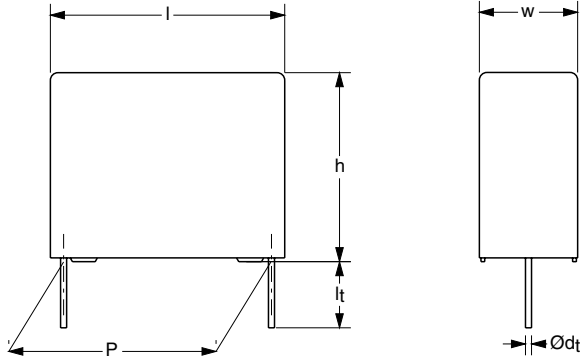


Metallized Polyester Film Capacitors

MKT Radial Potted Type



APPLICATIONS

Blocking and coupling. Bypass and energy reservoir

MARKING

C-value; tolerance; rated voltage; code for manufacturer; manufacturer's type designation; code for dielectric material; code for factory of origin, year and week of manufacturer

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 15 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

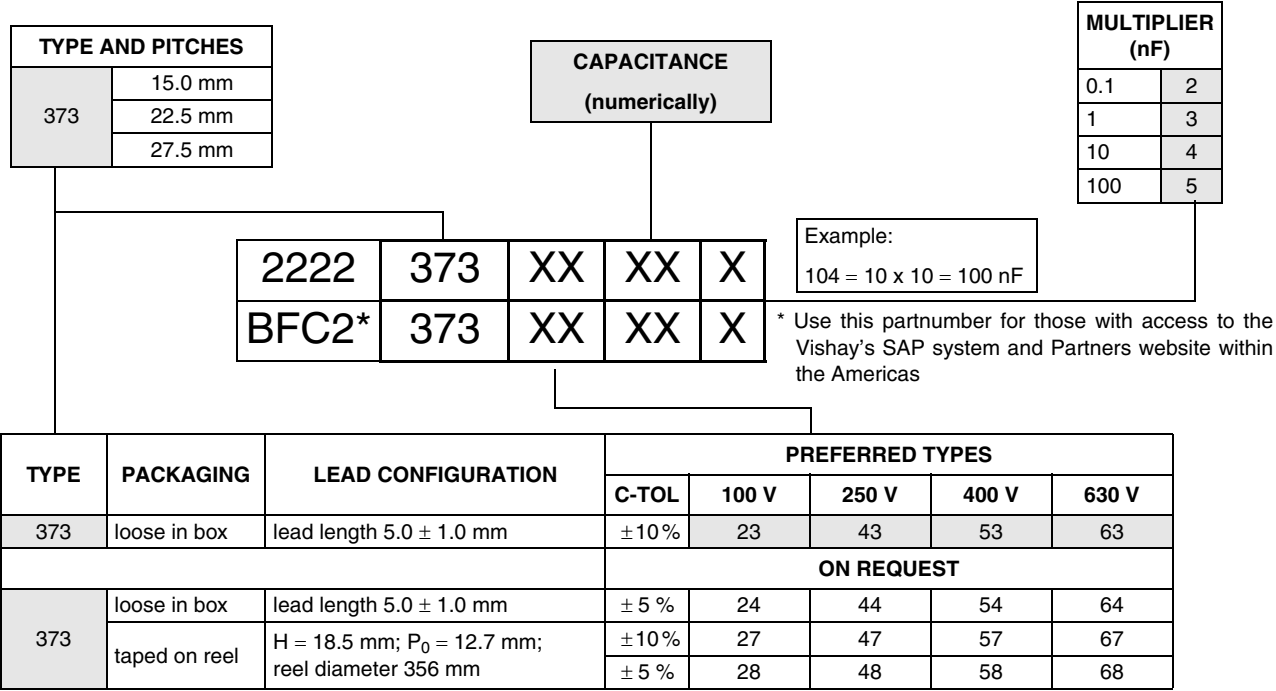
For more detailed data and test requirements contact:

filmcaps.roeselare@vishay.com



RoHS
COMPLIANT

COMPOSITION OF CATALOG NUMBER



SPECIFIC REFERENCE DATA

DESCRIPTION	VALUE																						
	at 100 V (DC)	at 250 V (DC)	at 400 V (DC)	at 630 V (DC)																			
Tangent of loss angle:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>at 1 kHz</th> <th>at 10 kHz</th> <th>at 100 kHz</th> </tr> </thead> <tbody> <tr> <td>0.33 μF < C ≤ 0.47 μF</td> <td>≤ 75 × 10⁻⁴</td> <td>≤ 130 × 10⁻⁴</td> <td>≤ 300 × 10⁻⁴</td> </tr> <tr> <td>0.47 μF < C ≤ 1.0 μF</td> <td>≤ 75 × 10⁻⁴</td> <td>≤ 130 × 10⁻⁴</td> <td>–</td> </tr> <tr> <td>1.0 μF < C ≤ 10 μF</td> <td>≤ 75 × 10⁻⁴</td> <td>≤ 150 × 10⁻⁴</td> <td>–</td> </tr> <tr> <td>C > 10 μF</td> <td>≤ 75 × 10⁻⁴</td> <td>–</td> <td>–</td> </tr> </tbody> </table>				at 1 kHz	at 10 kHz	at 100 kHz	0.33 μF < C ≤ 0.47 μF	≤ 75 × 10 ⁻⁴	≤ 130 × 10 ⁻⁴	≤ 300 × 10 ⁻⁴	0.47 μF < C ≤ 1.0 μF	≤ 75 × 10 ⁻⁴	≤ 130 × 10 ⁻⁴	–	1.0 μF < C ≤ 10 μF	≤ 75 × 10 ⁻⁴	≤ 150 × 10 ⁻⁴	–	C > 10 μF	≤ 75 × 10 ⁻⁴	–	–
at 1 kHz	at 10 kHz	at 100 kHz																					
0.33 μF < C ≤ 0.47 μF	≤ 75 × 10 ⁻⁴	≤ 130 × 10 ⁻⁴	≤ 300 × 10 ⁻⁴																				
0.47 μF < C ≤ 1.0 μF	≤ 75 × 10 ⁻⁴	≤ 130 × 10 ⁻⁴	–																				
1.0 μF < C ≤ 10 μF	≤ 75 × 10 ⁻⁴	≤ 150 × 10 ⁻⁴	–																				
C > 10 μF	≤ 75 × 10 ⁻⁴	–	–																				
Rated voltage pulse slope (dU/dt) _R :																							
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 minute	> 15000 MΩ	> 30000 MΩ	> 30000 MΩ																				
at 500 V; 1 minute				> 30000 MΩ																			
RC between leads, for C > 0.33 μF:																							
at 100 V; 1 minute	> 5000 s	> 10000 s	> 10000 s																				
at 500 V; 1 minute				> 10000 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																			



MKT 373 Compact Size

Metallized Polyester Film Capacitors Vishay BCcomponents
MKT Radial Potted Type

$U_{Rdc} = 100\text{ V}$; $U_{Rac} = 63\text{ V}$ (compact size)

C (μF)	DIMENSIONS $w \times h \times l$ (mm)	MASS (g)	CATALOG NUMBER 2222 373 AND PACKAGING		
			LOOSE IN BOX		REEL
			$l_t = 5.0 \pm 1.0\text{ mm}$		SPQ
			C-tol = $\pm 10\%$	SPQ	
last 5 digits of catalog number		SPQ			
Pitch = $15.0 \pm 0.4\text{ mm}$; $d_t = 0.60 \pm 0.06\text{ mm}$					
0.33	5.0 × 11.0 × 17.5	1.1	23334	1000	1100
0.39			23394		
0.47			23474		
0.56			23564		
0.68			23684		
0.82			23824		
1			23105		
1.2			23125		
1.5			23155		
1.8	23185				
2.2	6.0 × 12.0 × 17.5	1.4	23225	1000	900

$U_{Rdc} = 250\text{ V}$; $U_{Rac} = 160\text{ V}$ (compact size)

C (μF)	DIMENSIONS $w \times h \times l$ (mm)	MASS (g)	CATALOG NUMBER 2222 373 AND PACKAGING		
			LOOSE IN BOX		REEL
			$l_t = 5.0 \pm 1.0\text{ mm}$		SPQ
			C-tol = $\pm 10\%$	SPQ	
LAST 5 DIGITS OF CATALOG NUMBER		SPQ			
Pitch = $15.0 \pm 0.4\text{ mm}$; $d_t = 0.60 \pm 0.06\text{ mm}$					
0.15	5.0 × 11.0 × 17.5	1.1	43154	1000	1100
0.18			43184		
0.22			43224		
0.27			43274		
0.33			43334		
0.39	6.0 × 12.0 × 17.5	1.4	43394	1000	900
0.47			43474		
Pitch = $15.0 \pm 0.4\text{ mm}$; $d_t = 0.80 \pm 0.08\text{ mm}$					
0.56	7.0 × 13.5 × 17.5	1.9	43564	1000	800
0.68			43684		
0.82	8.5 × 15.0 × 17.5	2.6	43824	1000	650
1			43105		
1.2	10.0 × 16.5 × 17.5	3.1	43125	500	600
Pitch = $22.5 \pm 0.4\text{ mm}$; $d_t = 0.80 \pm 0.08\text{ mm}$					
1.5	8.5 × 18.0 × 26.0	4.4	43155	200	450
1.8			43185		
2.2	10.0 × 19.5 × 26.0	5.5	43225	200	350
2.7			43275		
Pitch = $27.5 \pm 0.4\text{ mm}$; $d_t = 0.80 \pm 0.08\text{ mm}$					
3.3	11.0 × 21.0 × 31.0	7.8	43335	100	
3.9	13.0 × 23.0 × 31.0	10.4	43395	100	
4.7			43475		

MKT 373 Compact Size



Vishay BCcomponents Metallized Polyester Film Capacitors
MKT Radial Potted Type

$U_{Rdc} = 400\text{ V}$; $U_{Rac} = 220\text{ V}$ (compact size)

C (μF)	DIMENSIONS w × h × l (mm)	MASS (g)	CATALOG NUMBER 2222 373 AND PACKAGING			
			LOOSE IN BOX		REEL	
			It = 5.0 ± 1.0 mm		SPQ	SPQ
			C-tol = ± 10 %			
LAST 5 DIGITS OF CATALOG NUMBER		SPQ	SPQ			
Pitch = 15.0 ± 0.4 mm; d_t = 0.60 ± 0.06 mm						
0.047	5.0 × 11.0 × 17.5	1.1	53473	1000	1100	
0.056			53563			
0.068			53683			
0.082			53823			
0.1			53104			
0.12			53124			
0.15			53154			
0.18	6.0 × 12.0 × 17.5	1.4	53184	1000	900	
0.22			53224			
Pitch = 15.0 ± 0.4 mm; d_t = 0.80 ± 0.08 mm						
0.27	7.0 × 13.5 × 17.5	1.9	53274	1000	800	
0.33			53334			
0.39	8.5 × 15.0 × 17.5	2.6	53394	1000	650	
0.47			53474			
0.56	10.0 × 16.5 × 17.5	3.2	53564	500	600	
Pitch = 22.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm						
0.68	8.5 × 18.0 × 26.0	4.4	53684	200	450	
0.82			53824			
1	10.0 × 19.5 × 26.0	5.5	53105	200	350	
1.2			53125			
Pitch = 27.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm						
1.5	11.0 × 21.0 × 31.0	7.8	53155	100		
1.8	13.0 × 23.0 × 31.0	10.5	53185	100		
2.2			53225			

$U_{Rdc} = 630\text{ V}$; $U_{Rac} = 250\text{ V}$ (compact size)

C (μF)	DIMENSIONS w × h × l (mm)	MASS (g)	CATALOG NUMBER 2222 373 AND PACKAGING			
			LOOSE IN BOX		REEL	
			It = 5.0 ± 1.0 mm		SPQ	SPQ
			C-tol = ± 10 %			
LAST 5 DIGITS OF CATALOG NUMBER		SPQ	SPQ			
Pitch = 15.0 ± 0.4 mm; d_t = 0.60 ± 0.06 mm						
0.047	5.0 × 11.0 × 17.5	1.1	63473	1000	1100	
0.056			63563			
0.068			63683			
0.082			63823			
Pitch = 15.0 ± 0.4 mm; d_t = 0.80 ± 0.08 mm						
0.1	7.0 × 13.5 × 17.5	1.9	63104	1000	800	
0.12			63124			
0.15	8.5 × 15.0 × 17.5	2.6	63154	1000	650	
0.18			63184			
0.22	10.0 × 16.5 × 17.5	3.2	63224	500	600	
Pitch = 22.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm						
0.27	8.5 × 18.0 × 26.0	4.4	63274	200	450	
0.33			63334			
0.39	10.0 × 19.5 × 26.0	5.5	63394	200	350	
0.47			63474			
Pitch = 27.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm						
0.56	11.0 × 21.0 × 31.0	7.8	63564	100		
0.68	13.0 × 23.0 × 31.0	10.5	63684	100		
0.82			63824			
1	15.0 × 25.0 × 31.0	7.8	63105	100		



MKT 373 Standard Size

Metallized Polyester Film Capacitors Vishay BCcomponents
MKT Radial Potted Type

$U_{Rdc} = 100\text{ V}$; $U_{Rac} = 63\text{ V}$ (standard size)

C (μF)	DIMENSIONS w × h × l (mm)	MASS (g)	CATALOG NUMBER 2222 373 AND PACKAGING			
			LOOSE IN BOX		REEL	
			It = 5.0 ± 1.0 mm		SPQ	SPQ
			C-tol = ± 10 %	LAST 5 DIGITS OF CATALOG NUMBER		
Pitch = 15.0 ± 0.4 mm; d_t = 0.60 ± 0.06 mm						
0.33 0.39 0.47 0.56 0.68	5.0 × 11.0 × 17.5	1.1	21334 21394 21474 21564 21684	1000	1100	
0.82 1	6.0 × 12.0 × 17.5	1.4	21824 21105	1000	900	
Pitch = 15.0 ± 0.4 mm; d_t = 0.80 ± 0.08 mm						
1.2 1.5	7.0 × 13.5 × 17.5	1.9	21125 21155	1000	800	
1.8 2.2	8.5 × 15.0 × 17.5	2.6	21185 21225	1000	650	
Pitch = 22.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm						
2.7 3.3	8.5 × 18.0 × 26.0	4.4	21275 21335	200	450	
3.9 4.7	10.0 × 19.5 × 26.0	5.5	21395 21475	200	350	
Pitch = 27.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm						
5.6 6.8	11.0 × 21.0 × 31.0	8.0	21565 21685	100		
8.2 10	13.0 × 23.0 × 31.0	10.5	21825 21106	100		
12 15	18.0 × 28.0 × 31.0	17.5	21126 21156	100		

$U_{Rdc} = 250\text{ V}$; $U_{Rac} = 160\text{ V}$ (standard size)

C (μF)	DIMENSIONS w × h × l (mm)	MASS (g)	CATALOG NUMBER 2222 373 AND PACKAGING			
			LOOSE IN BOX		REEL	
			It = 5.0 ± 1.0 mm		SPQ	SPQ
			C-tol = ± 10 %	LAST 5 DIGITS OF CATALOG NUMBER		
Pitch = 15.0 ± 0.4 mm; d_t = 0.60 ± 0.06 mm						
0.15 0.18 0.22	5.0 × 11.0 × 17.5	1.1	41154 41184 41224	1000	1100	
0.27 0.33 0.39 0.47	6.0 × 12.0 × 17.5	1.4	41274 41334 41394 41474	1000	900	
Pitch = 15.0 ± 0.4 mm; d_t = 0.80 ± 0.08 mm						
0.56 0.68	7.0 × 13.5 × 17.5	1.9	41564 41684	1000	800	

MKT 373 Standard Size

Vishay BCcomponents Metallized Polyester Film Capacitors
MKT Radial Potted Type



C (μ F)	DIMENSIONS w × h × l (mm)	MASS (g)	CATALOG NUMBER 2222 373 AND PACKAGING				
			LOOSE IN BOX		REEL		
			It = 5.0 ± 1.0 mm			SPQ	SPQ
			C-tol = ± 10 %	LAST 5 DIGITS OF CATALOG NUMBER	SPQ		
0.82 1	8.5 × 15.0 × 17.5	2.6	41824 41105			1000	650
Pitch = 22.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm							
1.2 1.5	8.5 × 18.0 × 26.0	4.4	41125 41155	200	450		
1.8 2.2	10.0 × 19.5 × 26.0	5.5	41185 41225	200	350		
Pitch = 27.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm							
2.7 3.3	13.0 × 23.0 × 31.0	10.4	41275 41335	100			
3.9 4.7	15.0 × 25.0 × 31.0	12.5	41395 41475	100			

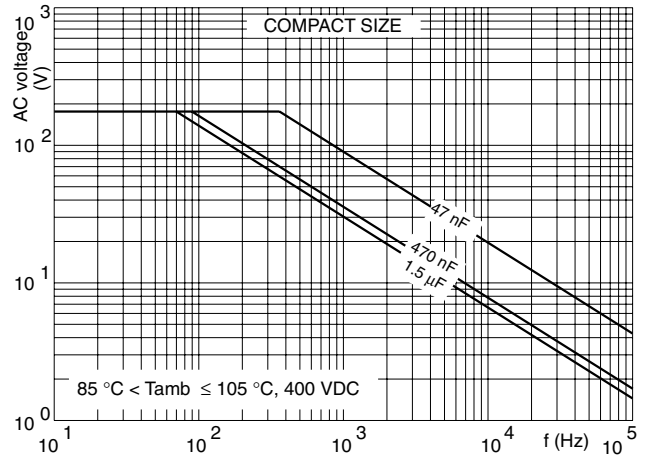
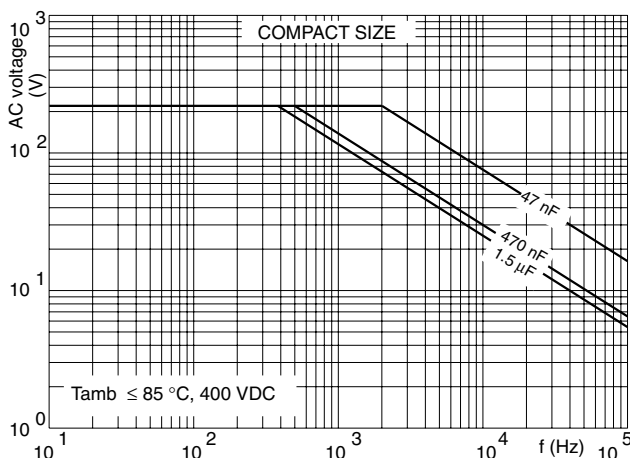
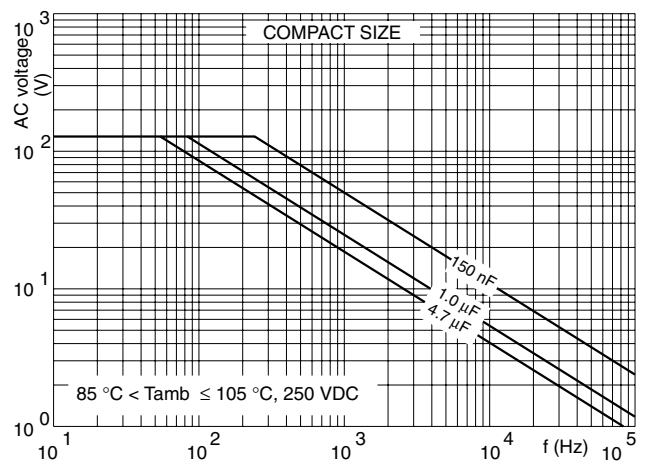
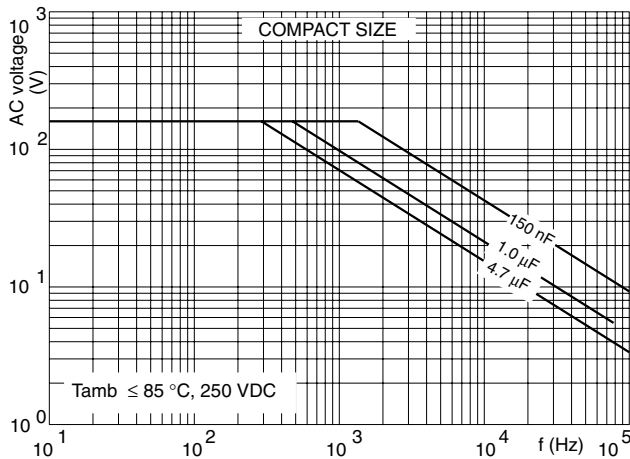
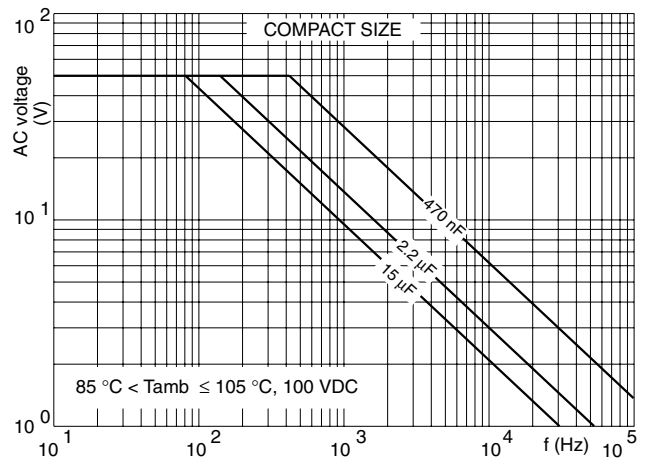
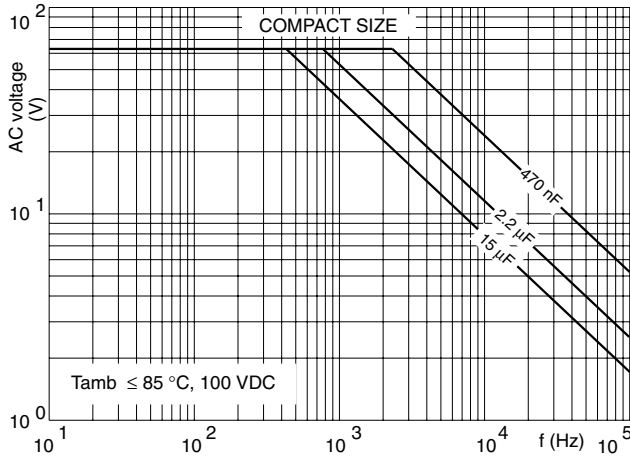
$U_{Rdc} = 400$ V; $U_{Rac} = 220$ V (standard size)

C (μ F)	DIMENSIONS w × h × l (mm)	MASS (g)	CATALOG NUMBER 2222 373 AND PACKAGING				
			LOOSE IN BOX		REEL		
			It = 5.0 ± 1.0 mm			SPQ	SPQ
			C-tol = ± 10 %	LAST 5 DIGITS OF CATALOG NUMBER	SPQ		
Pitch = 15.0 ± 0.4 mm; d_t = 0.60 ± 0.06 mm							
0.047 0.056 0.068 0.082 0.1	5.0 × 11.0 × 17.5	1.1	51473 51563 51683 51823 51104	1000	1100		
0.12 0.15	6.0 × 12.0 × 17.5	1.4	51124 51154	1000	900		
Pitch = 15.0 ± 0.4 mm; d_t = 0.80 ± 0.08 mm							
0.18 0.22	7.0 × 13.5 × 17.5	1.9	51184 51224	1000	800		
0.27 0.33	8.5 × 15.0 × 17.5	2.6	51274 51334	1000	650		
Pitch = 22.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm							
0.39 0.47	8.5 × 18.0 × 26.0	4.4	51394 51474	200	450		
0.56 0.68	10.0 × 19.5 × 26.0	4.4 5.5	51564 51684	200	350		
Pitch = 27.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm							
0.82 1	11.0 × 21.0 × 31.0	7.8	51824 51105	100			
1.2 1.5	15.0 × 25.0 × 31.0	12.8	51125 51155	100			

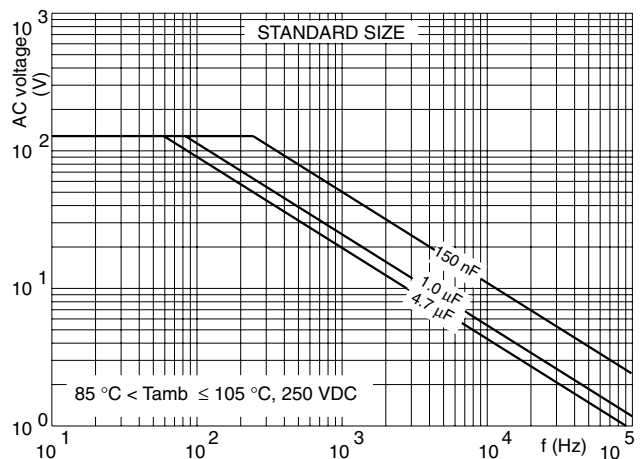
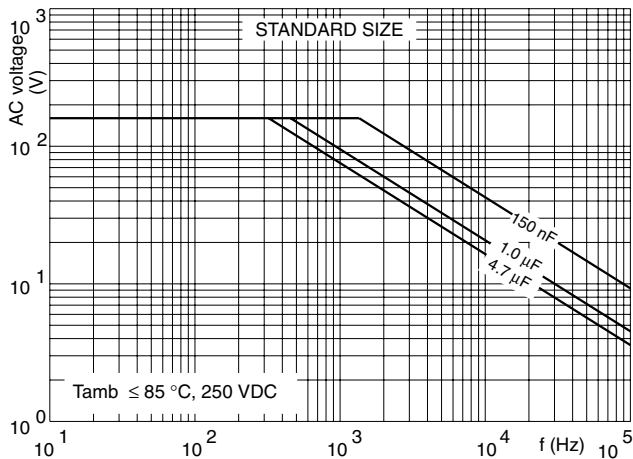
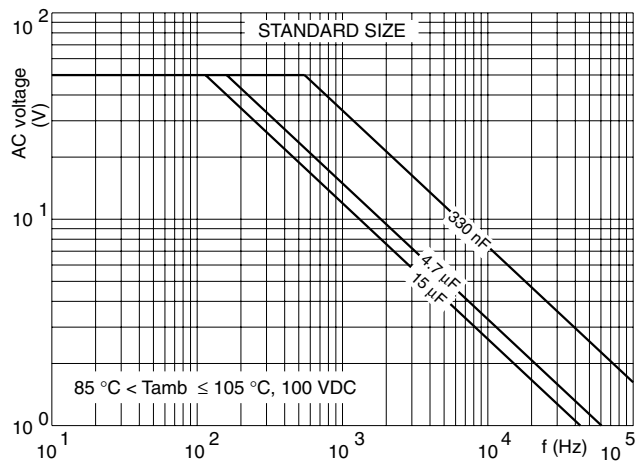
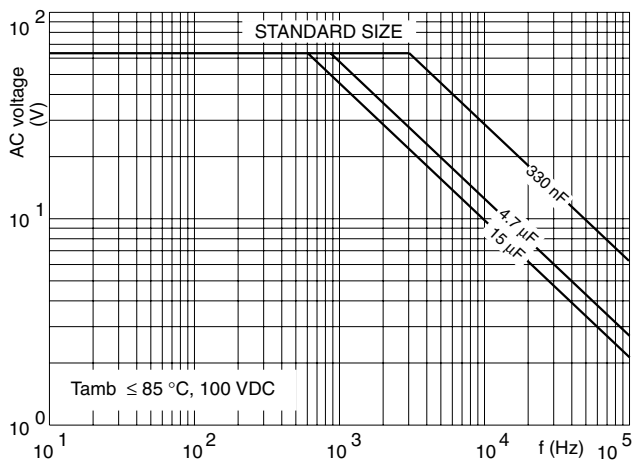
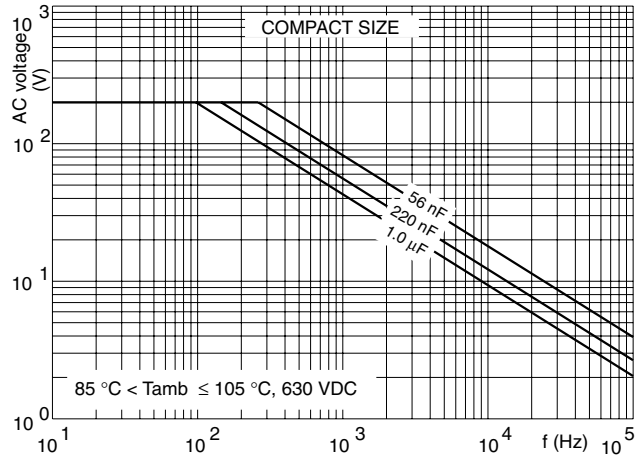
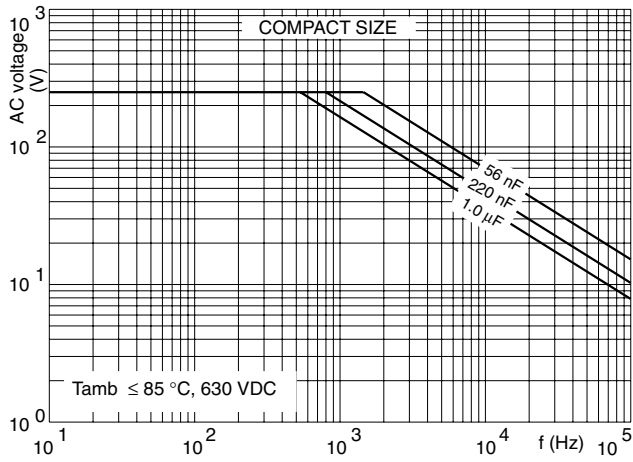


Metallized Polyester Film Capacitors Vishay BCcomponents
MKT Radial Potted Type

MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY

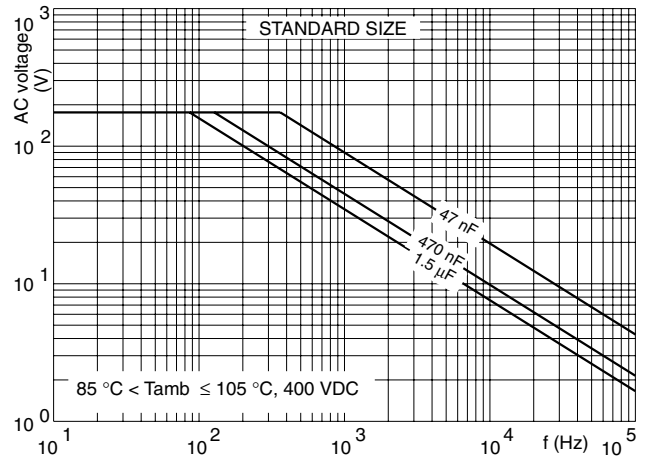
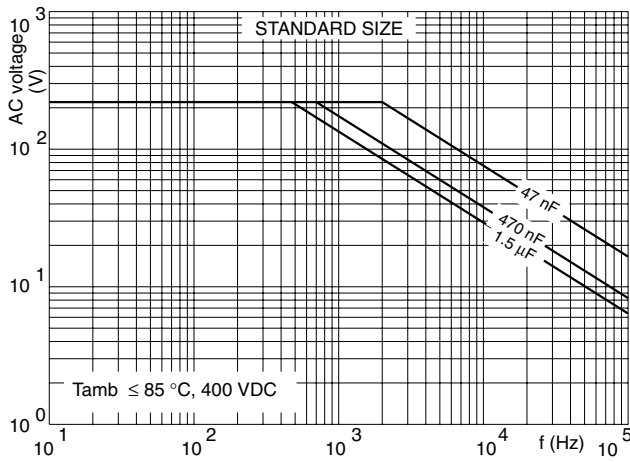


Vishay BCcomponents Metallized Polyester Film Capacitors
MKT Radial Potted Type

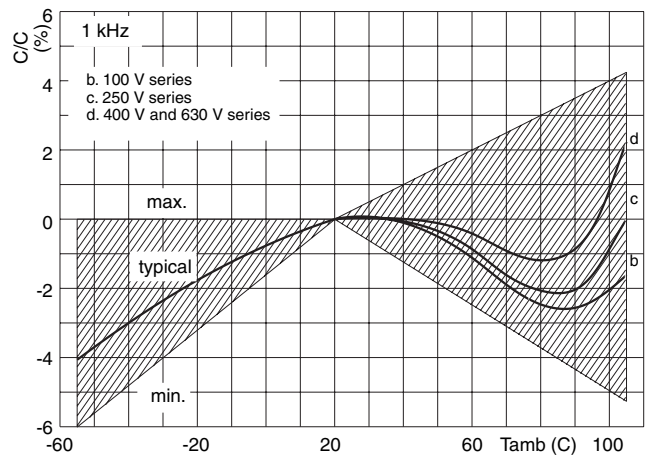
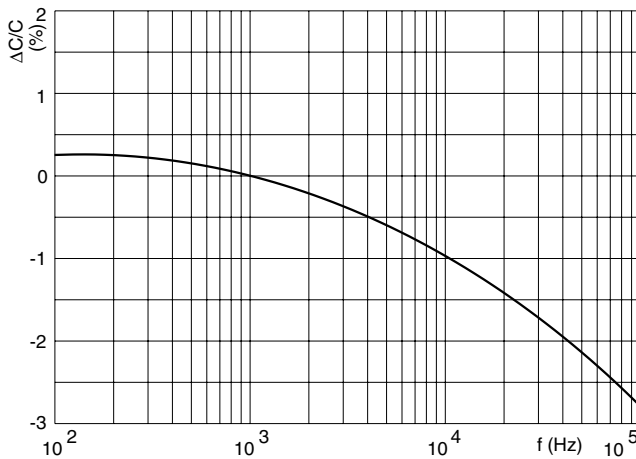




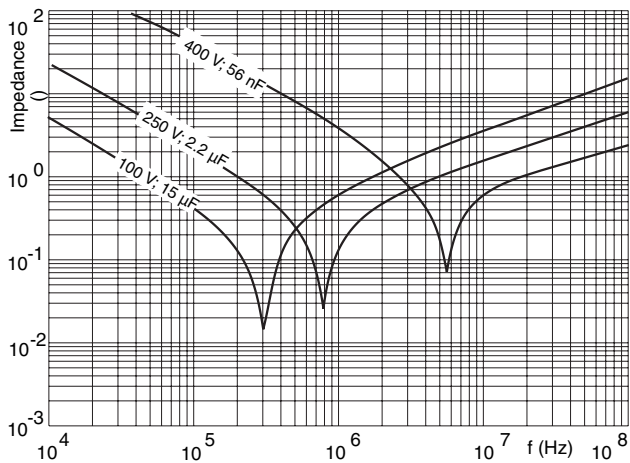
Metallized Polyester Film Capacitors Vishay BCcomponents
MKT Radial Potted Type



CAPACITANCE



IMPEDANCE





Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.