Metallized Polyester Film Capacitors
MKT Radial Potted Type

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

e3

CAPACITANCE RANGE (E12 SERIES)

0.0047 to 0.68 μF

CAPACITANCE TOLERANCE

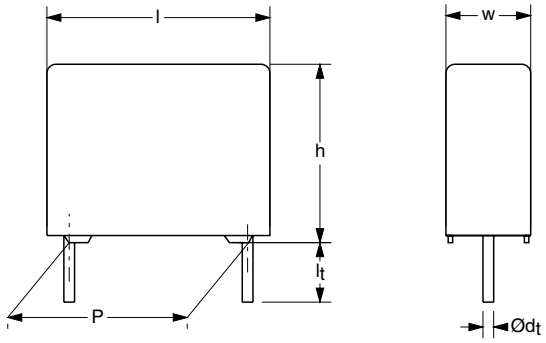
±10%; ±5%

RATED (DC) VOLTAGE

100 V; 250 V; 400 V; 630 V

RATED (AC) VOLTAGE

63 V; 160 V; 220 V; 250 V



Dimensions in mm

CLIMATIC CATEGORY

55/105/56

RATED TEMPERATURE

85 °C

MAXIMUM APPLICATION TEMPERATURE

105 °C

REFERENCE SPECIFICATIONS

IEC 60384-2

PERFORMANCE GRADE

Grade 1 (long life)

FEATURES

Available taped and loose in box

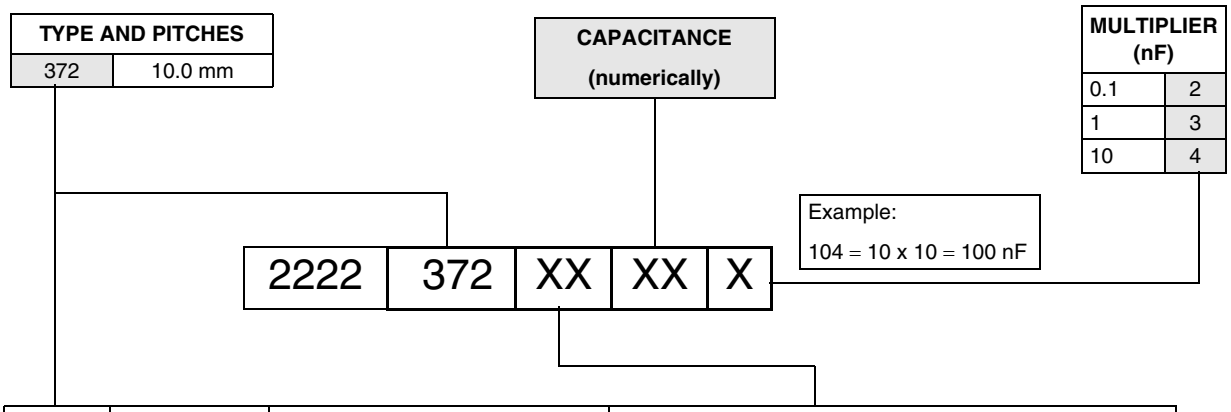
Lead (Pb)-free product

Pb-free

DETAIL SPECIFICATION

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

COMPOSITION OF CATALOG NUMBER



TYPE	PACKAGING	LEAD CONFIGURATION	PREFERRED TYPES				
			C-TOL	100 V	250 V	400 V	630 V
372	loose in box	lead length 4.0 +1.0/–0.5 mm	±10%	21	41	51	61
			ON REQUEST				
372	loose in box	lead length 4.0 +1.0/–0.5 mm	±5%	22	42	52	62
	taped on reel	H = 18.5 mm; P_0 = 12.7 mm; reel diameter 356 mm	±10%	25	45	55	65
			±5%	26	46	56	66
	ammopack	H = 18.5 mm; P_0 = 12.7 mm	±10%	28	48	58	68
			±5%	29	49	59	69

SPECIFIC REFERENCE DATA

DESCRIPTION	VALUE			
Tangent of loss angle:	at 1 kHz	at 10 kHz	at 100 kHz	
$C \leq 0.1\ \mu F$	$\leq 75 \times 10^{-4}$	$\leq 130 \times 10^{-4}$	$\leq 250 \times 10^{-4}$	
$0.1\ \mu F < C \leq 0.68\ \mu F$	$\leq 75 \times 10^{-4}$	$\leq 130 \times 10^{-4}$	$\leq 300 \times 10^{-4}$	
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 $C \leq 0.33\ \mu F$: at 100 V; 1 minute	>15000 MΩ	>30000 MΩ	>30000 MΩ	
at 500 V; 1 minute				>30000 MΩ
RC between leads, for $C > 0.33\ \mu F$ 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

U_{Rdc} = 100 V, U_{Rac} = 63 V

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

U_{Rdc} = 250 V; U_{Rac} = 160 V

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

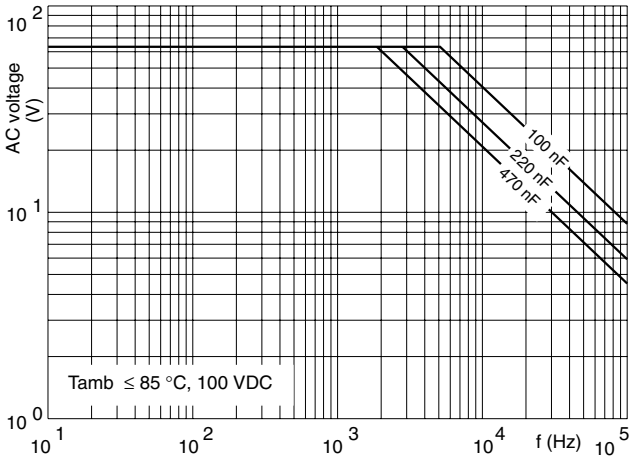
U_{Rdc} = 400 V; U_{Rac} = 220 V

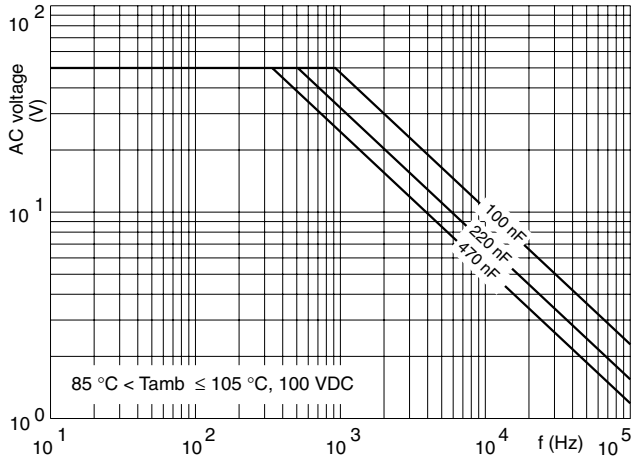
C (µF)	DIMENSIONS w × h × l (mm)	MASS (g)	CATALOG NUMBER 2222 372 ..... AND PACKAGING			
			LOOSE IN BOX		REEL	AMMOPACK
			l_t = 4.0 +1.0/–0.5 mm			
			C-tol = ±10%			
			last 5 digits of catalog number	SPQ	SPQ	SPQ
Pitch = 10.0 ±0.4 mm; d_t = 0.60 ±0.06 mm						
0.0047	4.0 × 10.0 × 12.5	0.7	51472	1000	1400	750
0.0056			51562			
0.0068			51682			
0.0082			51822			
0.01			51103			
0.012			51123			
0.015			51153			
0.018			51183			
0.022			51223			
0.027			51273			
0.033			51333			
0.039	5.0 × 11.0 × 12.5	0.9	51393	1000	1100	600
0.047			51473			
0.056			51563			
0.068	6.0 × 12.0 × 12.5	1.0	51683	750	900	500
0.082			51823			

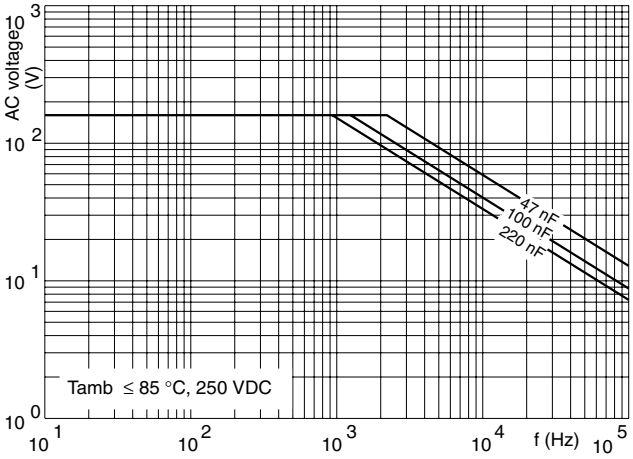
U_{Rdc} = 630 V; U_{Rac} = 250 V

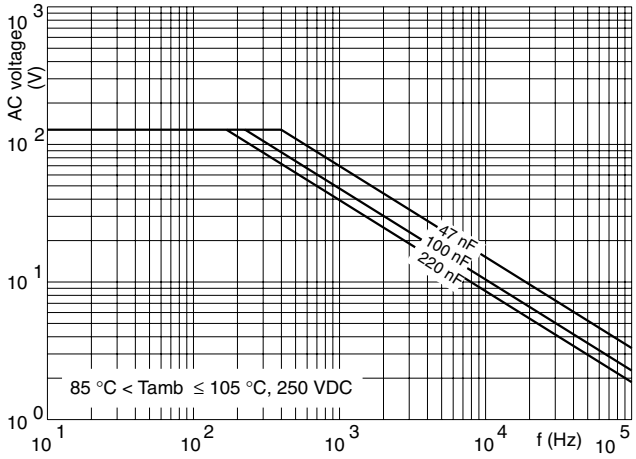
C (µF)	DIMENSIONS w × h × l (mm)	MASS (g)	CATALOG NUMBER 2222 372 ..... AND PACKAGING			
			LOOSE IN BOX		REEL	AMMOPACK
			l_t = 4.0 +1.0/–0.5 mm			
			C-tol = ±10%			
			last 5 digits of catalog number	SPQ	SPQ	SPQ
Pitch = 10.0 ±0.4 mm; d_t = 0.60 ±0.06 mm						
0.01	4.0 × 10.0 × 12.5	0.6	61103	1000	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			

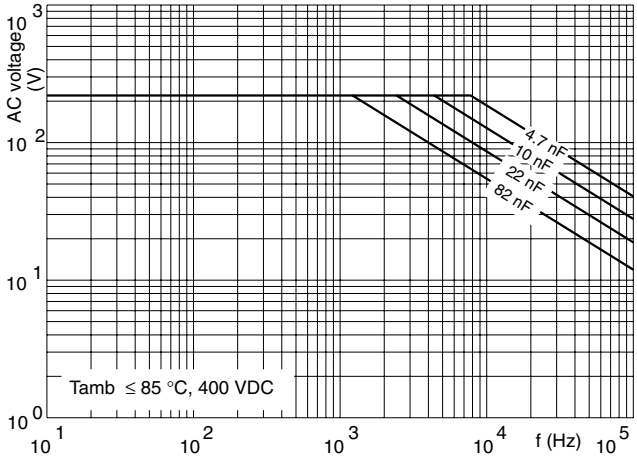
MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY

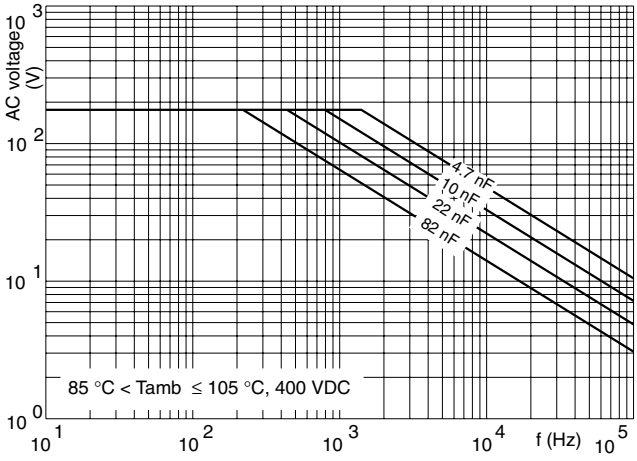


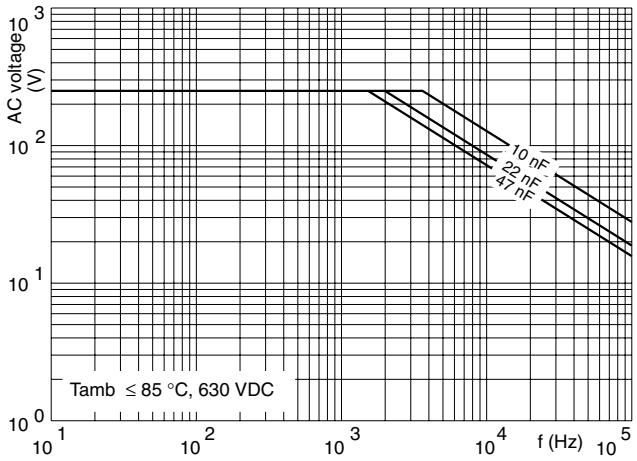


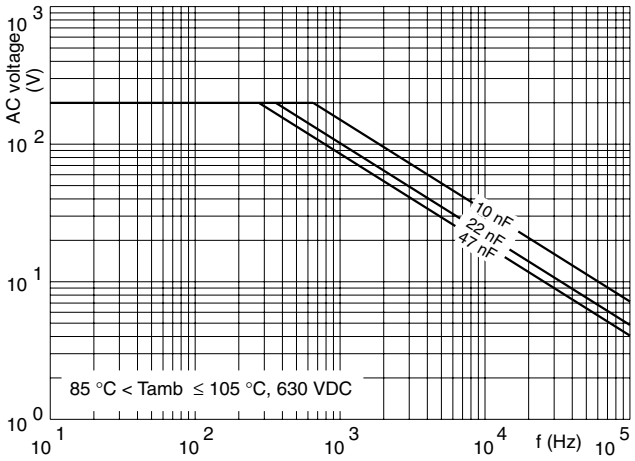




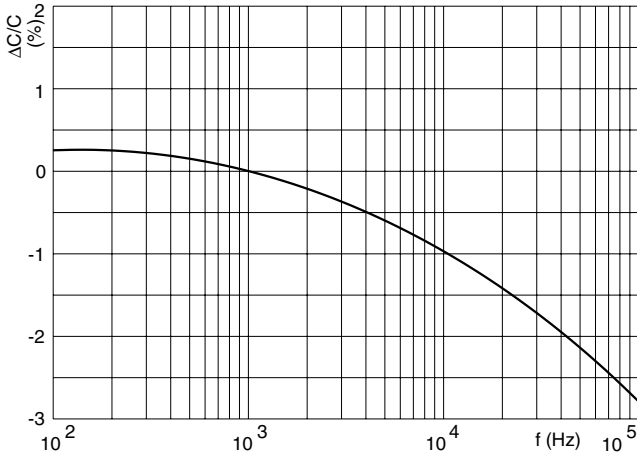


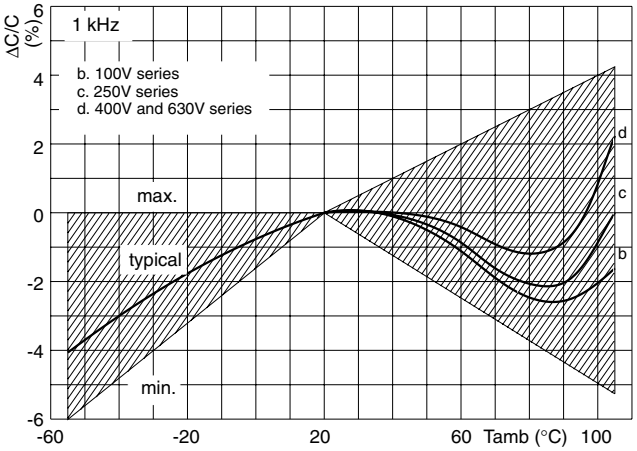






CAPACITANCE





IMPEDANCE