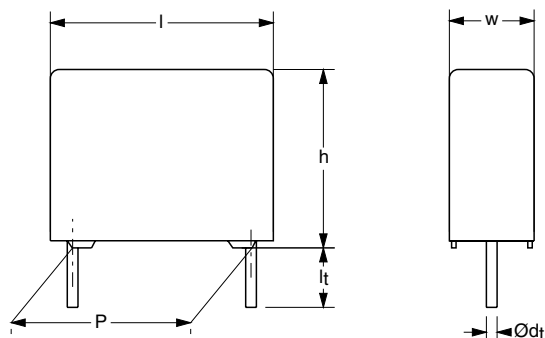


Metallized Polyester Film Capacitors

MKT Radial Potted Type



Dimensions in mm

APPLICATIONS

Blocking and coupling. Bypass and energy reservoir

MARKING

C-value; tolerance; rated voltage; code for manufacturer; year and week of manufacturer; manufacturer's type designation

DIELECTRIC

Polyester film

ELECTRODES

Vacuum deposited aluminum

ENCAPSULATION

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

CONSTRUCTION

Wound mono construction

LEADS

Tinned wire

CAPACITANCE RANGE (E12 SERIES)

0.0047 to 0.68 μ F

FEATURES

Available taped and loose in box

Lead (Pb)-free product

RoHS-compliant product

CAPACITANCE TOLERANCE

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

RATED (DC) VOLTAGE

100 V; 250 V; 400 V; 630 V

RATED (AC) VOLTAGE

63 V; 160 V; 220 V; 250 V

CLIMATIC CATEGORY

55/105/56

RATED TEMPERATURE

85 °C

MAXIMUM APPLICATION TEMPERATURE

100 °C

REFERENCE SPECIFICATIONS

IEC 60384-2

PERFORMANCE GRADE

Grade 1 (long life)

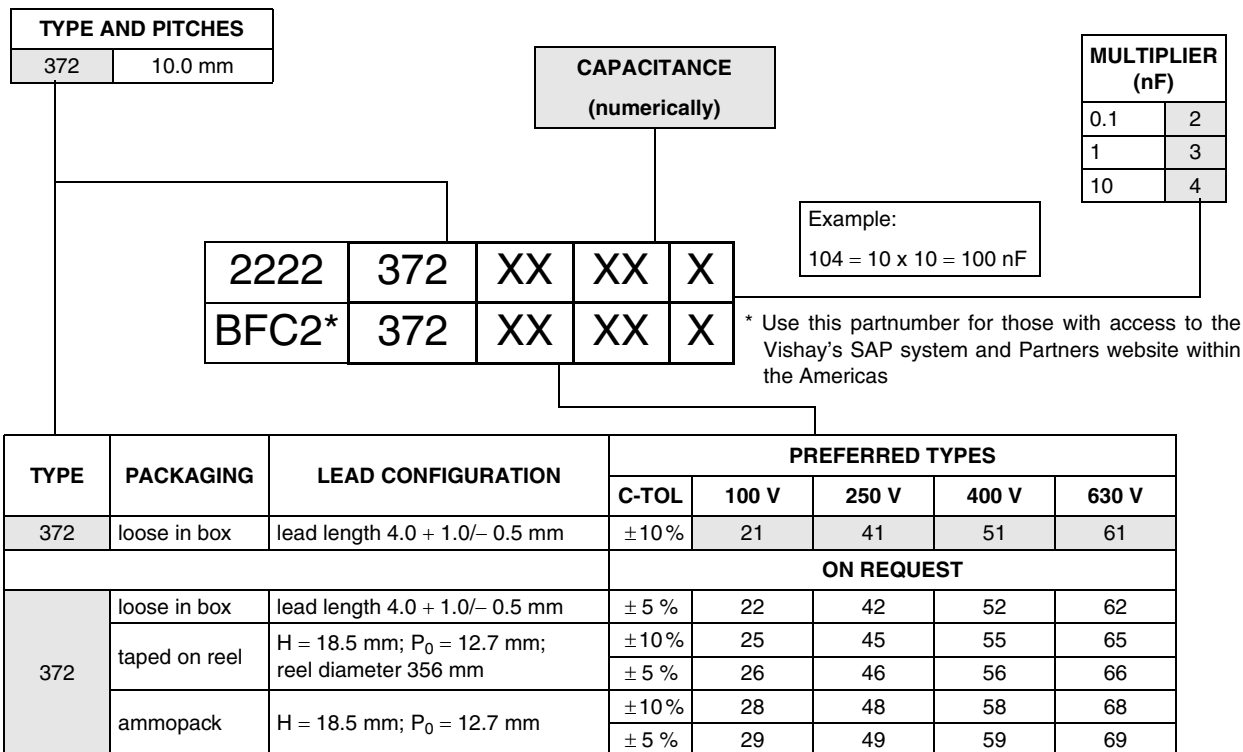
DETAIL SPECIFICATION

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



RoHS
COMPLIANT

COMPOSITION OF CATALOG NUMBER



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 × 10 ⁻⁴	≤ 130 × 10 ⁻⁴	≤ 250 × 10 ⁻⁴	
	≤ 75 × 10 ⁻⁴	≤ 130 × 10 ⁻⁴	≤ 300 × 10 ⁻⁴	
Rated voltage pulse slope (dU/dt) _R	at 100 V (DC)	at 250 V (DC)	at 400 V (DC)	at 630 V (DC)
	34 V/μs	50 V/μs	80 V/μs	120 V/μs
R between leads, for C ≤ 0.33 μF: at 100 V; 1 minute at 500 V; 1 minute	> 15000 MΩ	> 30000 MΩ	> 30000 MΩ	> 30000 MΩ
RC between leads, for C > 0.33 μF at 100 V; 1 minute	> 5000 s			
R between interconnected leads and case (foil method)	> 30000 MΩ	> 30000 MΩ	> 30000 MΩ	> 30000 MΩ
Withstanding (DC) voltage (cut off current 10 mA); rise time 100 V/s	160 V; 1 minute	400 V; 1 minute	640 V; 1 minute	1008 V; 1 minute
Withstanding (DC) voltage between leads and case	200 V; 1 minute	500 V; 1 minute	800 V; 1 minute	1260 V; 1 minute



Metallized Polyester Film Capacitors Vishay BCcomponents

MKT Radial Potted Type

$U_{Rdc} = 100\text{ V}$, $U_{Rac} = 63\text{ V}$

C (μF)	DIMENSIONS W × H × L (mm)	MASS (g)	CATALOG NUMBER 2222 372 AND PACKAGING				
			LOOSE IN BOX		REEL	AMMOPACK	
			It = 4.0 + 1.0/– 0.5 mm				
			C-tol = ± 10 %				SPQ
			last 5 digits of catalog number				
Pitch = 10.0 ± 0.4 mm; d _t = 0.60 ± 0.06 mm							
0.1 0.12 0.15 0.18	4.0 × 10.0 × 12.5	0.7	21104 21124 21154 21184	1000	1400	750	
0.22 0.27 0.33	4.0 × 10.0 × 12.5	0.7	21224 21274 21334	1000	1400	750	
0.39 0.47	5.0 × 11.0 × 12.5	0.9	21394 21474	1000	1100	600	
0.56 0.68	6.0 × 12.0 × 12.5	1.0	21564 21684	750	900	500	

$U_{Rdc} = 250\text{ V}$; $U_{Rac} = 160\text{ V}$

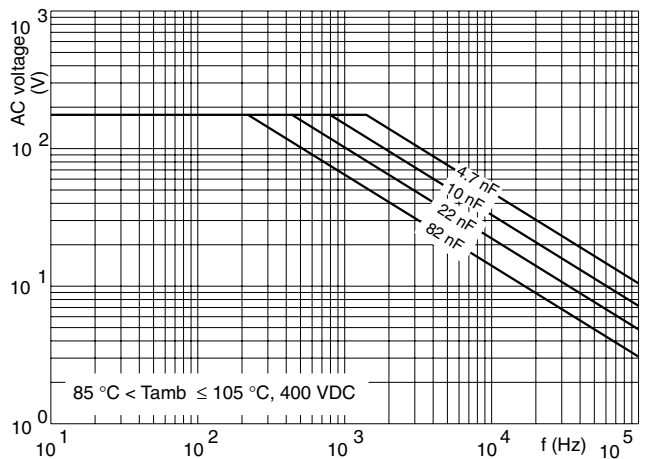
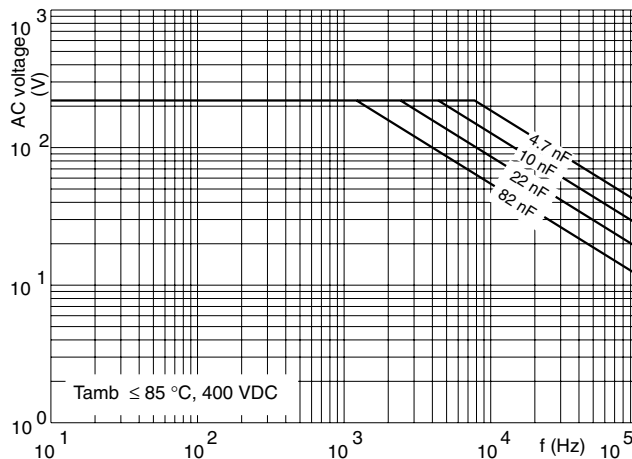
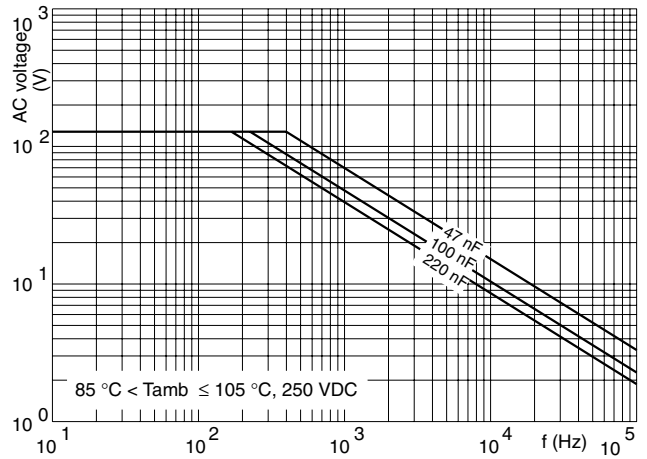
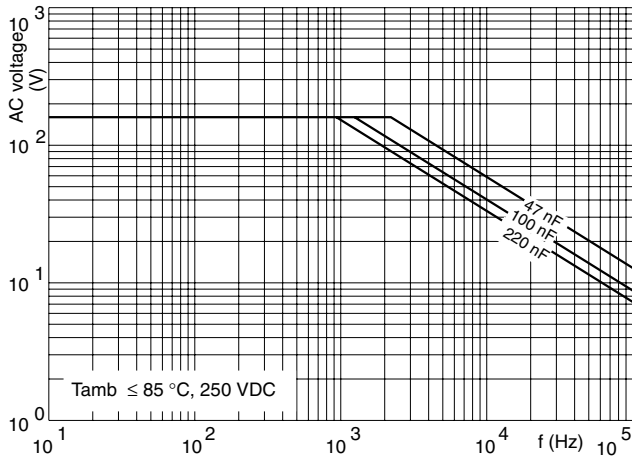
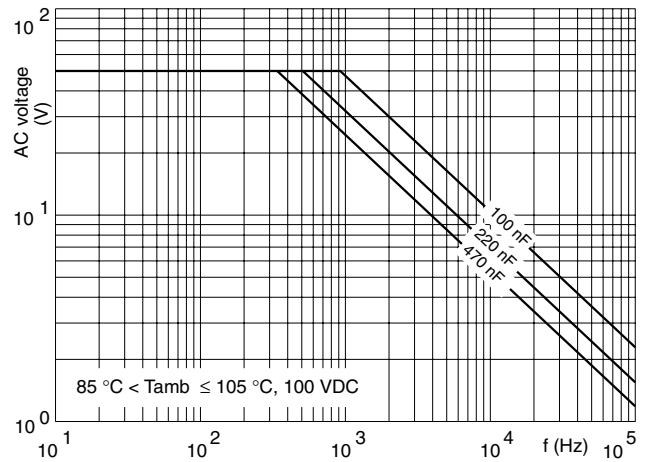
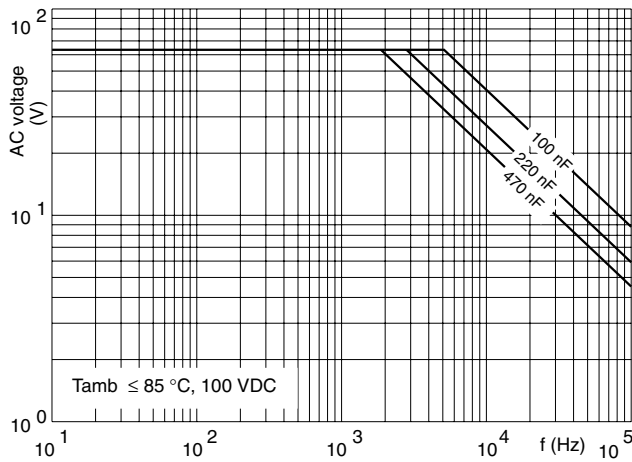
C (μF)	DIMENSIONS W × H × L (mm)	MASS (g)	CATALOG NUMBER 2222 372 AND PACKAGING			
			LOOSE IN BOX		REEL	AMMOPACK
			lt = 4.0 + 1.0/- 0.5 mm		SPQ	SPQ
			C-tol = ± 10 %			
			last 5 digits of catalog number			
Pitch = 10.0 ± 0.4 mm; dt = 0.60 ± 0.06 mm						
0.047 0.056 0.068 0.082 0.1	4.0 × 10.0 × 12.5	0.7	41473 41563 41683 41823 41104	1000	1400	750
0.12 0.15	5.0 × 11.0 × 12.5	0.9	41124 41154	1000	1100	600
0.18 0.22	6.0 × 12.0 × 12.5	1.0	41184 41224	750	900	500

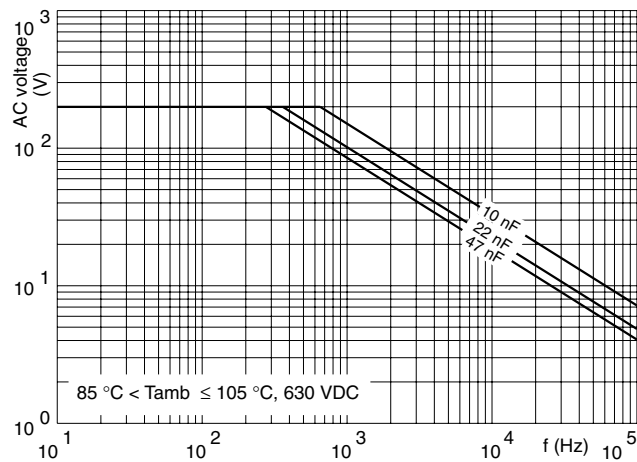
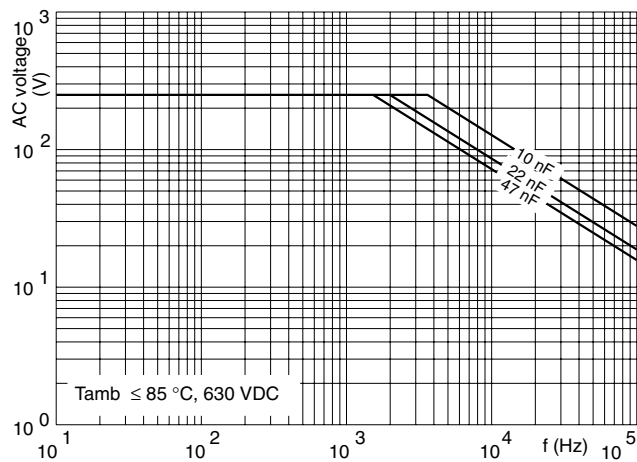
$U_{Rdc} = 400 \text{ V}$; $U_{Rac} = 220 \text{ V}$

C (μF)	DIMENSIONS W × H × L (mm)	MASS (g)	CATALOG NUMBER 2222 372 AND PACKAGING			
			LOOSE IN BOX		REEL	AMMOPACK
			It = 4.0 + 1.0/- 0.5 mm			
			C-tol = ± 10 %	SPQ		
			last 5 digits of catalog number			
Pitch = 10.0 ± 0.4 mm; d _t = 0.60 ± 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 × 10.0 × 12.5	0.7	51472 51562 51682 51822 51103 51123 51153 51183 51223 51273 51333	1000	1400	750
0.039 0.047 0.056	5.0 × 11.0 × 12.5	0.9	51393 51473 51563	1000	1100	600
0.068 0.082	6.0 × 12.0 × 12.5	1.0	51683 51823	750	900	500

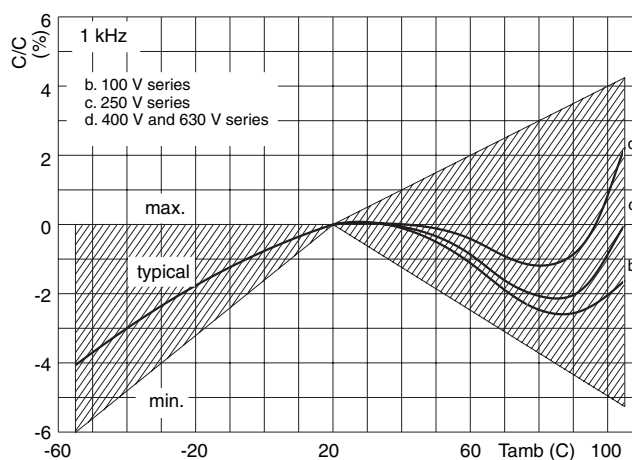
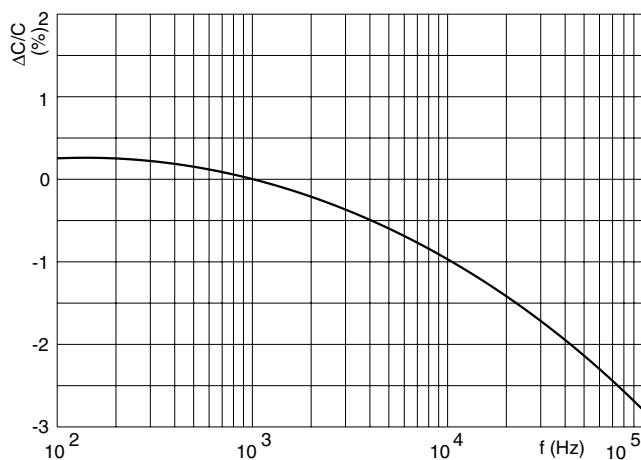
 $U_{Rdc} = 630 \text{ V}$; $U_{Rac} = 250 \text{ V}$

C (μF)	DIMENSIONS W × H × L (mm)	MASS (g)	CATALOG NUMBER 2222 372 AND PACKAGING			
			LOOSE IN BOX		REEL	AMMOPACK
			It = 4.0 + 1.0/- 0.5 mm		SPQ	SPQ
			C-tol = ± 10 %	SPQ		
			last 5 digits of catalog number			
Pitch = 10.0 ± 0.4 mm; d _t = 0.60 ± 0.06 mm						
0.01	4.0 × 10.0 × 12.5	0.6	61103	1000	1400	750
0.012			61123			
0.015			61153			
0.018			61183			
0.022			61223			
0.027	5.0 × 11.0 × 12.5	0.9	61273	1000	1100	600
0.033			61333			
0.039	6.0 × 12.0 × 12.5	1.0	61393	750	900	500
0.047			61473			

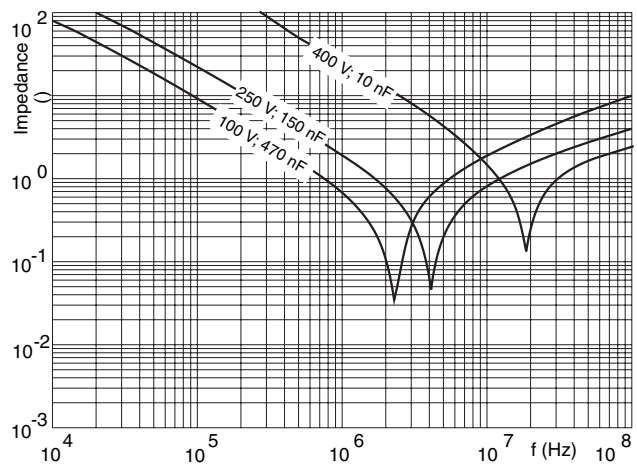
**MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY**



CAPACITANCE



IMPEDANCE





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