

## Metallized Polyester Film Capacitors MKT Radial Potted Type

**APPLICATIONS**

Blocking and coupling. Bypass and energy reservoir

**MARKING**

C-value; tolerance; rated voltage; manufacturer's emblem;  
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)**

0.001 to 1.5  $\mu$ F

**CAPACITANCE TOLERANCE**

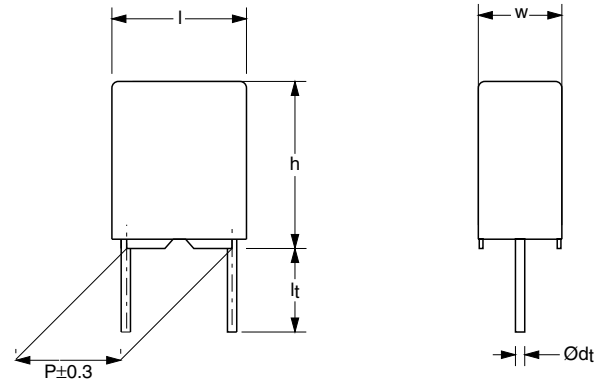
$\pm$ 10%;  $\pm$ 5%

**RATED (DC) VOLTAGE:**

63 V; 100 V; 250 V; 400 V

**RATED (AC) VOLTAGE**

40 V; 63 V; 160 V; 220 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

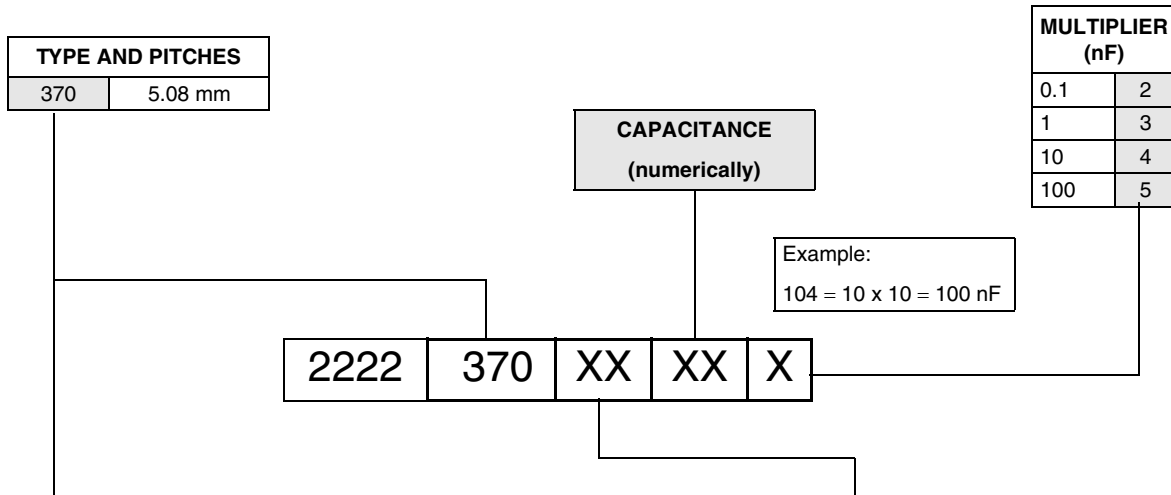
Lead (Pb)-free product


**DETAIL SPECIFICATION**

For more detailed data and test requirements contact:  
[filmcaps.roeselare@vishay.com](mailto:filmcaps.roeselare@vishay.com)



## COMPOSITION OF CATALOG NUMBER



TYPE	PACKAGING	LEAD CONFIGURATION	PREFERRED TYPES				
			C-TOL	63 V	100 V	250 V	400 V
370	ammopack	H = 18.5 mm; P <sub>0</sub> = 12.7 mm	±10%	75	85	35	65
			±5%	76	86	36	66
			ON REQUEST				
370	loose in box	lead length 4.0 +1.0/-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	H = 18.5 mm; P <sub>0</sub> = 12.7 mm; reel diameter 356 mm	±10%	18	28	48	58
			±5%	19	29	49	59

## SPECIFIC REFERENCE DATA

DESCRIPTION	VALUE			
	at 1 kHz	at 10 kHz	at 100 kHz	
Tangent of loss angle:				
C ≤ 0.1 μF	≤75 × 10 <sup>-4</sup>	≤130 × 10 <sup>-4</sup>	≤250 × 10 <sup>-4</sup>	
0.1 μF < C ≤ 0.47 μF	≤75 × 10 <sup>-4</sup>	≤130 × 10 <sup>-4</sup>	≤300 × 10 <sup>-4</sup>	
0.47 μF < C ≤ 1.5 μF	≤75 × 10 <sup>-4</sup>	≤130 × 10 <sup>-4</sup>	-	
Rated voltage pulse slope (dU/dt) <sub>R</sub>	at 63 V (DC)	at 100 V (DC)	at 250 V (DC)	at 400 V (DC)
	60 V/μs	110 V/μs	330 V/μs	630 V/μs
R between leads, for C ≤ 0.33 μF:				
at 10 V; 1 minute	>15000 MΩ			
at 100 V; 1 minute		>15000 MΩ	>30000 MΩ	>30000 MΩ
RC between leads, for:				
0.33 μF < C ≤ 1.0 μF at 10 V; 1 minute	>5000 s			
C > 1.0 μF at 10 V; 1 minute	>1000 s			
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	100 V; 1 minute	160 V; 1 minute	400 V; 1 minute	640 V; 1 minute
Withstanding (DC) voltage between leads and case	200 V; 1 minute	200 V; 1 minute	500 V; 1 minute	800 V; 1 minute



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**U<sub>Rdc</sub> = 63 V; U<sub>Rac</sub> = 40 V**

C (μF)	DIMENSIONS w × h × l (mm)	MASS (g)	CATALOG NUMBER 2222 370 ..... AND PACKAGING					
			AMMOPACK			LOOSE IN BOX		REEL
			H = 18.5 mm; P <sub>0</sub> = 12.7 mm			short leads	long leads	
			C-tol = ±10%	C-tol = ±5%	last 5 digits of catalog number	SPQ	SPQ	SPQ
<b>Pitch = 5.08 ±0.30 mm; d<sub>t</sub> = 0.50 ±0.05 mm</b>								
0.056	2.5 × 6.5 × 7.2	0.25	75563	76563	2000	2000	1000	2000
0.068			75683	76683				
0.082			75823	76823				
0.1			75104	76104				
0.12			75124	76124				
0.15			75154	76154				
0.18	75184	76184						
0.22	3.5 × 8.0 × 7.2	0.35	75224	76224	1500	2000	1000	1500
0.27			75274	76274				
0.33			75334	76334				
0.39			75394	76394				
0.47			75474	76474				
0.56	4.5 × 9.0 × 7.2	0.45	75564	76564	1000	2000	1000	1000
0.68			75684	76684				
0.82	6.0 × 11.0 × 7.2	0.60	75824	76824	750	2000	1000	1000
1			75105	76105				
1.2 <sup>(1)</sup>			75125	76125				
1.5 <sup>(1)</sup>			75155	76155				

**Note**

1. For C = 1.2 μF and C = 1.5 μF: U<sub>Rdc</sub> = 50 V and U<sub>Rac</sub> = 32 V.

**U<sub>Rdc</sub> = 100 V, U<sub>Rac</sub> = 63 V**

C (μF)	DIMENSIONS w × h × l (mm)	MASS (g)	CATALOG NUMBER 2222 370 ..... AND PACKAGING					
			AMMOPACK			LOOSE IN BOX		REEL
			H = 18.5 mm; P <sub>0</sub> = 12.7 mm			short leads	long leads	
			C-tol = ±10%	C-tol = ±5%	last 5 digits of catalog number	SPQ	SPQ	SPQ
<b>Pitch = 5.08 ±0.30 mm; d<sub>t</sub> = 0.50 ±0.05 mm</b>								
0.012	2.5 × 6.5 × 7.2	0.25	85123	86123	2000	2000	1000	2000
0.015			85153	86153				
0.018			85183	86183				
0.022			85223	86223				
0.027			85273	86273				
0.033	2.5 × 6.5 × 7.2	0.25	85333	86333	2000	2000	1000	2000
0.039			85393	86393				
0.047			85473	86473				
0.056			85563	86563				
0.068			85683	86683				
0.082			85823	86823				
0.1	3.5 × 8.0 × 7.2	0.35	85104	86104	1500	2000	1000	1500
0.12			85124	86124				
0.15			85154	86154				
0.18			85184	86184				
0.22	4.5 × 9.0 × 7.2	0.45	85224	86224	1000	2000	1000	1000
0.27			85274	86274				
0.33			85334	86334				
0.39	6.0 × 11.0 × 7.2	0.65	85394	86394	750	2000	1000	1000
0.47			85474	86474				



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

C ( $\mu\text{F}$ )	DIMENSIONS w × h × l (mm)	MASS (g)	CATALOG NUMBER 2222 370 ..... AND PACKAGING					
			AMMOPACK			LOOSE IN BOX		REEL
			H = 18.5 mm; P <sub>0</sub> = 12.7 mm			short leads	longleads	SPQ
			C-tol = ±10%	C-tol = ±5%	SPQ	SPQ	SPQ	
last 5 digits of catalog number		SPQ	SPQ	SPQ				
<b>Pitch = 5.08 ±0.30 mm; d<sub>t</sub> = 0.50 ±0.05 mm</b>								
0.0039	2.5 × 6.5 × 7.2	0.25	35392	36392	2000	2000	1000	2000
0.0047			35472	36472				
0.0056			35562	36562				
0.0068			35682	36682				
0.0082			35822	36822				
0.01			35103	36103				
0.012			35123	36123				
0.015			35153	36153				
0.018	35183	36183						
0.022	3.5 × 8.0 × 7.2	0.35	35223	36223	1500	2000	1000	1500
0.027			35273	36273				
0.033			35333	36333				
0.039	4.5 × 9.0 × 7.2	0.45	35393	36393	1000	2000	1000	1000
0.047			35473	36473				
0.056			35563	36563				
0.068	6.0 × 11.0 × 7.2	0.60	35683	36683	750	2000	1000	1000
0.082			35823	36823				
0.1			35104	36104				

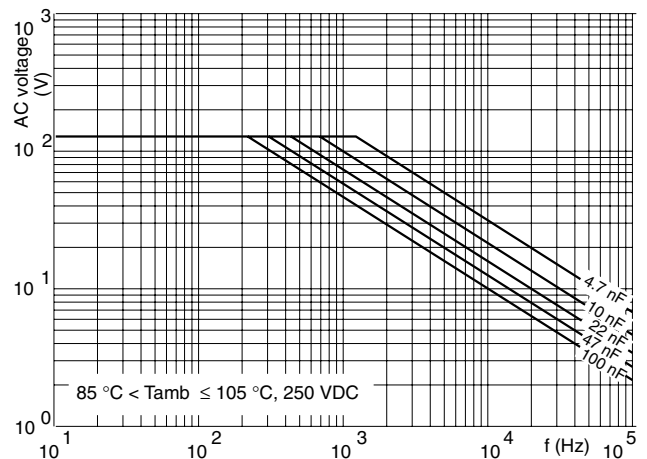
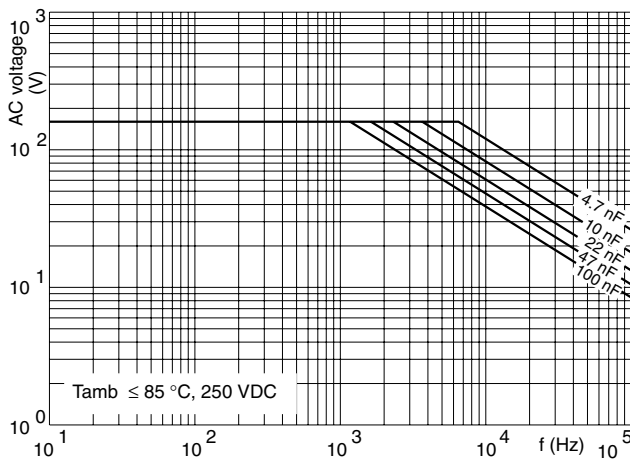
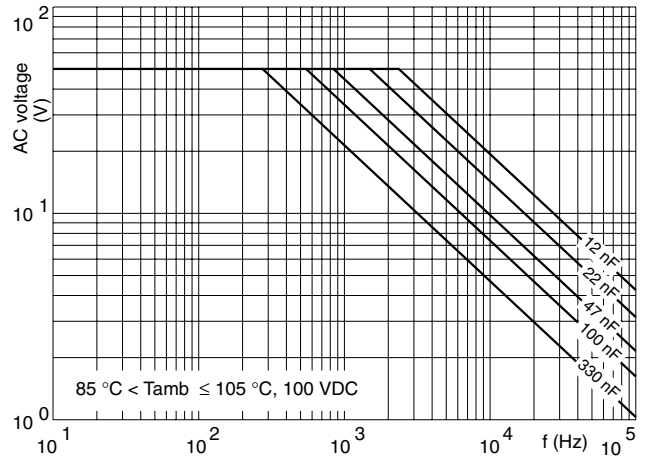
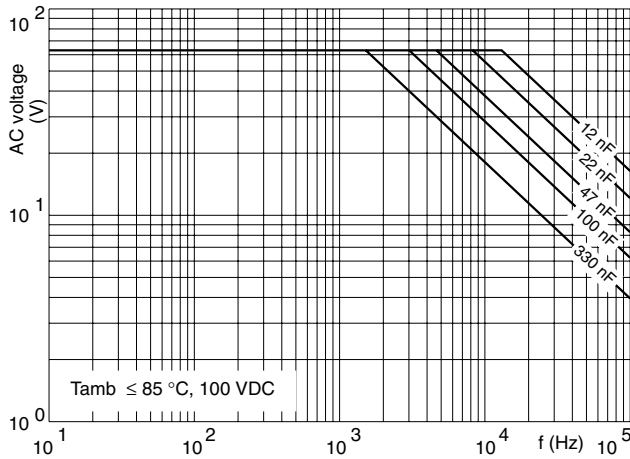
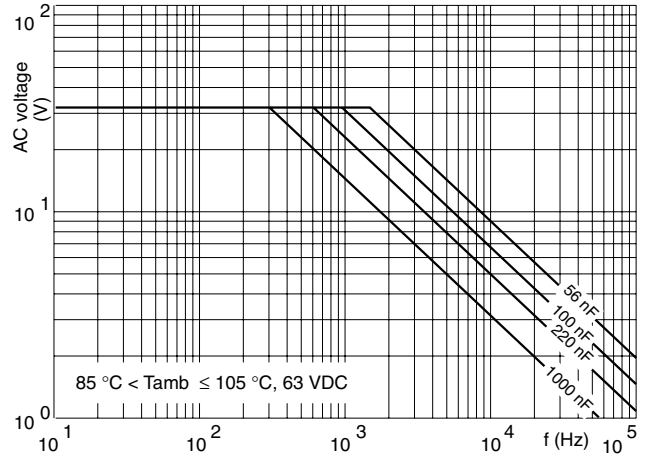
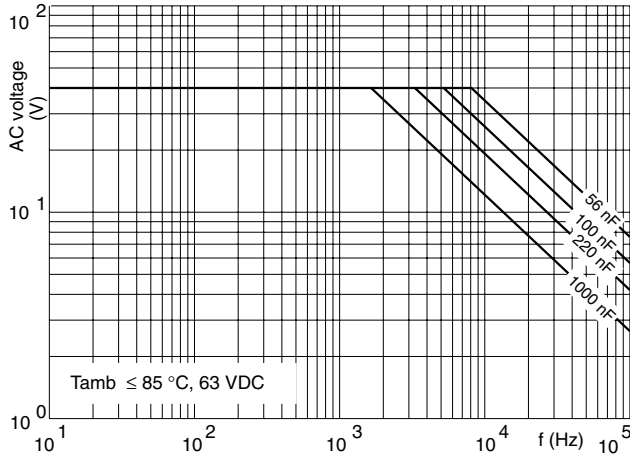
$U_{Rdc} = 400\text{ V}$ ;  $U_{Rac} = 220\text{ V}$

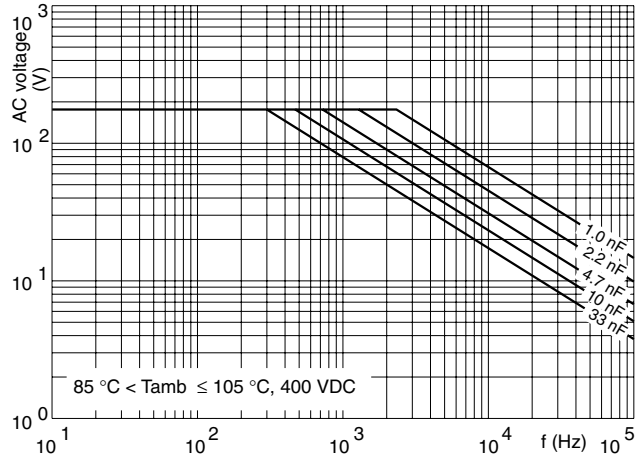
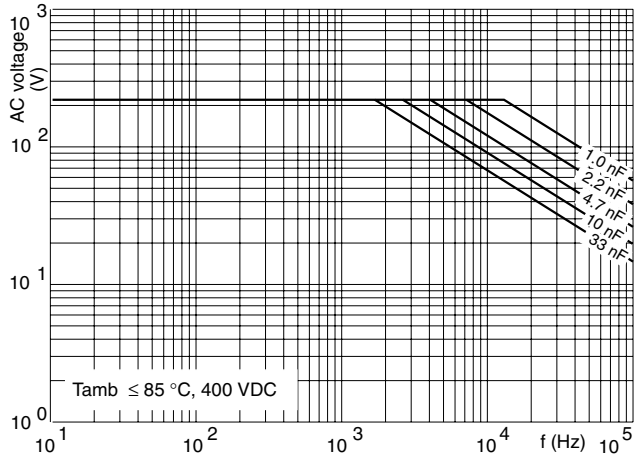
C ( $\mu\text{F}$ )	DIMENSIONS w × h × l (mm)	MASS (g)	CATALOG NUMBER 2222 370 ..... AND PACKAGING											
			AMMOPACK			LOOSE IN BOX		REEL						
			H = 18.5 mm; P <sub>0</sub> = 12.7 mm			short leads	long leads	SPQ						
			C-tol = ±10%	C-tol = ±5%	SPQ	SPQ	SPQ							
last 5 digits of catalog number		SPQ	SPQ	SPQ										
<b>Pitch = 5.08 ±0.30 mm; d<sub>t</sub> = 0.50 ±0.05 mm</b>														
0.001	2.5 × 6.5 × 7.2	0.25	65102	66102	2000	2000	1000	2000						
0.0012			65122	66122										
0.0015			65152	66152										
0.0018			65182	66182										
0.0022			65222	66222										
0.0027			65272	66272										
0.0033			65332	66332										
0.0039			65392	66392										
0.0047			65472	66472										
0.0056			65562	66562										
0.0068			65682	66682										
0.0082			65822	66822										
0.01			3.5 × 8.0 × 7.2	0.35					65103	66103	1500	2000	1000	1500
0.012									65123	66123				
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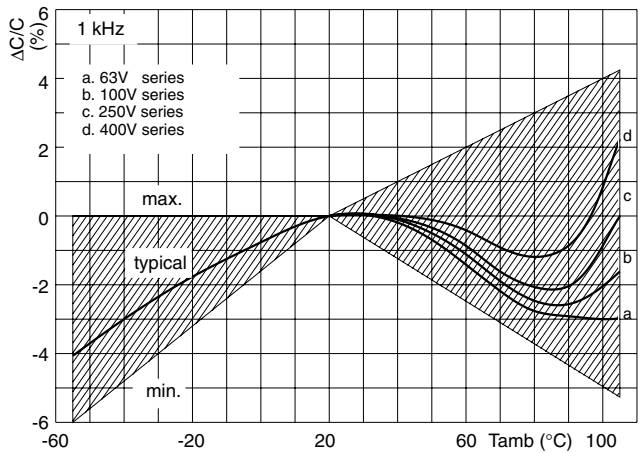
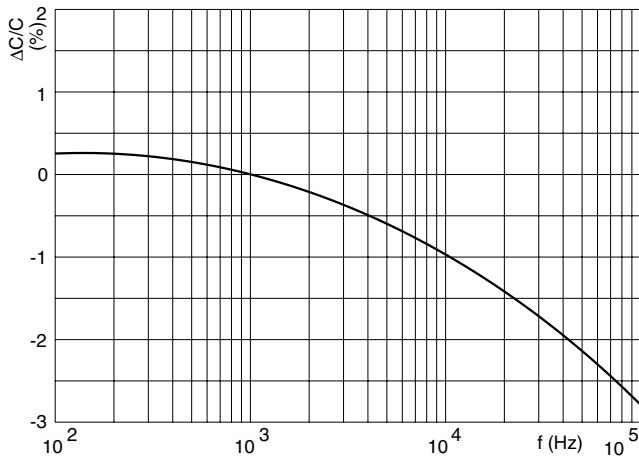
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MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY





**CAPACITANCE**



**IMPEDANCE**

