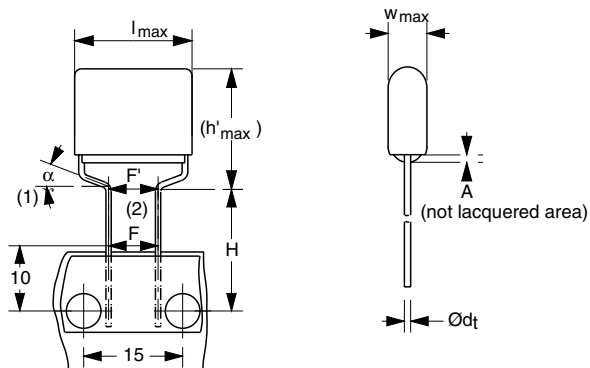


Metallized Polyester Film Capacitors

MKT Radial Epoxy Partly Lacquered Type



Dimensions in mm

(1) $0 \leq \alpha < 50^\circ$

(2) $|F - F'| < 0.3 \text{ mm}$

$F = 7.5 + 0.6/-0.1 \text{ mm}$

APPLICATIONS

Blocking, coupling and decoupling. Bypass and energy reservoir

MARKING

C-value; rated voltage; tolerance

DIELECTRIC

Polyester film

ELECTRODES

Vacuum deposited aluminum

COATING

Flame retardant epoxy material (UL-class 94 V-0)

CONSTRUCTION

Wound mono construction

LEADS

Tinned wire

CAPACITANCE RANGE (E12 SERIES)

0.01 to 10 μF

CAPACITANCE TOLERANCE

$\pm 10 \%$; $\pm 5 \%$

FEATURES

Partly lacquered product. Products taped and leads bent-back to 7.5 mm

Lead (Pb)-free product

RoHS-compliant product

RATED (DC) VOLTAGE

250 V; 400 V; 630 V

RATED (AC) VOLTAGE

63 V; 100 V; 160 V

CLIMATIC CATEGORY

55/105/56

RATED TEMPERATURE

85 $^\circ\text{C}$

MAXIMUM APPLICATION TEMPERATURE

105 $^\circ\text{C}$

REFERENCE SPECIFICATIONS

IEC 60384-2

PERFORMANCE GRADE

Grade 1 (long life)

DETAIL SPECIFICATION

For more detailed data and test requirements contact:
filmcaps.roeselare@vishay.com



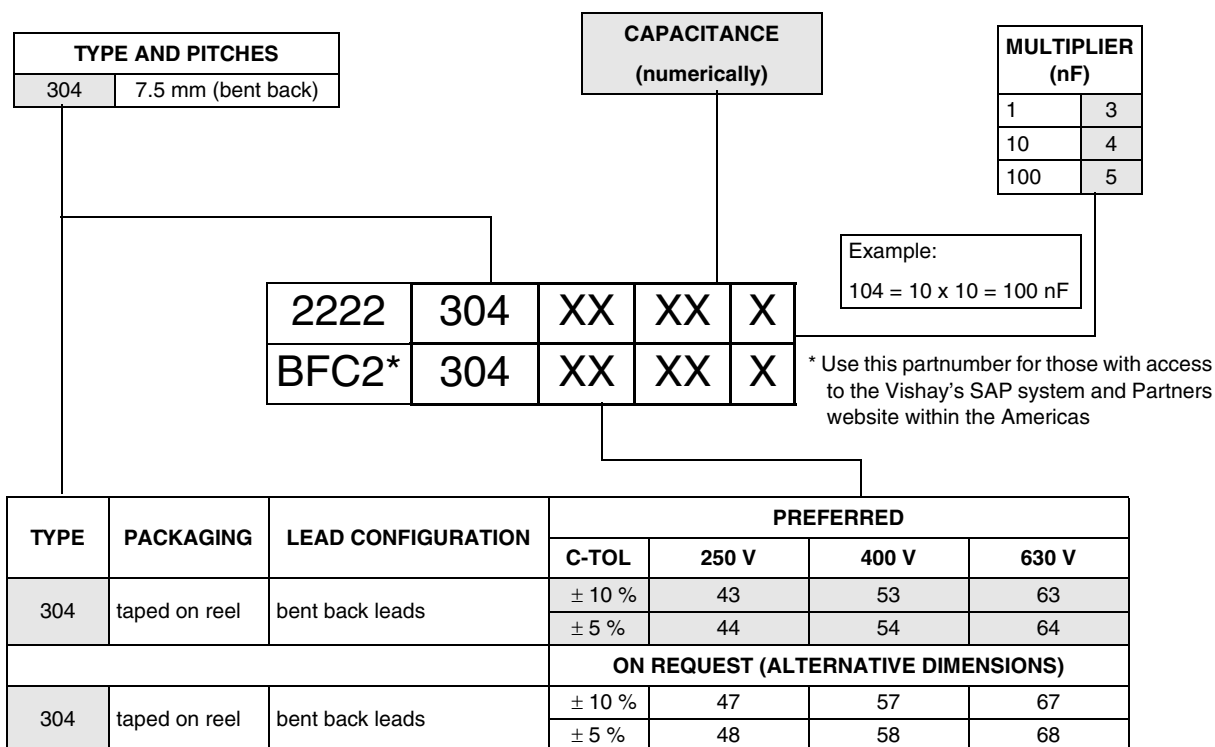
RoHS
COMPLIANT



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Vishay BCcomponents

COMPOSITION OF CATALOG NUMBER



SPECIFIC REFERENCE DATA

DESCRIPTION	VALUE		
Tangent of loss angle: C ≤ 0.47 µF C > 0.47 µF	at 1 kHz	at 10 kHz	at 100 kHz
	≤ 75 × 10 ⁻⁴	≤ 120 × 10 ⁻⁴	≤ 225 × 10 ⁻⁴
	≤ 75 × 10 ⁻⁴	≤ 120 × 10 ⁻⁴	–
Rated voltage pulse slope (dU/dt) _R : I _{max} = 12.5 mm I _{max} = 17.5 mm	at 250 V (DC)	at 400 V (DC)	at 630 V (DC)
	18 V/µs	45 V/µs	137 V/µs
	6 V/µs	15 V/µs	44 V/µs
R between leads, for C ≤ 0.33 µF at 100 V; 1 minute	> 30000 MΩ		
RC between leads, for C > 0.33 µF at 100 V; 1 minute	> 10000 s		
R between interconnecting leads and casing; 100 V; 1 minute	> 30000 MΩ		
Withstanding (DC) voltage (cut off current 10 mA); rise time 100 V/s	400 V; 1 minute	640 V; 1 minute	1008 V; 1 minute
Withstanding (DC) voltage between leads and case	500 V; 1 minute	800 V; 1 minute	1260 V; 1 minute

$U_{Rdc} = 250 \text{ V}$; $U_{Rac} = 63 \text{ V}$

C ⁽¹⁾ (μF)	DIMENSIONS Wmax × Hmax × Lmax (mm)	MASS (g)	CATALOG NUMBER 2222 304 AND PACKAGING		
			REEL DIAMETER = 500 mm		
			C-tol = ± 10 %	C-tol = ± 5 %	SPQ
			last 5 digits of catalog number	last 5 digits of catalog number	
Pitch = 7.5 ± 0.4 mm; d _t = 0.60 ± 0.06 mm; A ≤ 3.5 mm			bent back		
0.1	4.7 × 15.2 × 12.5	0.5	43104	44104	2000
0.12	4.3 × 14.8 × 12.5	0.4	43124	44124	2000
0.15	4.8 × 15.3 × 12.5	0.5	43154	44154	2000
0.18	5.2 × 15.7 × 12.5	0.6	43184	44184	1750
0.22	4.5 × 15.0 × 12.5	0.5	43224	44224	2000
0.27	5.0 × 15.5 × 12.5	0.5	43274	44274	1750
0.33	4.6 × 15.1 × 12.5	0.5	43334	44334	2000
0.39	4.9 × 15.4 × 12.5	0.5	43394	44394	2000
0.47	5.4 × 15.9 × 12.5	0.6	43474	44474	1750
0.56	5.8 × 16.3 × 12.5	0.7	43564	44564	1500
Pitch = 7.5 ± 0.4 mm; d _t = 0.80 ± 0.08 mm; A ≤ 4.0 mm			bent back		
0.39	5.8 × 16.3 × 17.5	0.9	47394	48394	800
0.47	6.4 × 16.9 × 17.5	1.1	47474	48474	700
0.56	5.5 × 16.0 × 17.5	0.9	47564	48564	900
0.68	6.0 × 16.5 × 17.5	1.0	43684	44684	800
0.82	5.4 × 15.9 × 17.5	0.8	43824	44824	900
1.0	6.0 × 16.5 × 17.5	1.0	43105	44105	800
1.2	6.5 × 17.0 × 17.5	1.1	43125	44125	700
1.5	7.3 × 17.8 × 17.5	1.3	43155	44155	600
1.8	7.9 × 18.4 × 17.5	1.5	43185	44185	600

Note

1. Values in *Italic* indicate alternative dimensions.

 $U_{Rdc} = 400 \text{ V}$; $U_{Rac} = 100 \text{ V}$

C ⁽¹⁾ (μF)	DIMENSIONS Wmax × Hmax × Lmax (mm)	MASS (g)	CATALOG NUMBER 2222 304 AND PACKAGING		
			REEL DIAMETER = 500 mm		
			C-tol = ± 10 %	C-tol = ± 5 %	SPQ
			last 5 digits of catalog number	last 5 digits of catalog number	
Pitch = 7.5 ± 0.4 mm; d _t = 0.60 ± 0.06 mm; A ≤ 3.5 mm			bent back		
0.1	4.7 × 15.2 × 12.5	0.5	53104	54104	2000
0.12	4.3 × 14.8 × 12.5	0.4	53124	54124	2000
0.15	4.8 × 15.3 × 12.5	0.5	53154	54154	2000
0.18	5.2 × 15.7 × 12.5	0.6	53184	54184	1750
0.22	5.7 × 16.2 × 12.5	0.6	53224	54224	1500
Pitch = 7.5 ± 0.4 mm; d _t = 0.80 ± 0.08 mm; A ≤ 4.0 mm			bent back		
0.12	6.5 × 17.0 × 17.5	1.1	57124	58124	800
0.15	5.4 × 15.9 × 17.5	0.8	57154	58154	900
0.18	5.9 × 16.4 × 17.5	1.0	57184	58184	800
0.22	5.3 × 15.8 × 17.5	0.8	57224	58224	900



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C ⁽¹⁾ (μF)	DIMENSIONS W _{max} × H _{max} × L _{max} (mm)	MASS (g)	CATALOG NUMBER 2222 304 AND PACKAGING		
			REEL DIAMETER = 500 mm		
			C-tol = ± 10 %	C-tol = ± 5 %	SPQ
			last 5 digits of catalog number	last 5 digits of catalog number	
0.27	5.8 × 16.3 × 17.5	0.9	53274	54274	800
0.33	5.4 × 15.9 × 17.5	0.8	53334	54334	900
0.39	5.8 × 16.3 × 17.5	0.9	53394	54394	800
0.47	6.4 × 16.9 × 17.5	1.1	53474	54474	700
0.56	6.9 × 17.4 × 17.5	1.2	53564	54564	700
0.68	7.6 × 18.1 × 17.5	1.4	53684	54684	600
0.82	8.4 × 18.9 × 17.5	1.7	53824	54824	500

Note

1. Values in *Italic* indicate alternative dimensions.

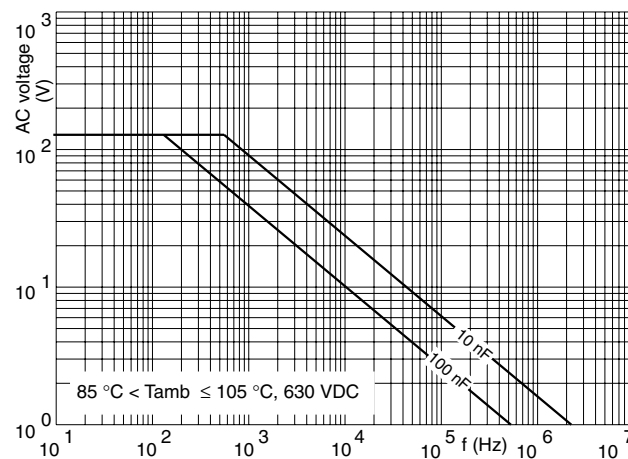
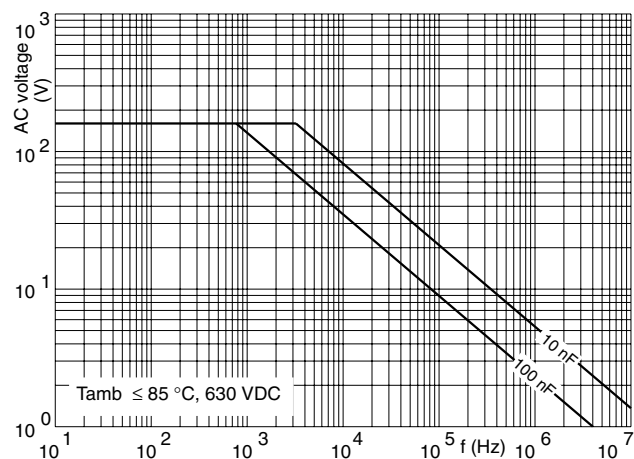
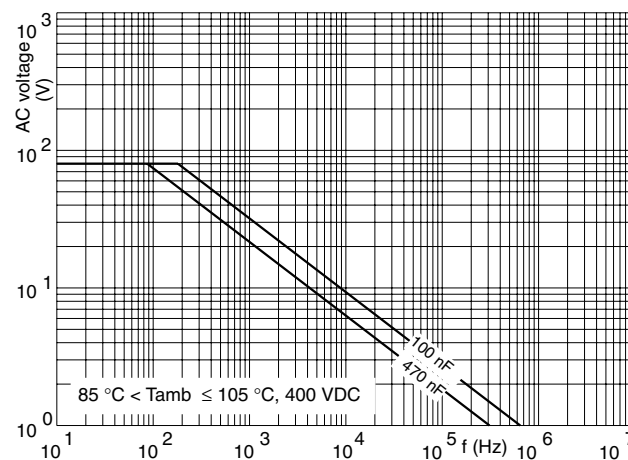
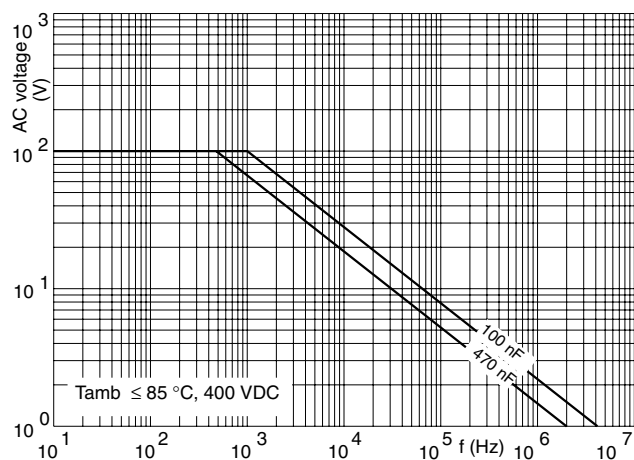
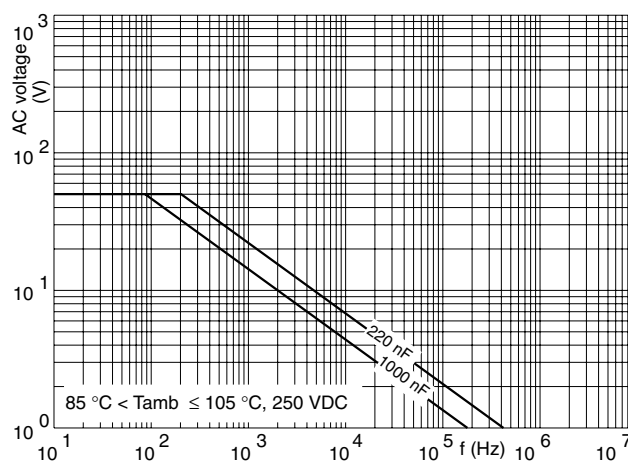
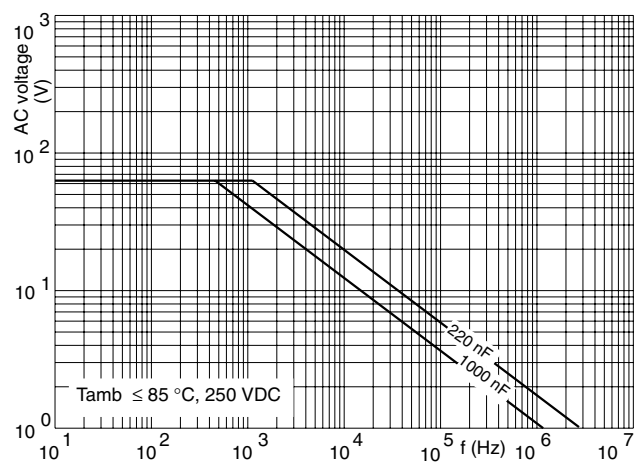
U_{Rdc} = 630 V; U_{Rac} = 160 V

C ⁽¹⁾ (μF)	DIMENSIONS Wmax × Hmax × Lmax (mm)	MASS (g)	CATALOG NUMBER 2222 304 AND PACKAGING		
			REEL DIAMETER = 500 mm		
			C-tol = ± 10 %	C-tol = ± 5 %	SPQ
			last 5 digits of catalog number	last 5 digits of catalog number	
Pitch = 7.5 ± 0.4 mm; d _t = 0.60 ± 0.06 mm; A ≤ 3.5 mm			bent back		
0.01	4.1 × 14.6 × 12.5	0.4	63103	64103	2000
0.012	4.5 × 15.0 × 12.5	0.5	63123	64123	2000
0.015	4.9 × 15.4 × 12.5	0.5	63153	64153	2000
0.018	4.4 × 14.9 × 12.5	0.4	63183	64183	2000
0.022	4.8 × 15.3 × 12.5	0.5	63223	64223	2000
0.027	4.2 × 14.7 × 12.5	0.4	63273	64273	2000
0.033	4.0 × 14.5 × 12.5	0.4	63333	64333	2000
0.039	4.3 × 14.8 × 12.5	0.4	63393	64393	2000
0.047	4.7 × 15.2 × 12.5	0.5	63473	64473	2000
0.056	5.1 × 15.6 × 12.5	0.5	63563	64563	1750
0.068	5.5 × 16.0 × 12.5	0.6	63683	64683	1750
Pitch = 7.5 ± 0.4 mm; d _t = 0.80 ± 0.08 mm; A ≤ 4.0 mm			bent back		
0.056	5.9 × 16.4 × 17.5	1.0	67563	68563	800
0.068	6.4 × 16.9 × 17.5	1.1	67683	68683	700
0.082	5.4 × 15.9 × 17.5	0.8	63823	64823	900
0.1	5.2 × 15.7 × 17.5	0.8	63104	64104	900
0.12	5.7 × 16.2 × 17.5	0.9	63124	64124	800
0.15	6.3 × 16.8 × 17.5	1.1	63154	64154	700
0.18	6.9 × 17.4 × 17.5	1.2	63184	64184	700
0.22	7.6 × 18.1 × 17.5	1.4	63224	64224	600
0.27	8.4 × 18.9 × 17.5	1.7	63274	64274	500

Note

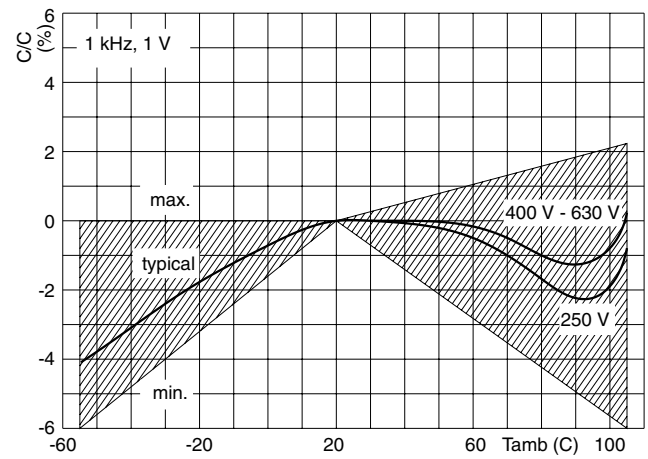
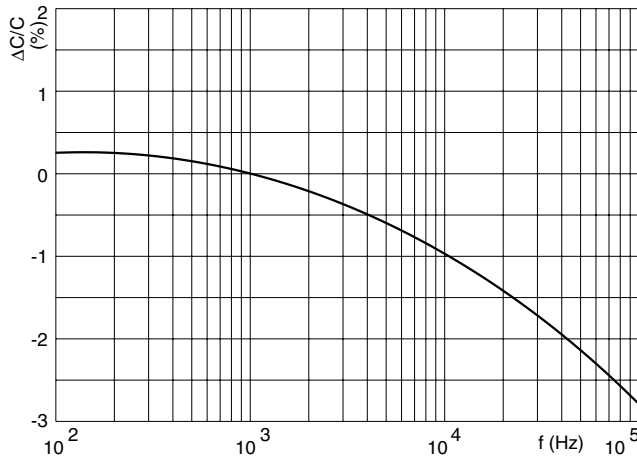
1. Values in *Italic* indicate alternative dimensions.

MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY

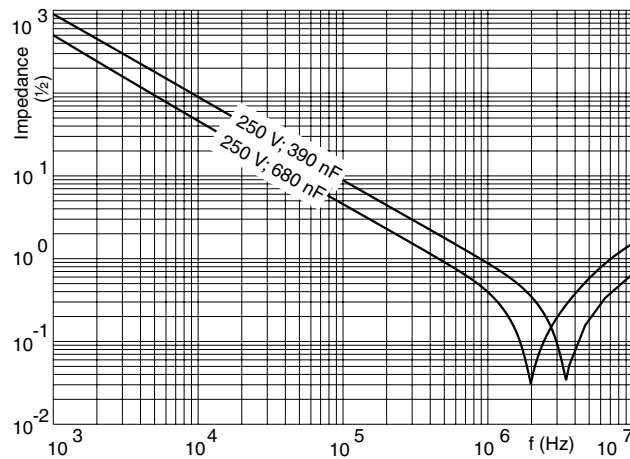




CAPACITANCE



IMPEDANCE





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