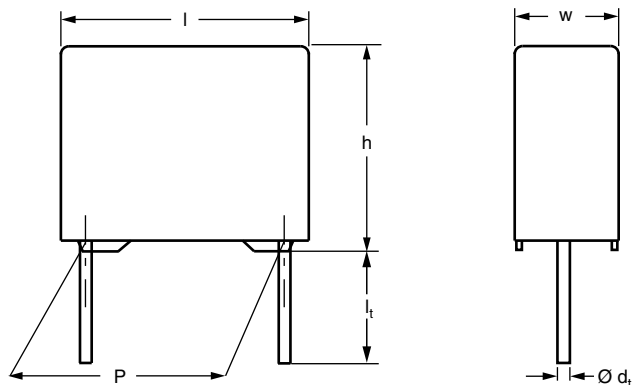


DC Film Capacitors MKT Radial Potted Type



APPLICATIONS

Blocking and coupling, bypass and energy reservoir

REFERENCE STANDARDS

IEC 60384-2

MARKING

C-value; tolerance; rated voltage; manufacturer's symbol; year and week of manufacturer; manufacturer's type

DIELECTRIC

Polyester film

ELECTRODES

Metallized

CONSTRUCTION

Mono construction

RATED (DC) VOLTAGE 371

63 V, 100 V, 250 V, 400 V

RATED (DC) VOLTAGE 372

100 V, 250 V, 400 V, 630 V

RATED (DC) VOLTAGE 373

100 V, 250 V, 400 V, 630 V

RATED (AC) VOLTAGE 371

40 V, 63 V, 160 V, 220 V

RATED (AC) VOLTAGE 372

63 V, 160 V, 220 V, 250 V

RATED (AC) VOLTAGE 373

63 V, 160 V, 220 V, 250 V

FEATURES

- 371: 7.62 mm lead pitch. Supplied loose in box and taped on reel or ammopack
- 372: 10 mm lead pitch. Supplied loose in box and taped on reel or ammopack
- 373: 15 mm to 27.5 mm lead pitch. Supplied loose in box and taped on reel
- Compliant to RoHS Directive 2002/95/EC



RoHS
COMPLIANT

ENCAPSULATION

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

CLIMATIC TESTING CLASS ACC. TO IEC 60068-1

55/105/56

CAPACITANCE RANGE (E12 SERIES)

371: 0.0039 μ F to 1.5 μ F

372: 0.0047 μ F to 0.68 μ F

373: 0.047 μ F to 15 μ F

CAPACITANCE TOLERANCE

$\pm 10 \%$, $\pm 5 \%$

LEADS

Tinned wire

RATED TEMPERATURE

85 °C

MAXIMUM APPLICATION TEMPERATURE

105 °C

PERFORMANCE GRADE

Grade 1 (long life)

DETAIL SPECIFICATION

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

**COMPOSITION OF CATALOG NUMBER: 371**

TYPE AND PITCHES		CAPACITANCE (numerically)		MULTIPLIER (nF)	
371	7.62 mm			0.1	2
				1	3
				10	4
				100	5

BFC2	371	XX	YY	Y
2222 (*)	371	XX	YY	Y

(*) Old ordering number

Example:
104 = 10 x 10 = 100 nF

TYPE	PACKAGING	LEAD CONFIGURATION	PREFERRED TYPES				
			C-TOL.	63 V	100 V	250 V	400 V
371	Loose in box	Lead length 4.0 mm + 1.0 mm/- 0.5 mm	± 10 %	11	21	41	51
			± 5 %	12	22	42	52
		Lead length 26.0 ± 2.0 mm	± 10 %	15	25	45	55
			± 5 %	16	26	46	56
	Taped on reel ⁽¹⁾	H ⁽¹⁾ = 18.5 mm P ₀ = 12.7 mm Reel diameter = 356 mm	± 10 %	35	65	75	85
			± 5 %	36	66	76	86
	Ammopack ⁽¹⁾	H ⁽¹⁾ = 18.5 mm P ₀ = 12.7 mm	± 10 %	38	68	78	88
			± 5 %	39	69	79	89

Note

⁽¹⁾ For detailed tape specifications refer to packaging information: www.vishay.com/doc?28139

SPECIFIC REFERENCE DATA

DESCRIPTION	VALUE			
Tangent of loss angle: C ≤ 0.1 μF 0.1 μF < C ≤ 0.47 μF 0.47 μF < C ≤ 1.5 μF	at 1 kHz	at 10 kHz	at 100 kHz	
	≤ 75 x 10 ⁻⁴	≤ 130 x 10 ⁻⁴	≤ 250 x 10 ⁻⁴	
	≤ 75 x 10 ⁻⁴	≤ 130 x 10 ⁻⁴	≤ 250 x 10 ⁻⁴	
	≤ 75 x 10 ⁻⁴	≤ 130 x 10 ⁻⁴	-	
Rated voltage pulse slope (dU/dt) _R at	63 V _{DC}	100 V _{DC}	250 V _{DC}	400 V _{DC}
	18 V/μs	36 V/μs	70 V/μs	190 V/μs
R between leads, for C ≤ 0.33 μF at 10 V; 1 min at 100 V; 1 min	> 15 000 MΩ	> 15 000 MΩ	> 30 000 MΩ	> 30 000 MΩ
RC between leads, for C > 0.33 μF at 10 V; 1 min at 100 V; 1 min	> 5000 s	> 5000 s	-	-
R between interconnecting leads and case (foil method)	> 30 000 MΩ			
Withstanding (DC) voltage (cut off current 10 mA) ⁽¹⁾ ; rise time ≤ 1000 V/s	100 V; 1 min	160 V; 1 min	400 V; 1 min	640 V; 1 min
Withstanding (DC) voltage between leads and case	200 V; 1 min	20 V; 1 min	500 V; 1 min	800 V; 1 min
Maximum application temperature	105 °C			

Note

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

$U_{RDC} = 63 \text{ V}$; $U_{RAC} = 40 \text{ V}$

C (μF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 371 XYYYY AND PACKAGING									
			LOOSE IN BOX				AMMOPACK ⁽²⁾		REEL ⁽¹⁾⁽²⁾		C-VALUE	
			l _t = 4.0 mm + 1.0 mm/- 0.5 mm		l _t = 26.0 mm ± 2.0 mm		H = 18.5 mm; P ₀ = 12.7 mm		H = 18.5 mm; P ₀ = 12.7 mm			
			C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %		
			XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)		..YYY
Pitch = 7.62 mm + 0.30 mm/- 0.40 mm; d _t = 0.50 mm ± 0.05 mm												
0.056 0.068 0.082 0.1	2.5 x 6.5 x 10.0	0.24	11... (1000)	12... (1000)	15... (1000)	16... (1000)	38... (2000)	39... (2000)	35... (2000)	36... (2000)	563 683 823 104	
0.12 0.15 0.18 0.22	3.0 x 8.0 x 10.0	0.34	11... (1000)	12... (1000)	15... (1000)	16... (1000)	38... (1500)	39... (1500)	35... (1500)	36... (1500)	124 154 184 224	
0.27 0.33 0.39 0.47 0.56 0.68	4.0 x 9.0 x 10.0	0.51	11... (1000)	12... (1000)	15... (1000)	16... (1000)	38... (1000)	39... (1000)	35... (1500)	36... (1500)	274 334 394 474 564 684	
0.82 1.0	5.0 x 10.5 x 10.0	0.73	11... (1000)	12... (1000)	15... (1000)	16... (1000)	38... (1000)	39... (1000)	35... (1000)	36... (1000)	824 105	
1.2 1.5	6.0 x 11.5 x 10.0	1.0	11... (750)	12... (750)	15... (1000)	16... (1000)	38... (500)	39... (500)	35... (500)	36... (500)	125 155	

Notes

• SPQ = Standard Packing Quantity

⁽¹⁾ Reel diameter = 356 mm is available on request⁽²⁾ H = In-tape height; P_0 = Sprocket hole distance; for detailed specifications refer to "Packaging Information"⁽³⁾ Weight for short lead product only $U_{RDC} = 100 \text{ V}$; $U_{RAC} = 63 \text{ V}$

C (μ F)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 371 XYYYY AND PACKAGING								C-VALUE
			LOOSE IN BOX				AMMOPACK ⁽²⁾		REEL ⁽¹⁾⁽²⁾		
			$l_t = 4.0 \text{ mm}$ + 1.0 mm/- 0.5 mm		$l_t = 26.0 \text{ mm}$ $\pm 2.0 \text{ mm}$		H = 18.5 mm; P ₀ = 12.7 mm		H = 18.5 mm; P ₀ = 12.7 mm		
			C-tol. = $\pm 10 \%$	C-tol. = $\pm 5 \%$	C-tol. = $\pm 10 \%$	C-tol. = $\pm 5 \%$	C-tol. = $\pm 10 \%$	C-tol. = $\pm 5 \%$	C-tol. = $\pm 10 \%$	C-tol. = $\pm 5 \%$	
			XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	
Pitch = 7.62 mm + 0.30 mm/- 0.40 mm; d _t = 0.50 mm $\pm$ 0.05 mm											
0.018 0.022 0.027 0.033 0.039 0.047	2.5 x 6.5 x 10.0	0.24	21... (1000)	22... (1000)	25... (1000)	26... (1000)	68... (2000)	69... (2000)	65... (2000)	66... (2000)	183 223 273 333 393 473
0.056 0.068 0.082 0.1	3.0 x 8.0 x 10.0	0.34	21... (1000)	22... (1000)	25... (1000)	26... (1000)	68... (1500)	69... (1500)	65... (1500)	66... (1500)	563 683 823 104
0.12 0.15 0.18 0.22	4.0 x 9.0 x 10.0	0.51	21... (1000)	22... (1000)	25... (1000)	26... (1000)	68... (1000)	69... (1000)	65... (1500)	66... (1500)	124 154 184 224
0.27 0.33 0.39 0.47	5.0 x 10.5 x 10.0	0.73	21... (1000)	22... (1000)	25... (1000)	26... (1000)	68... (1000)	69... (1000)	65... (1000)	66... (1000)	274 334 394 474

Notes

• SPQ = Standard Packing Quantity

⁽¹⁾ Reel diameter = 356 mm is available on request⁽²⁾ H = In-tape height; P_0 = Sprocket hole distance; for detailed specifications refer to "Packaging Information"⁽³⁾ Weight for short lead product only



$U_{RDC} = 250 \text{ V}$; $U_{RAC} = 160 \text{ V}$

C (μF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 371 XYYYY AND PACKAGING									C-VALUE
			LOOSE IN BOX				AMMOPACK ⁽²⁾		REEL ⁽¹⁾⁽²⁾			
			l _t = 4.0 mm + 1.0 mm/- 0.5 mm		l _t = 26.0 mm ± 2.0 mm		H = 18.5 mm; P ₀ = 12.7 mm		H = 18.5 mm; P ₀ = 12.7 mm			
			C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %		
			XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)		
Pitch = 7.62 mm + 0.30 mm/- 0.40 mm; d _t = 0.50 mm ± 0.05 mm												
0.082 0.01 0.012 0.015	2.5 x 6.5 x 10.0	0.24	41... (1000)	42... (1000)	45... (1000)	46... (1000)	78... (2000)	79... (2000)	75... (2000)	76... (2000)	822 103 123 153	
0.018 0.022 0.027 0.033 0.039 0.047	3.0 x 8.0 x 10.0	0.34	41... (1000)	42... (1000)	45... (1000)	46... (1000)	78... (1500)	79... (1500)	75... (1500)	76... (1500)	183 223 273 333 393 473	
0.056 0.068 0.082 0.1	4.0 x 9.0 x 10.0	0.51	41... (1000)	42... (1000)	45... (1000)	46... (1000)	78... (1000)	79... (1000)	75... (1500)	76... (1500)	563 683 823 104	
0.12	5.0 x 10.5 x 10.0	0.73	41... (1000)	42... (1000)	45... (1000)	46... (1000)	78... (1000)	79... (1000)	75... (1000)	76... (1000)	124	

Notes

• SPQ = Standard Packing Quantity

⁽¹⁾ Reel diameter = 356 mm is available on request

⁽²⁾ H = In-tape height; P_0 = Sprocket hole distance; for detailed specifications refer to "Packaging Information"

⁽³⁾ Weight for short lead product only

$U_{RDC} = 400 \text{ V}$; $U_{RAC} = 220 \text{ V}$

C (μF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽¹⁾	CATALOG NUMBER BFC2 371 XYYYY AND PACKAGING								C-VALUE
			LOOSE IN BOX				AMMOPACK ⁽²⁾		REEL ⁽¹⁾⁽²⁾		
			l _t = 4.0 mm + 1.0 mm/ - 0.5 mm		l _t = 26.0 mm ± 2.0 mm		H = 18.5 mm; P ₀ = 12.7 mm		H = 18.5 mm; P ₀ = 12.7 mm		
			C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %	
			XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	
Pitch = 7.62 mm + 0.30 mm/- 0.40 mm; d _t = 0.50 mm ± 0.05 mm											
0.0039 0.0047 0.0056 0.0068	2.5 x 6.5 x 10.0	0.24	51... (1000)	52... (1000)	55... (1000)	56... (1000)	88... (2000)	89... (2000)	85... (2000)	86... (2000)	392 472 562 682
0.0082 0.01	3.0 x 8.0 x 10.0	0.34	51... (1000)	52... (1000)	55... (1000)	56... (1000)	88... (1500)	89... (1500)	85... (1500)	86... (1500)	822 103
0.012 0.015	4.0 x 9.0 x 10.0	0.51	51... (1000)	52... (1000)	55... (1000)	56... (1000)	88... (1000)	89... (1000)	85... (1500)	86... (1500)	123 153
0.018 0.022 0.027 0.033 0.039	5.0 x 10.5 x 10.0	0.73	51... (1000)	52... (1000)	55... (1000)	56... (1000)	88... (1000)	89... (1000)	85... (1000)	86... (1000)	183 223 273 333 393

Notes

• SPQ = Standard Packing Quantity

⁽¹⁾ Reel diameter = 356 mm is available on request

⁽²⁾ H = in-tape height; P_0 = Sprocket hole distance; for detailed specifications refer to "Packaging Information"

⁽³⁾ Weight for short lead products only

COMPOSITION OF CATALOG NUMBER: 372

TYPE AND PITCHES		CAPACITANCE (numerically)	MULTIPLIER (nF)	
372	10.00 mm		0.1	2
			1	3
			10	4

BFC2	372	XX	YY	Y
2222 (*)	372	XX	YY	Y

(*) Old ordering number

Example:
104 = 10 x 10 = 100 nF

TYPE	PACKAGING	LEAD CONFIGURATION	PREFERRED TYPES				
			C-TOL.	100 V	250 V	400 V	630 V
372	Loose in box	Lead length 4.0 mm + 1.0 mm/- 0.5 mm	± 10 %	21	41	51	61
			± 5 %	22	42	52	62
	Taped on reel ⁽¹⁾	H ⁽¹⁾ = 18.5 mm P ₀ = 12.7 mm Reel diameter = 356 mm	± 10 %	25	45	55	65
			± 5 %	26	46	56	66
	Ammopack ⁽¹⁾	H ⁽¹⁾ = 18.5 mm P ₀ = 12.7 mm	± 10 %	28	48	58	68
			± 5 %	29	49	59	69

Note

⁽¹⁾ For detailed tape specifications refer to packaging information: www.vishay.com/doc?28139

SPECIFIC REFERENCE DATA

DESCRIPTION	VALUE			
Tangent of loss angle: C ≤ 0.1 μF 0.1 μF < C ≤ 0.68 μF	at 1 kHz	at 10 kHz	at 100 kHz	
	≤ 75 x 10 ⁻⁴	≤ 130 x 10 ⁻⁴	≤ 250 x 10 ⁻⁴	
	≤ 75 x 10 ⁻⁴	≤ 130 x 10 ⁻⁴	≤ 250 x 10 ⁻⁴	
Rated voltage pulse slope (dU/dt) _R at	100 V _{DC}	250 V _{DC}	400 V _{DC}	630 V _{DC}
	34 V/μs	50 V/μs	80 V/μs	120 V/μs
R between leads, for C ≤ 0.33 μF at 10 V; 1 min at 100 V; 1 min	> 15 000 MΩ	> 15 000 MΩ	> 30 000 MΩ	> 30 000 MΩ
RC between leads, for C > 0.33 μF at 100 V; 1 min	> 5000 s			
R between interconnecting leads and case (foil method)	> 30 000 MΩ			
Withstanding (DC) voltage (cut off current 10 mA) ⁽¹⁾ ; rise time ≤ 1000 V/s	160 V; 1 min	400 V; 1 min	640 V; 1 min	1008 V; 1 min
Withstanding (DC) voltage between leads and case	200 V; 1 min	500 V; 1 min	800 V; 1 min	1260 V; 1 min
Maximum application temperature	105 °C			

Note

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



MKT371, MKT372, MKT373

DC Film Capacitors
MKT Radial Potted Type

Vishay BCcomponents

$U_{RDC} = 100 \text{ V}$; $U_{RAC} = 63 \text{ V}$

C (μF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 372 XYYYY AND PACKAGING							
			LOOSE IN BOX		REEL ⁽¹⁾⁽²⁾		AMMOPACK ⁽²⁾		C-VALUE	
			l _t = 4.0 mm + 1.0 mm/- 0.5 mm		H = 18.5 mm; P ₀ = 12.7 mm		H = 18.5 mm; P ₀ = 12.7 mm			
			C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %		
			XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	..YYY	
Pitch = 10.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm										
0.1 0.12 0.15 0.18 0.22 0.27 0.33	4.0 x 10.0 x 12.5	0.65	21... (1000)	22... (1000)	25... (1400)	26... (1400)	28... (750)	29... (750)	104 124 154 184 224 274 334	
0.39 0.47	5.0 x 11.0 x 12.5	0.87	21... (1000)	22... (1000)	25... (1100)	26... (1100)	28... (600)	29... (600)	394 474	
0.56 0.68	6.0 x 12.0 x 12.5	1.15	21... (750)	22... (750)	25... (900)	26... (900)	28... (500)	29... (500)	564 684	

Notes

• SPQ = Standard Packing Quantity

⁽¹⁾ Reel diameter = 356 mm is available on request

⁽²⁾ H = in-tape height; P_0 = Sprocket hole distance; for detailed specifications refer to "Packaging Information"

⁽³⁾ Weight for short lead product only

$U_{RDC} = 250 \text{ V}$; $U_{RAC} = 160 \text{ V}$

C (μF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 372 XYYYY AND PACKAGING							
			LOOSE IN BOX		REEL ⁽¹⁾⁽²⁾		AMMOPACK ⁽²⁾		C-VALUE	
			l _t = 4.0 mm + 1.0 mm/- 0.5 mm		H = 18.5 mm; P ₀ = 12.7 mm		H = 18.5 mm; P ₀ = 12.7 mm			
			C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %		
			XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)		..YYY
Pitch = 10.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm										
0.047 0.056 0.068 0.082 0.1	4.0 x 10.0 x 12.5	0.65	41... (1000)	42... (1000)	45... (1400)	46... (1400)	48... (750)	49... (750)	473 563 683 823 104	
0.12 0.15	5.0 x 11.0 x 12.5	0.87	41... (1000)	42... (1000)	45... (1100)	46... (1100)	48... (600)	49... (600)	124 154	
0.18 0.22	6.0 x 12.0 x 12.5	1.15	41... (750)	42... (750)	45... (900)	46... (900)	48... (500)	49... (500)	184 224	

Notes

• SPQ = Standard Packing Quantity

⁽¹⁾ Reel diameter = 356 mm is available on request

⁽²⁾ H = in-tape height; P_0 = Sprocket hole distance; for detailed specifications refer to "Packaging Information"

⁽³⁾ Weight for short lead product only

$U_{RDC} = 400 \text{ V}$; $U_{RAC} = 220 \text{ V}$

C (μF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 372 XYYYY AND PACKAGING							C-VALUE
			LOOSE IN BOX		REEL ⁽¹⁾⁽²⁾		AMMOPACK ⁽²⁾			
			l _t = 4.0 mm + 1.0 mm/- 0.5 mm		H = 18.5 mm; P ₀ = 12.7 mm		H = 18.5 mm; P ₀ = 12.7 mm			
			C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %		
			XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	..YYY	
Pitch = 10.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm										
0.0047 0.0056 0.0068 0.0082 0.01 0.012 0.015 0.018 0.022 0.027 0.033	4.0 x 10.0 x 12.5	0.65	51... (1000)	52... (1000)	55... (1400)	56... (1400)	58... (750)	59... (750)	472 562 682 822 103 123 153 183 223 273 333	
0.039 0.047 0.056	5.0 x 11.0 x 12.5	0.87	51... (1000)	52... (1000)	55... (1100)	56... (1100)	58... (600)	59... (600)	393 473 563	
0.068 0.082	6.0 x 12.0 x 12.5	1.15	51... (750)	52... (750)	55... (900)	56... (900)	58... (500)	59... (500)	683 823	

Notes

• SPQ = Standard Packing Quantity

⁽¹⁾ Reel diameter = 356 mm is available on request⁽²⁾ H = in-tape height; P_0 = Sprocket hole distance; for detailed specifications refer to "Packaging Information"⁽³⁾ Weight for short lead product only $U_{RDC} = 630 \text{ V}$; $U_{RAC} = 250 \text{ V}$

C (μ F)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 372 XYYYY AND PACKAGING							C-VALUE
			LOOSE IN BOX		REEL ⁽¹⁾⁽²⁾		AMMOPACK ⁽²⁾			
			l _t = 4.0 mm + 1.0 mm/- 0.5 mm		H = 18.5 mm; P ₀ = 12.7 mm		H = 18.5 mm; P ₀ = 12.7 mm			
			C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %		
			XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)		
Pitch = 10.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm										
0.01 0.012 0.015 0.018 0.022	4.0 x 10.0 x 12.5	0.65	61... (1000)	62... (1000)	65... (1400)	66... (1400)	68... (750)	69... (750)	103 123 153 183 223	
0.027 0.033	5.0 x 11.0 x 12.5	0.87	61... (1000)	62... (1000)	65... (1100)	66... (1100)	68... (600)	69... (600)	273 333	
0.039 0.047	6.0 x 12.0 x 12.5	1.15	61... (750)	62... (750)	65... (900)	66... (900)	68... (500)	69... (500)	393 473	

Notes

• SPQ = Standard Packing Quantity

⁽¹⁾ Reel diameter = 356 mm is available on request⁽²⁾ H = in-tape height; P_0 = Sprocket hole distance; for detailed specifications refer to "Packaging Information"⁽³⁾ Weight for short lead product only

**COMPOSITION OF CATALOG NUMBER: 373**

TYPE AND PITCHES		CAPACITANCE (numerically)		MULTIPLIER (nF)		
373	15.0 mm			0.1	2	
	22.5 mm			1	3	
	27.5 mm			10	4	
				100	5	
		Example: 104 = 10 x 10 = 100 nF				
		BFC2	373	XX	YY	Y
		2222 (*)	373	XX	YY	Y
		(*) Old ordering number				

TYPE	PACKAGING	LEAD CONFIGURATION	PREFERRED TYPES				
			C-TOL.	100 V	250 V	400 V	630 V
373 compact	Loose in box	Lead length 5.0 mm ± 1.0 mm	± 10 %	23	43	53	63
	Taped on reel (1)	H (1) = 18.5 mm P ₀ = 12.7 mm Reel diameter = 356 mm	± 5 %	24	44	54	64
			± 10 %	27	47	57	67
373 standard	Loose in box	Lead length 5.0 mm ± 1.0 mm	± 10 %	21	41	51	-
			± 5 %	22	42	52	
	Taped on reel (1)	H (1) = 18.5 mm P ₀ = 12.7 mm Reel diameter = 356 mm	± 10 %	25	45	55	
			± 5 %	26	46	56	

Note(1) For detailed tape specifications refer to packaging information: www.vishay.com/doc?28139**SPECIFIC REFERENCE DATA**

DESCRIPTION	VALUE			
Tangent of loss angle:	at 1 kHz	at 10 kHz		at 100 kHz
C ≤ 0.1 μF	≤ 75 x 10 ⁻⁴	≤ 130 x 10 ⁻⁴		≤ 250 x 10 ⁻⁴
0.1 μF < C ≤ 0.47 μF	≤ 75 x 10 ⁻⁴	≤ 130 x 10 ⁻⁴		≤ 300 x 10 ⁻⁴
0.47 μF < C ≤ 1.0 μF	≤ 75 x 10 ⁻⁴	≤ 130 x 10 ⁻⁴		-
1.0 μF < C ≤ 10 μF	≤ 75 x 10 ⁻⁴	≤ 150 x 10 ⁻⁴		-
C > 10 μF	≤ 75 x 10 ⁻⁴	-		-
Rated voltage pulse slope (dU/dt) _R at	100 V _{DC}	250 V _{DC}	400 V _{DC}	630 V _{DC}
P = 15 mm	14 V/μs	16 V/μs	34 V/μs	90 V/μs
P = 22.5 mm	5 V/μs	7 V/μs	14 V/μs	35 V/μs
P = 27.5 mm	4 V/μs	6 V/μs	12 V/μs	30 V/μs
R between leads, for C ≤ 0.33 μF				
at 100 V; 1 min	> 15 000 MΩ	> 15 000 MΩ	> 30 000 MΩ	
at 500 V; 1 min				> 30 000 MΩ
RC between leads, for C > 0.33 μF				
at 100 V; 1 min	> 5000 s	> 10 000 s	> 10 000 s	
at 500 V; 1 min				> 10 000 s
R between interconnecting leads and case (foil method)	> 30 000 MΩ			
Withstanding (DC) voltage (cut off current 10 mA) ⁽¹⁾ ; rise time ≤ 1000 V/s	160 V; 1 min	400 V; 1 min	640 V; 1 min	1008 V; 1 min
Withstanding (DC) voltage between leads and case	200 V; 1 min	500 V; 1 min	800 V; 1 min	1260 V; 1 min
Maximum application temperature	105 °C			

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

$U_{RDC} = 100 \text{ V}$; $U_{RAC} = 63 \text{ V}$ (compact size)

C (μF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 373 XYYYY AND PACKAGING					C-VALUE
			LOOSE IN BOX		REEL ⁽¹⁾⁽²⁾			
			l _t = 5.0 mm ± 1.0 mm		H = 18.5 mm; P ₀ = 12.7 mm			
			C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %		
			XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)		
Pitch = 15.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm								
0.33 0.39 0.47 0.56 0.68 0.82 1 1.2 1.5 1.8	5.0 x 11.0 x 17.5	1.1	23... (1000)	24... (1000)	27... (1100)	28... (1100)	334 394 474 564 684 824 105 125 155 185	
2.2	6.0 x 12.0 x 17.5	1.5	23... (1000)	24... (1000)	27... (900)	28... (900)	225	
Pitch = 15.0 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm								
2.7 3.3	7.0 x 13.5 x 17.5	2.0	23... (1000)	24... (1000)	27... (800)	28... (800)	275 335	
3.9 4.7	8.5 x 15.0 x 17.5	2.7	23... (1000)	24... (1000)	27... (650)	28... (650)	395 475	

Notes

• SPQ = Standard Packing Quantity

⁽¹⁾ Reel diameter = 356 mm is available on request⁽²⁾ H = in-tape height; P_0 = Sprocket hole distance; for detailed specifications refer to "Packaging Information"⁽³⁾ Weight for short lead products only $U_{RDC} = 250 \text{ V}$; $U_{RAC} = 160 \text{ V}$ (compact size)

C (μF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 373 XYYYY AND PACKAGING					C-VALUE
			LOOSE IN BOX		REEL ⁽¹⁾⁽²⁾		..YYY	
			l _t = 5.0 mm ± 1.0 mm		H = 18.5 mm; P ₀ = 12.7 mm			
			C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %		
			XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)		
Pitch = 15.0 mm ± 0.40 mm; d _t = 0.60 mm ± 0.06 mm								
0.15 0.18 0.22 0.27 0.32	5.0 x 11.0 x 17.5	1.1	43... (1000)	44... (1000)	47... (1100)	48... (1100)	154 184 224 274 334	
0.39 0.47	6.0 x 12.0 x 17.5	1.5	43... (1000)	44... (1000)	47... (900)	48... (900)	394 474	
Pitch = 15.0 mm ± 0.40 mm; d _t = 0.80 mm ± 0.08 mm								
0.56 0.68	7.0 x 13.5 x 17.5	2.0	43... (1000)	44... (1000)	47... (800)	48... (800)	564 684	
0.82 1.0	8.5 x 15.0 x 17.5	2.7	43... (1000)	44... (1000)	47... (650)	48... (650)	824 105	
1.2	10.0 x 16.5 x 17.5	3.5	43... (500)	44... (500)	47... (600)	48... (600)	125	
Pitch = 22.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm								
1.5 1.8	8.5 x 18.0 x 26.0	4.5	43... (200)	44... (200)	47... (450)	48... (450)	155 185	
2.2 2.7	10.0 x 19.5 x 26.0	5.7	43... (200)	44... (200)	47... (350)	48... (350)	225 275	



MKT371, MKT372, MKT373

DC Film Capacitors
MKT Radial Potted Type

Vishay BCcomponents

C (μ F)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽¹⁾	CATALOG NUMBER BFC2 373 XXYYY AND PACKAGING					
			LOOSE IN BOX			REEL ⁽¹⁾⁽²⁾		C-VALUE
			l _t = 5.0 mm $\pm$ 1.0 mm			H = 18.5 mm; P ₀ = 12.7 mm		
			C-tol. = $\pm$ 10 %	C-tol. = $\pm$ 5 %	C-tol. = $\pm$ 10 %	C-tol. = $\pm$ 5 %		
			XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	..YYY	
Pitch = 27.5 mm $\pm$ 0.4 mm; d _t = 0.80 mm $\pm$ 0.08 mm								
3.3	11.0 x 21.0 x 31.0	8.2	43... (100)	44... (100)	-	-	335	
3.9 4.7	13.0 x 23.0 x 31.0	10.2	43... (100)	44... (100)	-	-	395 475	

Notes

• SPQ = Standard Packing Quantity

⁽¹⁾ Reel diameter = 356 mm is available on request

⁽²⁾ H = in-tape height; P_0 = Sprocket hole distance; for detailed specifications refer to "Packaging Information"

⁽³⁾ Weight for short lead product only

$U_{RDC} = 400 \text{ V}; U_{RAC} = 220 \text{ V}$ (compact size)

C (μF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 373 XXYYY AND PACKAGING					C-VALUE
			LOOSE IN BOX		REEL ⁽¹⁾⁽²⁾		..YYY	
			l _t = 5.0 mm ± 1.0 mm		H = 18.5 mm; P ₀ = 12.7 mm			
			C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %		
			XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)		
Pitch = 15.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm								
0.047 0.056 0.068 0.082 0.1 0.12 0.15	5.0 x 11.0 x 17.5	1.1	53... (1000)	54... (1000)	57... (1100)	58... (1100)	473 563 683 823 104 124 154	
0.18 0.22	6.0 x 12.0 x 17.5	1.5	53... (1000)	54... (1000)	57... (900)	58... (900)	184 224	
Pitch = 15.0 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm								
0.27 0.33	7.0 x 13.5 x 17.5	2.0	53... (1000)	54... (1000)	57... (800)	58... (800)	274 334	
0.39 0.47	8.5 x 15.0 x 17.5	2.7	53... (1000)	54... (1000)	57... (650)	58... (650)	394 474	
0.56	10.0 x 16.5 x 17.5	3.5	53... (500)	54... (500)	57... (600)	58... (600)	564	
Pitch = 22.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm								
0.68 0.82	8.5 x 18.0 x 26.0	4.5	53... (200)	54... (200)	57... (450)	58... (450)	684 824	
1 1.2	10.0 x 19.5 x 26.0	5.7	53... (200)	54... (200)	57... (350)	58... (350)	105 125	
Pitch = 27.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm								
1.5	11.0 x 21.0 x 31.0	8.2	53... (100)	54... (100)	-	-	155	
1.8 2.2	13.0 x 23.0 x 31.0	10.2	53... (100)	54... (100)	-	-	185 225	

Notes

• SPQ = Standard Packing Quantity

⁽¹⁾ Reel diameter = 356 mm is available on request

⁽²⁾ H = in-tape height; P_0 = Sprocket hole distance; for detailed specifications refer to "Packaging Information"

⁽³⁾ Weight for short lead product only

U_{RDC} = 630 V; U_{RAC} = 250 V (compact size)

C (μF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 373 XXYYY AND PACKAGING				
			LOOSE IN BOX		REEL ⁽¹⁾⁽²⁾		C-VALUE
			l _t = 5.0 mm ± 1.0 mm		H = 18.5 mm; P ₀ = 12.7 mm		
			C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %	
			XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	
Pitch = 15.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm							
0.047 0.056	5.0 x 11.0 x 17.5	1.1	63... (1000)	64... (1000)	67... (1100)	68... (1100)	473 563
0.068 0.082	6.0 x 12.0 x 17.5	1.5	63... (1000)	64... (1000)	67... (900)	68... (900)	683 823
Pitch = 15.0 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm							
0.1 0.12	7.0 x 13.5 x 17.5	2.0	63... (1000)	64... (1000)	67... (800)	68... (800)	104 124
0.15 0.18	8.5 x 15.0 x 17.5	2.7	63... (1000)	64... (1000)	67... (650)	68... (650)	154 184
0.22	10.0 x 16.5 x 17.5	3.5	63... (500)	64... (500)	67... (600)	68... (600)	224
Pitch = 22.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm							
0.27 0.33	8.5 x 18.0 x 26.0	4.5	63... (200)	64... (200)	67... (450)	68... (450)	274 334
0.39 0.47	10.0 x 19.5 x 26.0	5.7	63... (200)	64... (200)	67... (350)	68... (350)	394 474
Pitch = 27.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm							
0.56	11.0 x 21.0 x 31.0	8.2	63... (100)	64... (100)	-	-	564
0.68 0.82	13.0 x 23.0 x 31.0	10.2	63... (100)	64... (100)			684 824
1.00	15.0 x 25.0 x 31.5	13.4	63... (100)	64... (100)			105

Notes

• SPQ = Standard Packing Quantity

⁽¹⁾ Reel diameter = 356 mm is available on request⁽²⁾ H = in-tape height; P₀ = Sprocket hole distance; for detailed specifications refer to "Packaging Information"⁽³⁾ Weight for short lead product only

 $U_{RDC} = 100\text{ V}$; $U_{RAC} = 63\text{ V}$ (standard size)

C (μF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 373 XYYYY AND PACKAGING					C-VALUE
			LOOSE IN BOX		REEL ⁽¹⁾⁽²⁾		..YYY	
			l _t = 5.0 mm ± 1.0 mm		H = 18.5 mm; P ₀ = 12.7 mm			
			C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %		
			XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)		
Pitch = 15.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm								
0.33 0.39 0.47 0.56 0.68	5.0 x 11.0 x 17.5	1.1	21... (1000)	22... (1000)	25... (1100)	26... (1100)	334 394 474 565 684	
0.82 1	6.0 x 12.0 x 17.5	1.5	21... (1000)	22... (1000)	25... (900)	26... (900)	824 105	
Pitch = 15.0 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm								
1.2 1.5	7.0 x 13.5 x 17.5	2.0	21... (1000)	22... (1000)	25... (800)	26... (800)	125 155	
1.8 2.2	8.5 x 15.0 x 17.5	2.7	21... (1000)	22... (1000)	25... (650)	26... (650)	185 225	
Pitch = 22.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm								
2.7 3.3	8.5 x 18.0 x 26.0	4.5	21... (200)	22... (200)	25... (450)	26... (450)	275 335	
3.9 4.7	10.0 x 19.5 x 26.0	5.7	21... (200)	22... (200)	25... (350)	26... (350)	395 475	
Pitch = 27.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm								
5.6 6.8	11.0 x 21.0 x 31.0	8.2	21... (100)	22... (100)	-	-	565 685	
8.2 10	13.0 x 23.0 x 31.0	10.2	21... (100)	22... (100)			825 106	
12 15	18.0 x 28.0 x 31.5	18.4	21... (100)	22... (100)			126 156	

Notes

• SPQ = Standard Packing Quantity

⁽¹⁾ Reel diameter = 356 mm is available on request⁽²⁾ H = in-tape height; P_0 = Sprocket hole distance; for detailed specifications refer to "Packaging Information"⁽³⁾ Weight for short lead product only**Available on request**

C (μ F)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 373 XYYYY AND PACKAGING					
			LOOSE IN BOX			REEL ⁽¹⁾⁽²⁾		
			l _t = 5.0 mm $\pm$ 1.0 mm			H = 18.5 mm		
			C-tol. = $\pm$ 10 %	C-tol. = $\pm$ 5 %	SPQ	C-tol. = $\pm$ 10 %	C-tol. = $\pm$ 5 %	SPQ
Pitch = 22.5 mm $\pm$ 0.4 mm; d _t = 0.80 mm $\pm$ 0.08 mm								
1.5	6.0 x 15.5 x 26.0	2.7	90012	90013	300	90018	90019	600
1.8 2.2	7.0 x 16.5 x 26.0	3.3	90022 90002	90023 90003	200	90028 90008	90029 90009	550
Pitch = 27.5 mm $\pm$ 0.4 mm; d _t = 0.80 mm $\pm$ 0.08 mm								
4.7	9.0 x 19.0 x 31.0	6.1	90032	90033	100	-		

Notes

• SPQ = Standard Packing Quantity

⁽¹⁾ Reel diameter = 356 mm is available on request⁽²⁾ H = in-tape height; P_0 = Sprocket hole distance; for detailed specifications refer to "Packaging Information"⁽³⁾ Weight for short lead product only

$U_{RDC} = 250 \text{ V}$; $U_{RAC} = 160 \text{ V}$ (standard size)

C (μF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 373 XYYYY AND PACKAGING					C-VALUE
			LOOSE IN BOX		REEL ⁽¹⁾⁽²⁾			
			l _t = 5.0 mm ± 1.0 mm		H = 18.5 mm; P ₀ = 12.7 mm			
			C-tol. = ± 10 %	C-tol. = ± 5 %	C-tol. = ± 10 %	C-tol. = ± 5 %		
			XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)	..YYY	
Pitch = 15.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm								
0.15 0.18 0.22	5.0 x 11.0 x 17.5	1.1	41... (1000)	42... (1000)	45... (1100)	46... (1100)	154 184 224	
0.27 0.33 0.39 0.47	6.0 x 12.0 x 17.5	1.5	41... (1000)	42... (1000)	45... (900)	46... (900)	274 334 394 474	
Pitch = 15.0 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm								
0.56 0.68	7.0 x 13.5 x 17.5	2.0	41... (1000)	42... (1000)	45... (800)	46... (800)	564 684	
0.82 1	8.5 x 15.0 x 17.5	2.7	41... (1000)	42... (1000)	45... (650)	46... (650)	824 105	
Pitch = 22.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm								
1.2 1.5	8.5 x 18.0 x 26.0	4.5	41... (200)	42... (200)	45... (450)	46... (450)	125 155	
1.8 2.2	10.0 x 19.5 x 26.0	5.7	41... (200)	42... (200)	45... (350)	46... (350)	185 225	
Pitch = 27.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm								
2.7 3.3	13.0 x 23.0 x 31.0	10.2	41... (100)	42... (100)	-	-	275 335	
3.9 4.7	15.0 x 28.0 x 31.5	13.4	41... (100)	42... (100)			395 475	

Notes

• SPQ = Standard Packing Quantity

⁽¹⁾ Reel diameter = 356 mm is available on request⁽²⁾ H = in-tape height; P_0 = Sprocket hole distance; for detailed specifications refer to "Packaging Information"⁽³⁾ Weight for short lead product only**Available on request**

C (μ F)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 373 XYYYY AND PACKAGING					
			LOOSE IN BOX			REEL ⁽¹⁾⁽²⁾		
			l _t = 5.0 mm $\pm$ 1.0 mm			H = 18.5 mm		
			C-tol. = $\pm$ 10 %	C-tol. = $\pm$ 5 %	SPQ	C-tol. = $\pm$ 10 %	C-tol. = $\pm$ 5 %	SPQ
Pitch = 22.5 mm $\pm$ 0.4 mm; d _t = 0.80 mm $\pm$ 0.08 mm								
0.47 0.56 0.67	6.0 x 15.5 x 26.0	2.7	90042 90052 90062	90046 90053 90063	300	90048 90058 90068	90049 90059 90069	600
0.85 1	7.0 x 16.5 x 26.0	3.3	90072 90082	90073 90083	200	90078 90088	90079 90089	550
Pitch = 27.5 mm $\pm$ 0.4 mm; d _t = 0.80 mm $\pm$ 0.08 mm								
1.2 1.5	9.0 x 19.0 x 31.5	6.1	90172 90092	90173 90093	100	-		
1.8 2.2	9.0 x 21.0 x 31.0	8.2	90102 90112	90103 90113	100			

Notes

• SPQ = Standard Packing Quantity

⁽¹⁾ Reel diameter = 356 mm is available on request⁽²⁾ H = in-tape height; P_0 = Sprocket hole distance; for detailed specifications refer to "Packaging Information"⁽³⁾ Weight for short lead product only



MKT371, MKT372, MKT373

DC Film Capacitors
MKT Radial Potted Type

Vishay BCcomponents

$U_{RDC} = 400\text{ V}$; $U_{RAC} = 220\text{ V}$ (standard size)

C (μ F)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 373 XYYYY AND PACKAGING					C-VALUE ..YYY
			LOOSE IN BOX		REEL ⁽¹⁾⁽²⁾			
			$l_t = 5.0\text{ mm} \pm 1.0\text{ mm}$		$H = 18.5\text{ mm};$ $P_0 = 12.7\text{ mm}$			
			C-tol. = $\pm 10\%$	C-tol. = $\pm 5\%$	C-tol. = $\pm 10\%$	C-tol. = $\pm 5\%$		
			XX (SPQ)	XX (SPQ)	XX (SPQ)	XX (SPQ)		
Pitch = 15.0 mm $\pm$ 0.4 mm; d_t = 0.60 mm $\pm$ 0.06 mm								
0.047 0.056 0.068 0.082 0.1	5.0 x 11.0 x 17.5	1.1	51... (1000)	52... (1000)	55... (1100)	56... (1100)	473 563 683 823 104	
0.12 0.15	6.0 x 12.0 x 17.5	1.5	51... (1000)	52... (1000)	55... (900)	56... (900)	124 154	
Pitch = 15.0 mm $\pm$ 0.4 mm; d_t = 0.80 mm $\pm$ 0.08 mm								
0.18 0.22	7.0 x 13.5 x 17.5	2.0	51... (1000)	52... (1000)	55... (800)	56... (800)	184 224	
0.27 0.33	8.5 x 15.0 x 17.5	2.7	51... (1000)	52... (1000)	55... (650)	56... (650)	274 334	
Pitch = 22.5 mm $\pm$ 0.4 mm; d_t = 0.80 mm $\pm$ 0.08 mm								
0.39 0.47	8.5 x 18.0 x 26.0	4.5	51... (200)	52... (200)	55... (450)	56... (450)	394 474	
0.56 0.68	10.0 x 19.5 x 26.0	5.7	51... (200)	52... (200)	55... (350)	56... (350)	564 684	
Pitch = 27.5 mm $\pm$ 0.4 mm; d_t = 0.80 mm $\pm$ 0.08 mm								
0.82 1	13.0 x 23.0 x 31.0	10.2	51... (100)	52... (100)	-	-	824 105	
1.2 1.5	15.0 x 25.0 x 31.5	13.4	51... (100)	52... (100)			125 155	

Notes

• SPQ = Standard Packing Quantity

⁽¹⁾ Reel diameter = 356 mm is available on request

⁽²⁾ H = in-tape height; P_0 = Sprocket hole distance; for detailed specifications refer to "Packaging Information"

⁽³⁾ Weight for short lead product only

Available on request

C (μF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 373 XYYYY AND PACKAGING					
			LOOSE IN BOX			REEL ⁽¹⁾⁽²⁾		
			l _t = 5.0 mm ± 1.0 mm			H = 18.5 mm		
			C-tol. = ± 10 %	C-tol. = ± 5 %	SPQ	C-tol. = ± 10 %	C-tol. = ± 5 %	SPQ
Pitch = 22.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm								
0.22	6.0 x 15.5 x 26.0	2.7	90122	90123	300	90128	90129	600
0.27 0.33	7.0 x 16.5 x 26.0	3.3	90132 90142	90133 90143	200	90138 90148	90139 90149	550
Pitch = 27.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm								
0.68	9.0 x 19.0 x 31.5	6.1	90152	90153	100	-		

Notes

• SPQ = Standard Packing Quantity

⁽¹⁾ Reel diameter = 356 mm is available on request

⁽²⁾ H = in-tape height; P_0 = Sprocket hole distance; for detailed specifications refer to "Packaging Information"

⁽³⁾ Weight for short lead product only

MOUNTING

Normal Use

The capacitors are designed for mounting on printed-circuit boards. The capacitors packed in bandoliers are designed for mounting in printed-circuit boards by means of automatic insertion machines.

For detailed tape specifications refer to packaging information: www.vishay.com/doc?28139

Specific Method of Mounting to Withstand Vibration and Shock

In order to withstand vibration and shock tests, it must be ensured that stand-off pips are in good contact with the printed-circuit board:

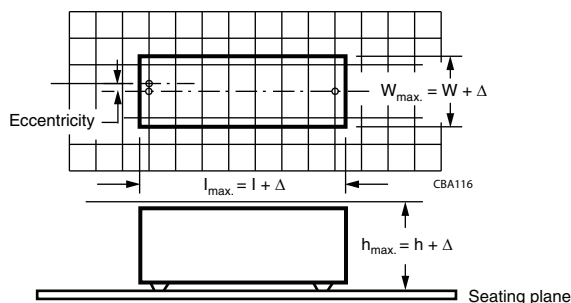
- For pitches ≤ 15 mm capacitors shall be mechanically fixed by the leads
- For larger pitches the capacitors shall be mounted in the same way and the body clamped

Space Requirements On Printed-Circuit Board

The maximum space for length ($l_{max.}$), width ($W_{max.}$) and height ($h_{max.}$) of film capacitors to take in account on the printed-circuit board is shown in the drawing:

- For products with pitch ≤ 15 mm, $\Delta w = \Delta l = 0.3$ mm and $\Delta h = 0.1$ mm
- For products with 15 mm $<$ pitch ≤ 27.5 mm, $\Delta w = \Delta l = 0.5$ mm and $\Delta h = 0.1$ mm

Eccentricity defined as in drawing. The maximum eccentricity is smaller than or equal to the lead diameter of the product concerned.



SOLDERING

For general soldering conditions and wave soldering profile, we refer to the application note:

“Soldering Guidelines for Film Capacitors”: www.vishay.com/doc?28171

Storage Temperature

- Storage temperature: $T_{stg} = -25$ °C to $+40$ °C with RH maximum 80 % without condensation

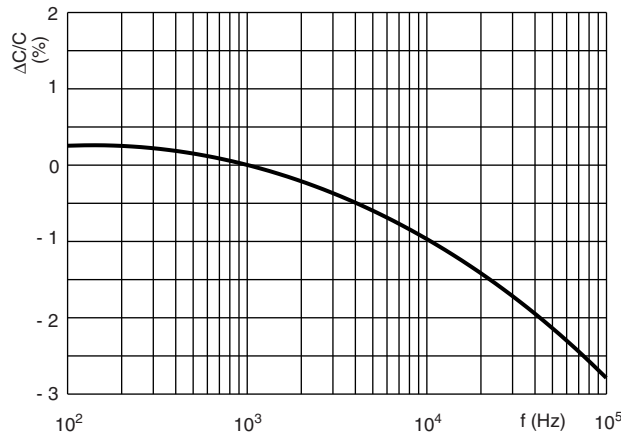
Ratings and Characteristics Reference Conditions

Unless otherwise specified, all electrical values apply to an ambient free air temperature of 23 °C ± 1 °C, an atmospheric pressure of 86 kPa to 106 kPa and a relative humidity of 50 % ± 2 %.

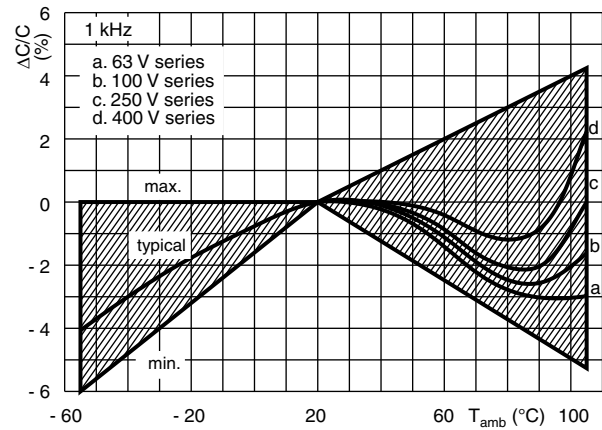
For reference testing, a conditioning period shall be applied over 96 h ± 4 h by heating the products in a circulating air oven at the rated temperature and a relative humidity not exceeding 20 %.

CHARACTERISTICS

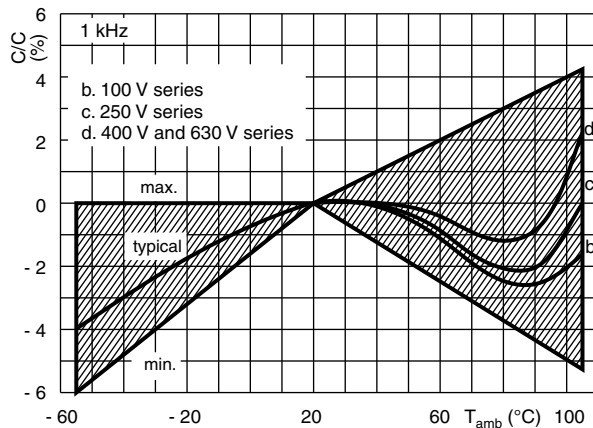
371, 372, 373 - Capacitance as a function of frequency



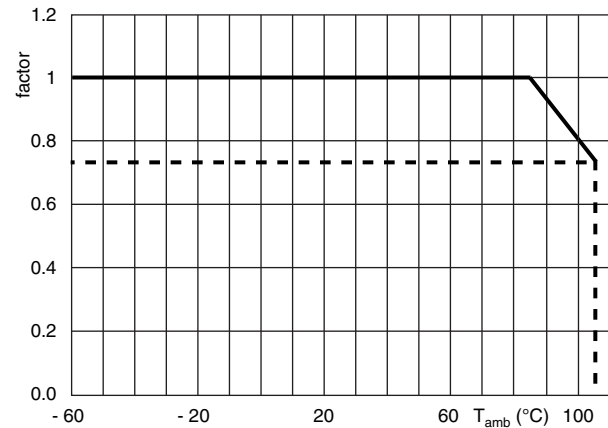
371 - Capacitance as a function of ambient temperature



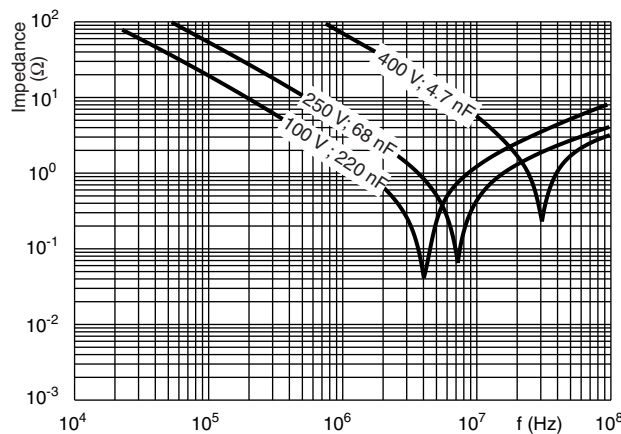
372, 373 - Capacitance as a function of ambient temperature



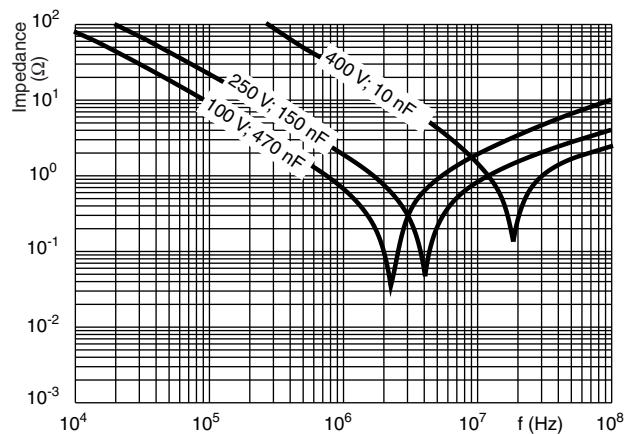
371, 372, 373 - Max. DC and AC Voltage as a function of temperature



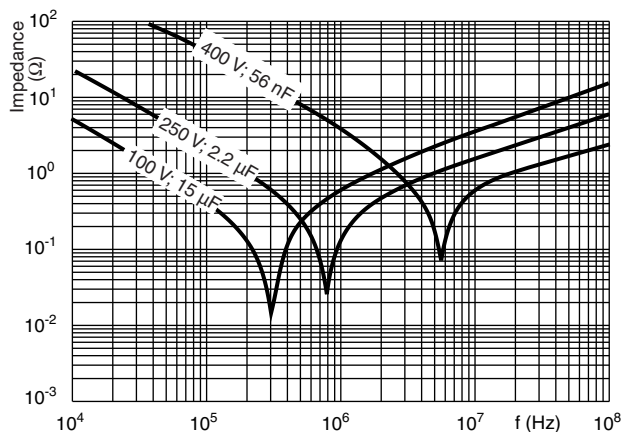
371 - Impedance as a function of frequency



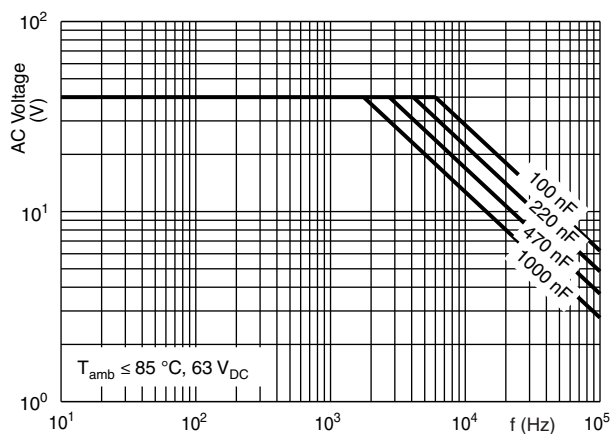
372 - Impedance as a function of frequency



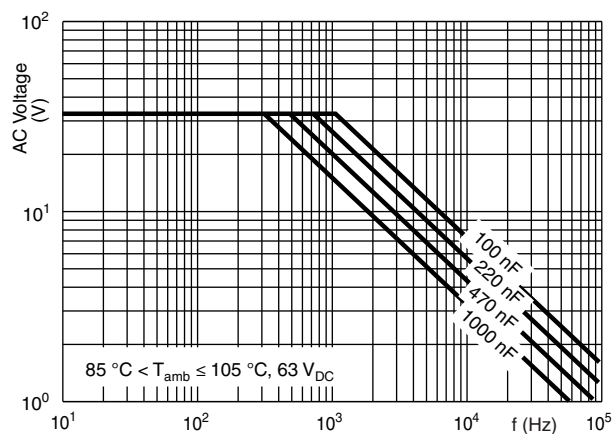
373 - Impedance as a function of frequency



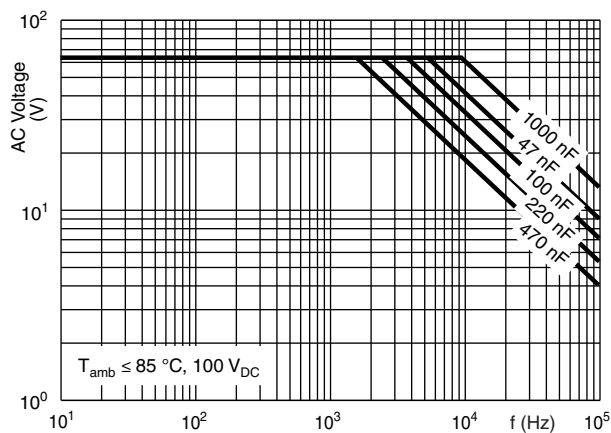
371 - Max. AC voltage as a function of frequency



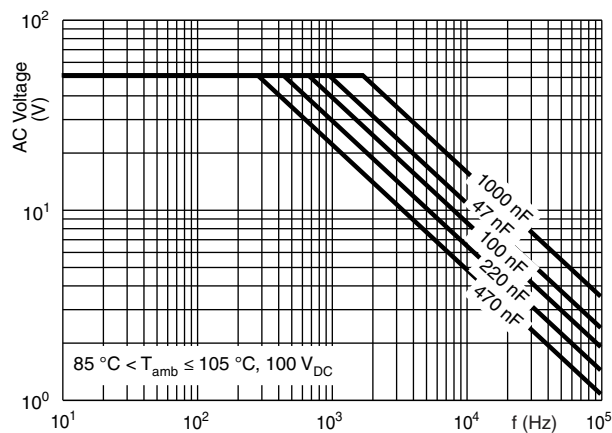
371 - Max. AC voltage as a function of frequency



371 - Max. AC voltage as a function of frequency

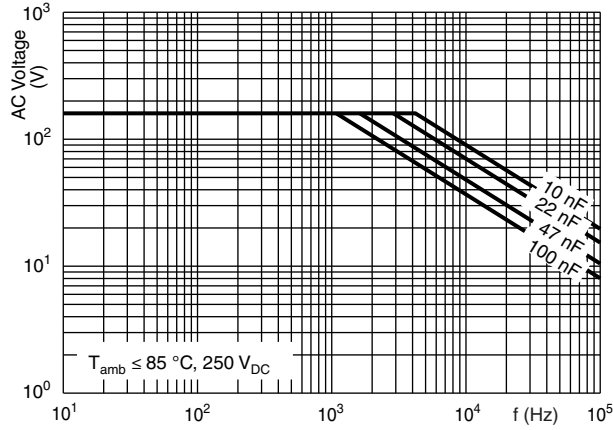


371 - Max. AC voltage as a function of frequency

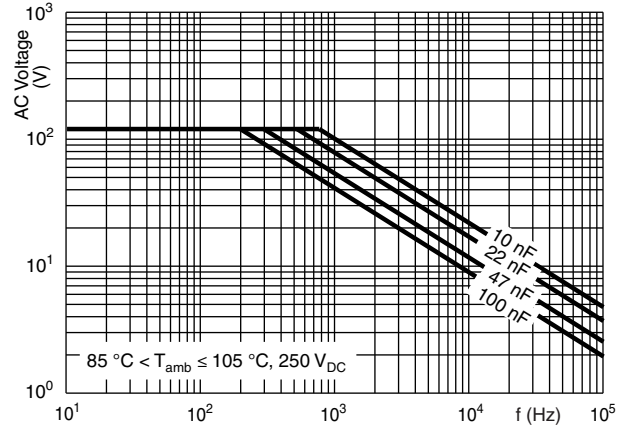




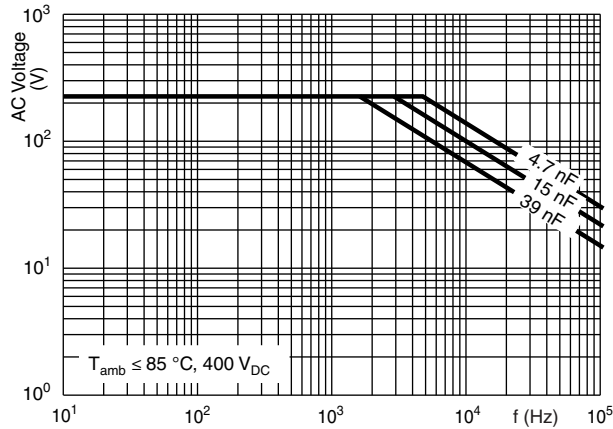
371 - Max. AC voltage as a function of frequency



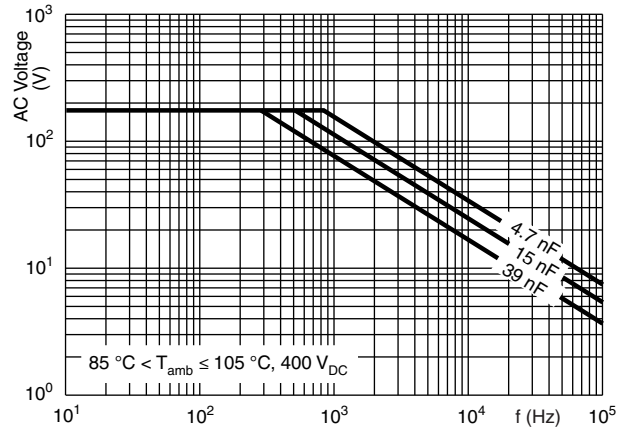
371 - Max. AC voltage as a function of frequency



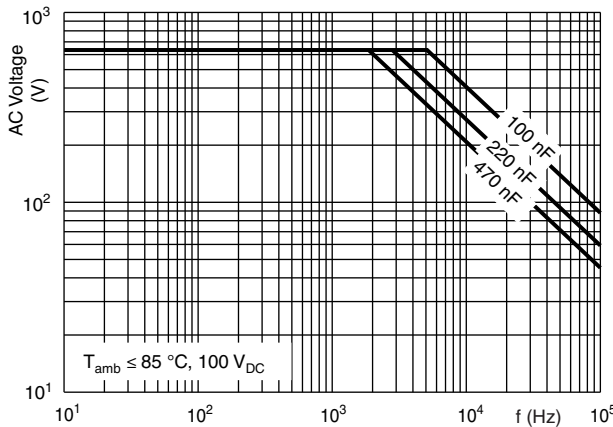
371 - Max. AC voltage as a function of frequency



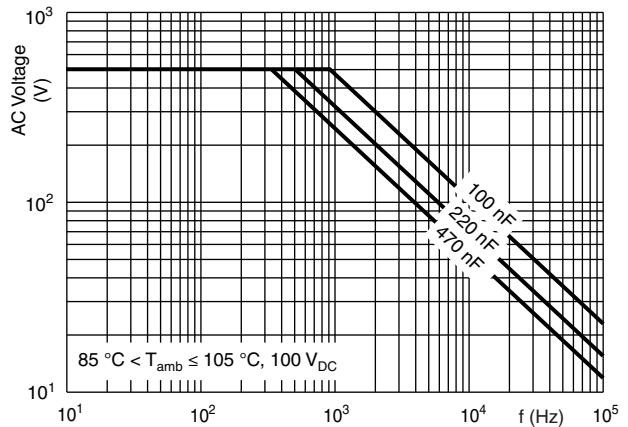
371 - Max. AC voltage as a function of frequency



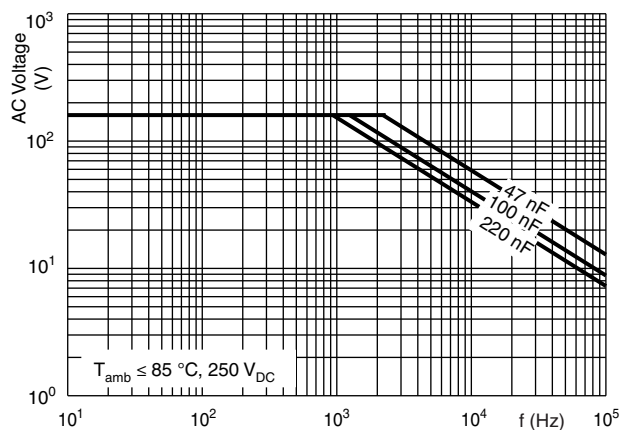
372 - Max. AC voltage as a function of frequency



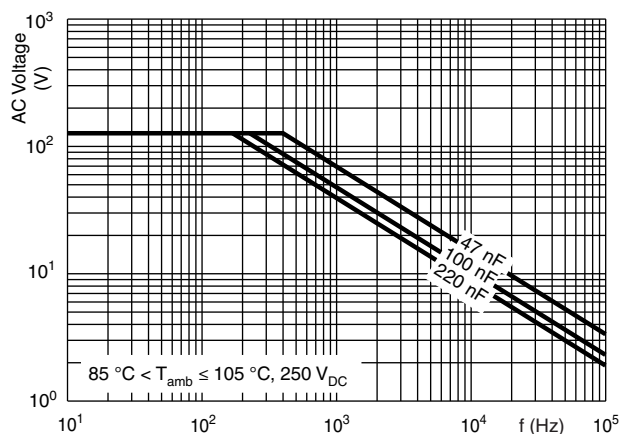
372 - Max. AC voltage as a function of frequency



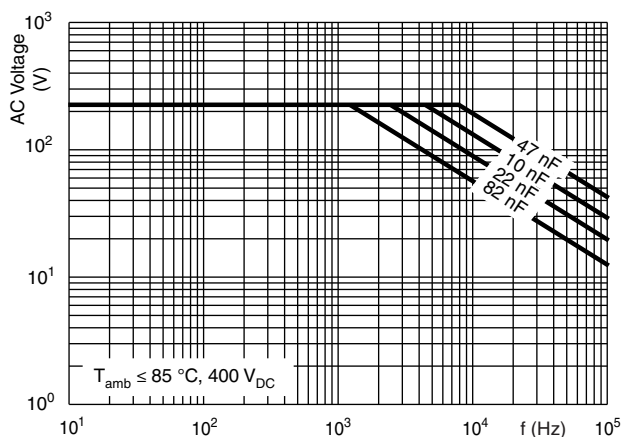
372 - Max. AC voltage as a function of frequency



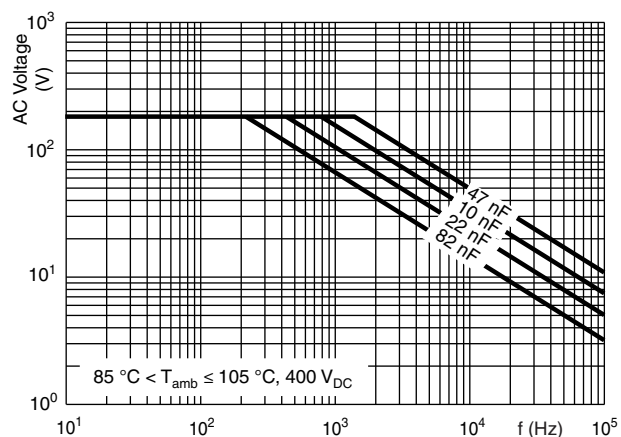
372 - AC voltage as a function of frequency



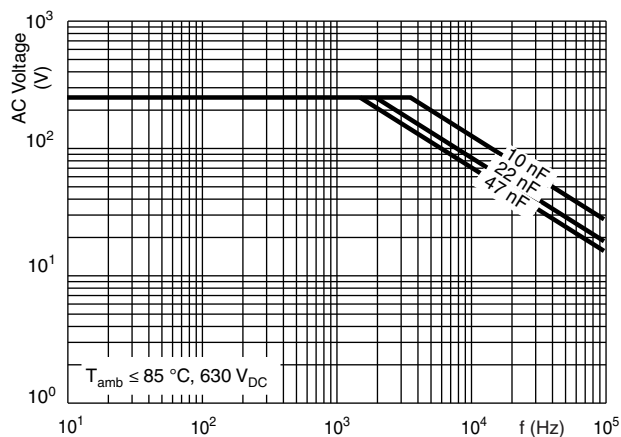
372 - AC voltage as a function of frequency



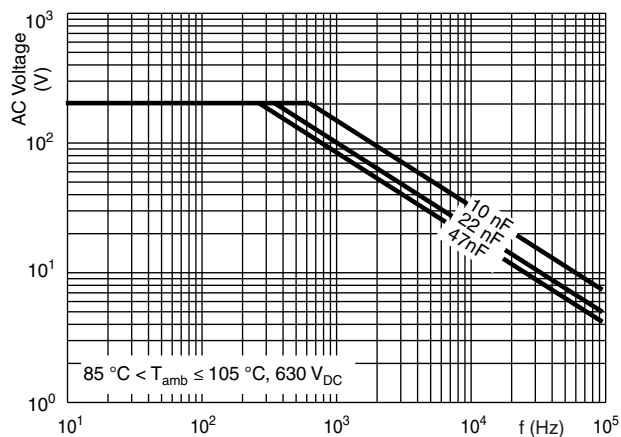
372 - AC voltage as a function of frequency



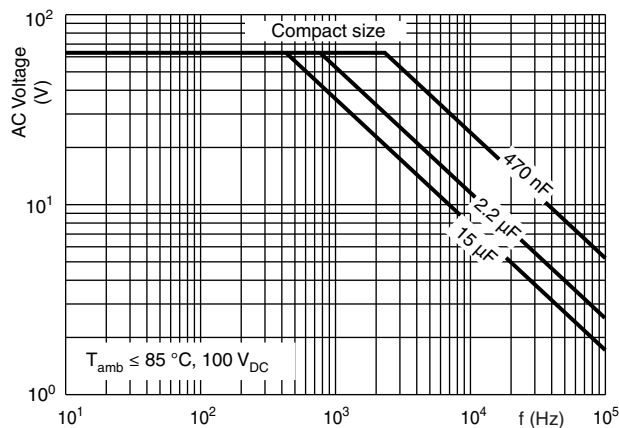
372 - AC voltage as a function of frequency



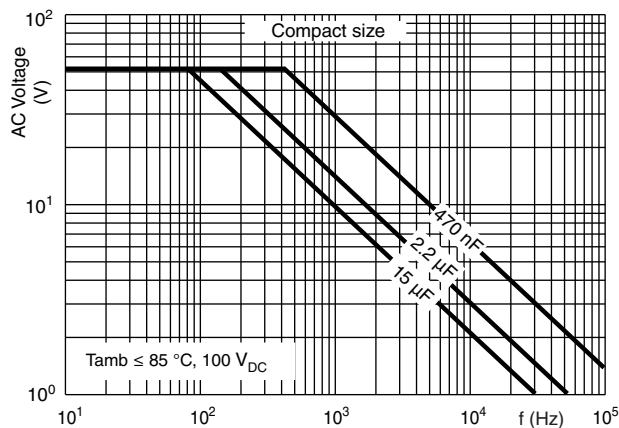
372 - AC voltage as a function of frequency



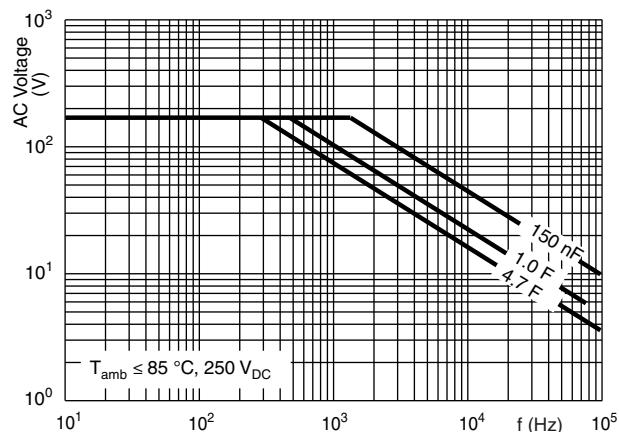
373 - Max. AC voltage as a function of frequency



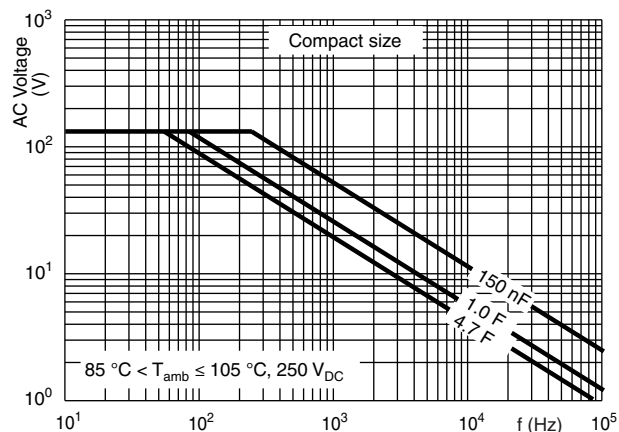
373 - Max. AC voltage as a function of frequency



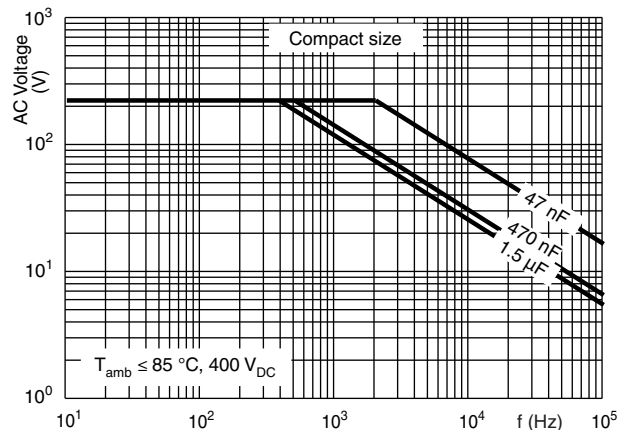
373 - Max. AC voltage as a function of frequency



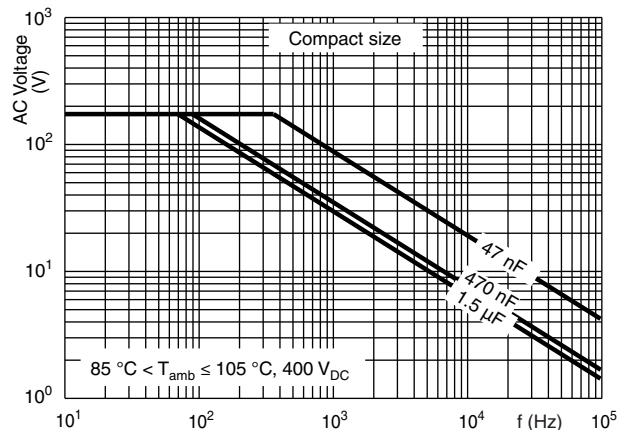
373 - Max. AC voltage as a function of frequency



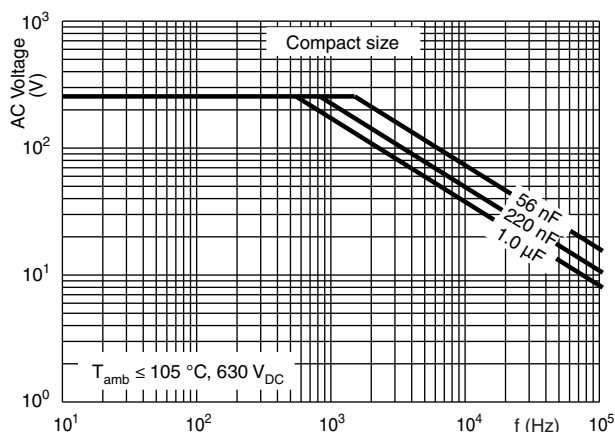
373 - Max. AC voltage as a function of frequency



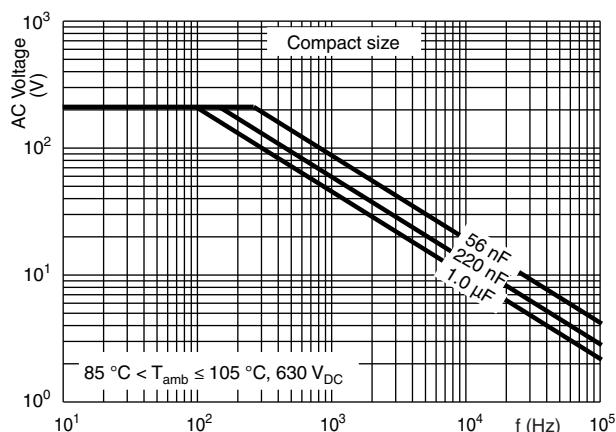
373 - Max. AC voltage as a function of frequency



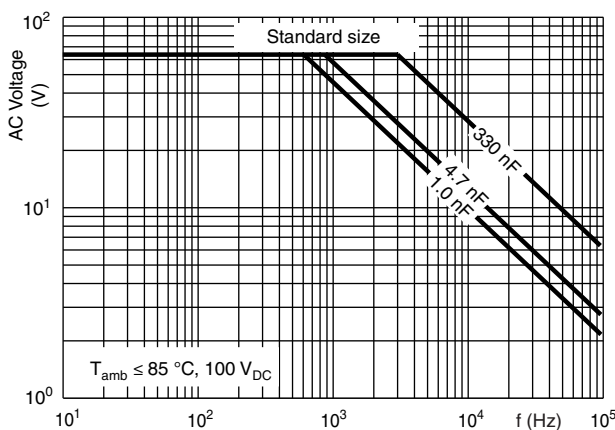
373 - Max. AC voltage as a function of frequency



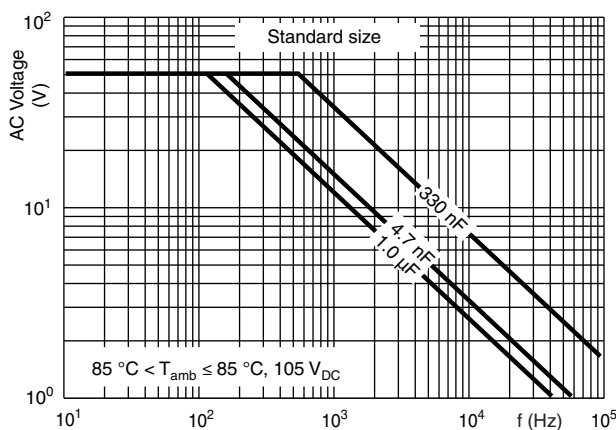
373 - Max. AC voltage as a function of frequency



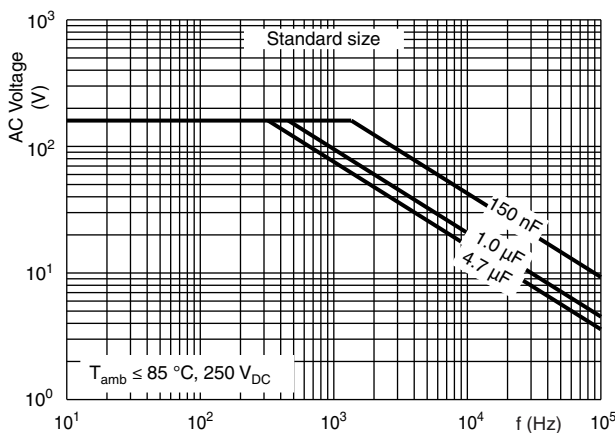
373 - Max. AC voltage as a function of frequency



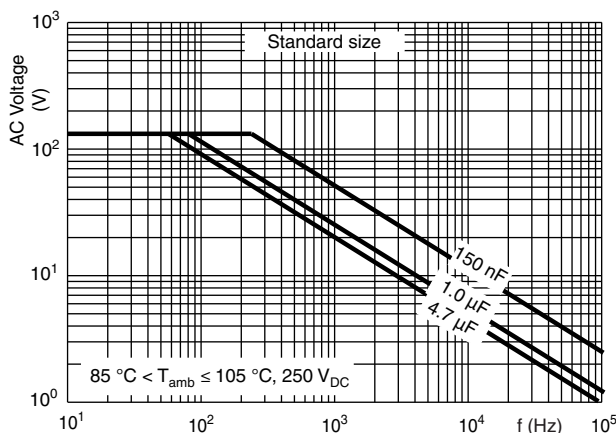
373 - Max. AC voltage as a function of frequency



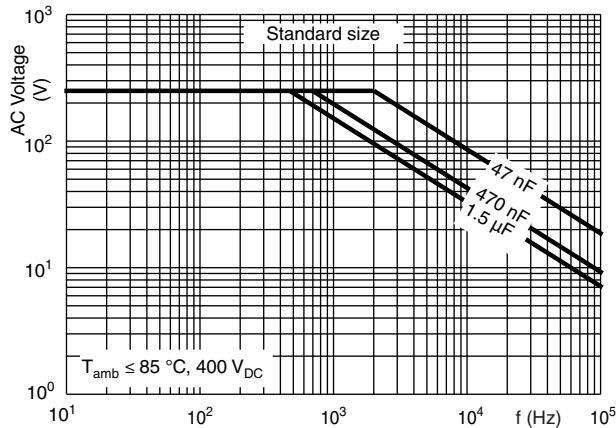
373 - Max. AC voltage as a function of frequency



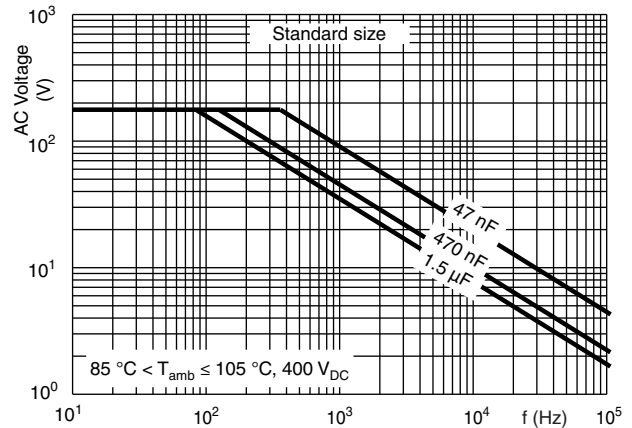
373 - Max. AC voltage as a function of frequency



373 - Max. AC voltage as a function of frequency



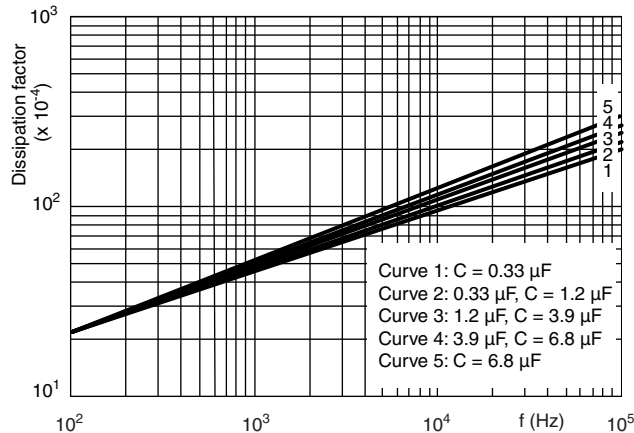
373 - Max. AC voltage as a function of frequency



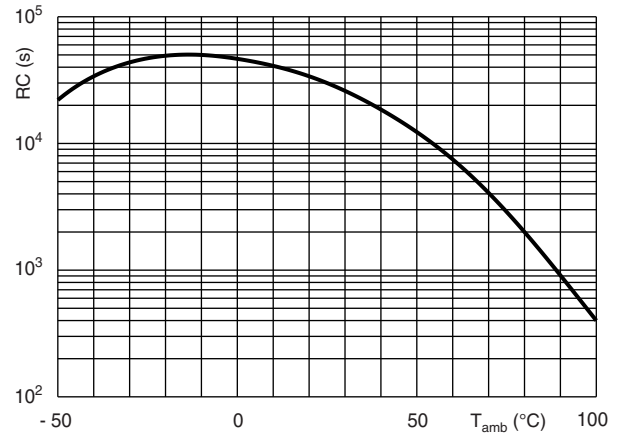
Maximum RMS current (sinewave) as a function of frequency

U_{AC} is the maximum AC voltage depending on the ambient temperature in the curves "Max. RMS voltage and AC current as a function of frequency".

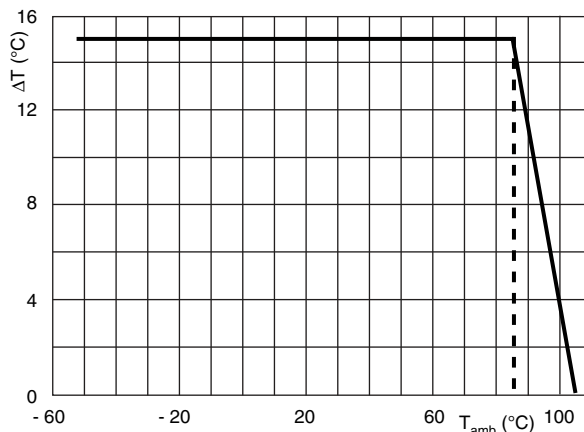
371, 372, 373 - Tangent of loss angle as a function of frequency



371, 372, 373 - Insulation resistance as a function of the ambient temperature (typical curve)



371, 372, 373 - Maximum allowed component temperature rise (ΔT) as a function of the ambient temperature T_{amb} (°C)



HEAT CONDUCTIVITY (G) AS A FUNCTION OF (ORIGINAL) PITCH AND CAPACITOR BODY THICKNESS IN mW/°C

W _{max.} (mm)	HEAT CONDUCTIVITY (mW/°C)				
	PITCH 7.62 mm	PITCH 10.0 mm	PITCH 15.0 mm	PITCH 22.5 mm	PITCH 27.5 mm
2.5	3	-	-	-	-
3.0	4	-	-	-	-
3.5	-	-	-	-	-
4.0	5	6.0	-	-	-
4.5	-	-	-	-	-
5.0	6	7.5	10	-	-
6.0	7	9.0	11	19	-
7.0	-	-	12	21	-
8.5	-	-	16	25	-
10.0	-	-	18	28	-
11.0	-	-	-	-	36
13.0	-	-	-	-	42
15.0	-	-	-	-	48
18.0	-	-	-	-	57

POWER DISSIPATION AND MAXIMUM COMPONENT TEMPERATURE RISE

The power dissipation must be limited in order not to exceed the maximum allowed component temperature rise as a function of the free ambient temperature.

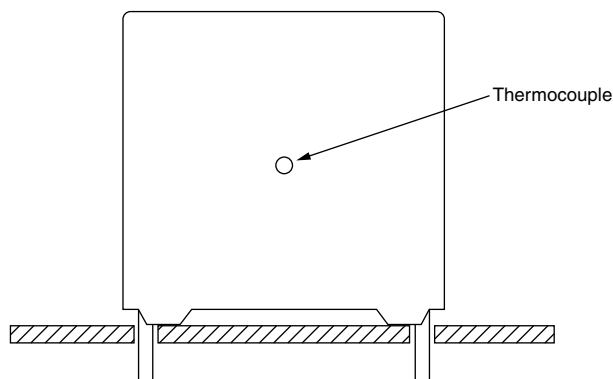
The power dissipation can be calculated according type detail specification "HQN-384-01/101: Technical Information Film Capacitors".

The component temperature rise (ΔT) can be measured (see section "Measuring the component temperature" for more details) or calculated by $\Delta T = P/G$:

- ΔT = Component temperature rise (°C)
- P = Power dissipation of the component (mW)
- G = Heat conductivity of the component (mW/°C)

MEASURING THE COMPONENT TEMPERATURE

A thermocouple must be attached to the capacitor body as in:



The temperature is measured in unloaded (T_{amb}) and maximum loaded condition (T_C).

The temperature rise is given by $\Delta T = T_C - T_{amb}$.

To avoid radiation or convection, the capacitor should be tested in a wind-free box.

APPLICATION NOTE AND LIMITING CONDITIONS

These capacitors are not suitable for mains applications as across-the-line capacitors without additional protection, as described hereunder. These mains applications are strictly regulated in safety standards and therefore electromagnetic interference suppression capacitors conforming the standards must be used.

For capacitors connected in parallel, normally the proof voltage and possibly the rated voltage must be reduced. For information depending of the capacitance value and the number of parallel connections contact: dc-film@vishay.com

To select the capacitor for a certain application, the following conditions must be checked:

1. The peak voltage (U_P) shall not be greater than the rated DC voltage (U_{RDC})
2. The peak-to-peak voltage (U_{P-P}) shall not be greater than $2\sqrt{2} \times U_{RAC}$ to avoid the ionisation inception level
3. The voltage peak slope (dU/dt) shall not exceed the rated voltage pulse slope in an RC-circuit at rated voltage and without ringing. If the pulse voltage is lower than the rated DC voltage, the rated voltage pulse slope may be multiplied by U_{Rdc} and divided by the applied voltage.

For all other pulses following equation must be fulfilled:

$$2 \times \int_0^T \left(\frac{dU}{dt} \right)^2 \times dt < U_{Rdc} \times \left(\frac{dU}{dt} \right)_{rated}$$

T is the pulse duration.

4. The maximum component surface temperature rise must be lower than the limits (see graph Max. Allowed Component Temperature Rise).
5. Since in circuits used at voltages over 280 V peak-to-peak the risk for an intrinsically active flammability after a capacitor breakdown (short circuit) increases, it is recommended that the power to the component is limited to 100 times the values mentioned in the table: "Heat Conductivity"
6. When using these capacitors as across-the-line capacitor in the input filter for mains applications or as series connected with an impedance to the mains the applicant must guarantee that the following conditions are fulfilled in any case (spikes and surge voltages from the mains included).

Voltage Conditions for 6 Above

ALLOWED VOLTAGES	$T_{amb} \leq 85^\circ C$	$85^\circ C < T_{amb} \leq 105^\circ C$
Maximum continuous RMS voltage	U_{RAC}	See "Max. AC Voltage as Function of Temperature" per characteristics
Maximum temperature RMS-overvoltage (< 24 h)	$1.25 \times U_{RAC}$	U_{RAC}
Maximum peak voltage (V_{O-P}) (< 2 s)	$1.6 \times U_{RDC}$	$1.3 \times U_{RDC}$

EXAMPLE

C = 330 nF - 63 V used for the voltage signal shown in next drawing.

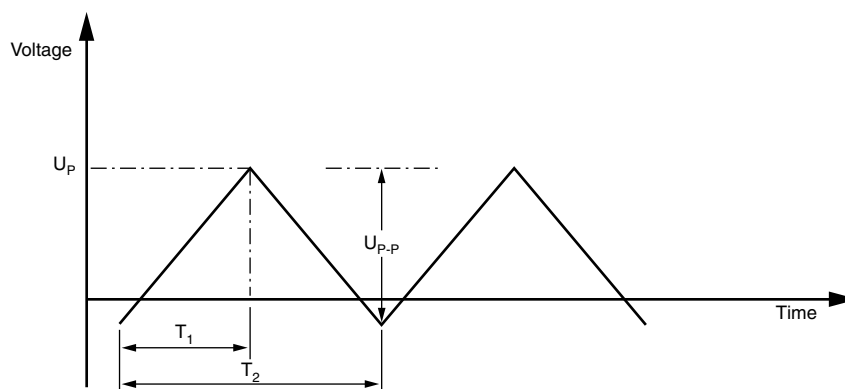
$U_{P-P} = 40$ V; $U_P = 35$ V; $T_1 = 100$ μ s; $T_2 = 200$ μ s

The ambient temperature is $35^\circ C$

Checking conditions:

1. The peak voltage $U_P = 35$ V is lower than $63 V_{DC}$
2. The peak-to-peak voltage 40 V is lower than $2\sqrt{2} \times 40 V_{AC} = 113 U_{P-P}$
3. The voltage pulse slope (dU/dt) = 40 V/ 100 μ s = 0.4 V/ μ s
This is lower than 60 V/ μ s (see specific reference data for each version)
4. The dissipated power is 16.2 mW as calculated with fourier terms
The temperature rise for $W_{max.} = 3.5$ mm and pitch = 5 mm will be 16.2 mW/ 3.0 mW/ $^\circ C = 5.4^\circ C$
This is lower than $15^\circ C$ temperature rise at $35^\circ C$, according figure max. allowed component temperature rise
5. Not applicable
6. Not applicable

Voltage Signal



INSPECTION REQUIREMENTS

General Notes:

1. Sub-clause numbers of tests and performance requirements refer to the "Sectional Specification, Publication IEC 60384-2 and Specific Reference Data".

Group C Inspection Requirements

SUB-CLAUSE NUMBER AND TEST	CONDITIONS	PERFORMANCE REQUIREMENTS
SUB-GROUP C1A PART OF SAMPLE OF SUB-GROUP C1		
4.1 Dimensions (detail)		As specified in chapters "General Data" of this specification
4.3.1 Initial measurements	Capacitance Tangent of loss angle: For $C \leq 470 \text{ nF}$ at 100 kHz for $470 \text{ nF} < C \leq 10 \text{ }\mu\text{F}$ at 10 kHz for $C > 10 \text{ }\mu\text{F}$ at 1 kHz	
4.3 Robustness of terminations	Tensile and bending	
4.4 Resistance to soldering heat	Method: 1A Solder bath: $280 \text{ }^\circ\text{C} \pm 5 \text{ }^\circ\text{C}$ Duration: 10 s	No visible damage
4.14 Component solvent resistance	Isopropylalcohol at room temperature Method: 2 Immersion time: $5 \text{ min} \pm 0.5 \text{ min}$ Recovery time: Min. 1 h, max. 2 h	
4.4.2 Final measurements	Visual examination Capacitance Tangent of loss angle	
		No visible damage Legible marking $ \Delta C/C \leq 2 \text{ \%}$ of the value measured initially Increase of $\tan \delta$ ≤ 0.005 for: $C \leq 100 \text{ nF}$ or ≤ 0.010 for: $100 \text{ nF} < C \leq 220 \text{ nF}$ or ≤ 0.015 for: $220 \text{ nF} < C \leq 470 \text{ nF}$ and ≤ 0.003 for: $C > 470 \text{ nF}$ Compared to values measured in 4.3.1



SUB-CLAUSE NUMBER AND TEST	CONDITIONS	PERFORMANCE REQUIREMENTS
SUB-GROUP C1B PART OF SAMPLE OF SUB-GROUP C1		
4.6.1 Initial measurements	Capacitance Tangent of loss angle: For $C \leq 470$ nF at 100 kHz for 470 nF $< C \leq 10$ μ F at 10 kHz for $C > 10$ μ F at 1 kHz	No visible damage
4.6 Rapid change of temperature	$\theta A = -55$ °C $\theta B = +105$ °C 5 cycles Duration $t = 30$ min	
4.7 Vibration	Visual examination Mounting: See section "Mounting" of this specification Procedure B4 Frequency range: 10 Hz to 55 Hz Amplitude: 0.75 mm or Acceleration 98 m/s ² (whichever is less severe) Total duration 6 h	No visible damage
4.7.2 Final inspection	Visual examination	No visible damage
4.9 Shock	Mounting: See section "Mounting" of this specification Pulse shape: Half sine Acceleration: 490 m/s ² Duration of pulse: 11 ms	
4.9.3 Final measurements	Visual examination Capacitance Tangent of loss angle Insulation resistance	No visible damage $ \Delta C/C \leq 3$ % of the value measured in 4.6.1 Increase of $\tan \delta$ ≤ 0.010 (370 and 371) ≤ 0.005 (372 and 373) for: $C \leq 100$ nF or ≤ 0.010 for: 100 nF $< C \leq 220$ nF or ≤ 0.015 for: 220 nF $< C \leq 470$ nF and ≤ 0.003 for: $C > 470$ nF Compared to values measured in 4.6.1 As specified in section "Insulation Resistance" of this specification
SUB-GROUP C1 COMBINED SAMPLE OF SPECIMENS OF SUB-GROUPS C1A AND C1B		
4.10 Climatic sequence		
4.10.2 Dry heat	Temperature: $+105$ °C Duration: 16 h	
4.10.3 Damp heat cyclic Test Db, first cycle		
4.10.4 Cold	Temperature: -55 °C Duration: 2 h	
4.10.6 Damp heat cyclic Test Db, remaining cycles		
4.10.6.2 Final measurements	Voltage proof = U_{RDC} for 1 min within 15 min after removal from testchamber Visual examination Capacitance Tangent of loss angle Insulation resistance	No breakdown of flash-over No visible damage Legible marking $ \Delta C/C \leq 3$ % of the value measured in 4.4.2 or 4.9.3 Increase of $\tan \delta$ ≤ 0.010 (370 and 371) ≤ 0.005 (372 and 373) for: $C \leq 100$ nF or ≤ 0.010 for: 100 nF $< C \leq 220$ nF or ≤ 0.015 for: 220 nF $< C \leq 470$ nF and ≤ 0.005 for: $C > 470$ nF Compared to values measured in 4.3.1 or 4.6.1 ≥ 50 % of values specified in section "Insulation Resistance" of this specification

SUB-CLAUSE NUMBER AND TEST	CONDITIONS	PERFORMANCE REQUIREMENTS
SUB-GROUP C2		
4.11 Damp heat steady state	56 days, 40 °C, 90 % to 95 % RH	No breakdown of flash-over No visible damage Legible marking ΔC/C ≤ 5 % of the value measured in 4.11.1. Increase of tan δ ≤ 0.005 Compared to values measured in 4.11.1 ≥ 50 % of values specified in section “Insulation Resistance” of this specification
4.11.1 Initial measurements	Capacitance Tangent of loss angle at 1 kHz	
4.11.3 Final measurements	Voltage proof = U _{RDC} for 1 min within 15 min after removal from testchamber Visual examination	
	Capacitance	
	Tangent of loss angle	
	Insulation resistance	
SUB GROUP C3		
4.12 Endurance	Duration: 2000 h 1.25 x U _{RDC} at 85 °C 0.8 x 1.25 U _{RDC} at 105 °C	No visible damage Legible marking ΔC/C ≤ 5 % compared to values measured in 4.12.1 Increase of tan δ ≤ 0.005 at 85 °C (370 and 371) ≤ 0.010 at 100 °C (370 and 371) ≤ 0.005 (372 and 373) for: C ≤ 100 nF or ≤ 0.010 for: 100 nF < C ≤ 220 nF or ≤ 0.015 for: 220 nF < C ≤ 470 nF and ≤ 0.003 for: C > 470 nF Compared to values measured in 4.12.1 ≥ 50 % of values specified in section “Insulation Resistance” of this specification
4.12.1 Initial measurements	Capacitance Tangent of loss angle: For C ≤ 470 nF at 100 kHz for 470 nF < C ≤ 10 μF at 10 kHz for C > 10 μF at 1 kHz	
4.12.5 Final measurements	Visual examination	
	Capacitance	
	Tangent of loss angle	
	Insulation resistance	
SUB-GROUP C4		
4.13 Charge and discharge	10 000 cycles Charged to U _{RDC} Discharge resistance: $R = \frac{U_R}{C \times 2.5 \times (dU/dt)_R}$	ΔC/C ≤ 3 % compared to values measured in 4.13.1 Increase of tan δ ≤ 0.005 for: C ≤ 100 nF or ≤ 0.010 for: 100 nF < C ≤ 220 nF or ≤ 0.015 for: 220 nF < C ≤ 470 nF and ≤ 0.003 for: C > 470 nF Compared to values measured in 4.13.1 ≥ 50 % of values specified in section “Insulation Resistance” of this specification
4.13.1 Initial measurements	Capacitance Tangent of loss angle: For C ≤ 470 nF at 100 kHz for 470 nF < C ≤ 10 μF at 10 kHz for C > 10 μF at 1 kHz	
4.13.3 Final measurements	Capacitance	
	Tangent of loss angle	
	Insulation resistance	



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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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