

Metallized Polyester Film Capacitors MKT Radial Epoxy Lacquered Type

APPLICATIONS

Blocking and coupling. Bypass and energy reservoir

MARKING

C-value; tolerance; rated voltage

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 1.0 μF

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

CLIMATIC CATEGORY

55/105/56

RATED TEMPERATURE

85 °C

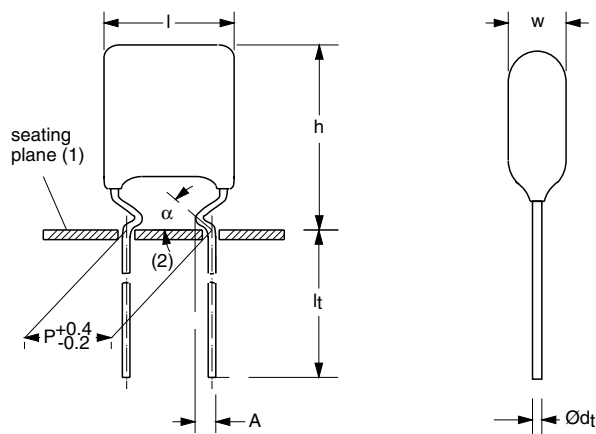
MAXIMUM APPLICATION TEMPERATURE

105 °C

REFERENCE SPECIFICATIONS

IEC 60384-2

KINKED LEADS



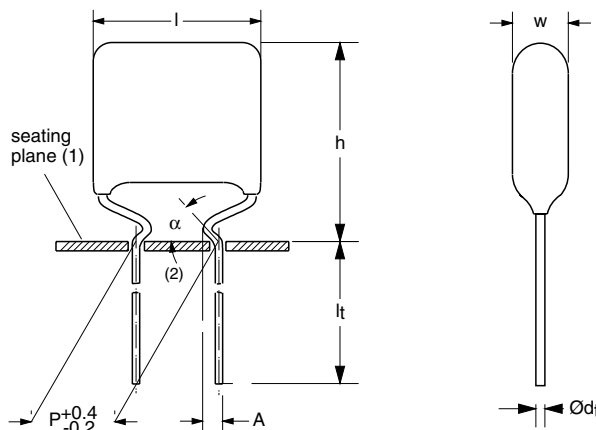
Dimensions in mm.

(1) Hole $\varnothing 1.0$ for $d_t = 0.5$ mm.

(2) $0 \leq \alpha < 50^\circ$.

(3) $A = 1.7 \pm 0.3$ mm.

BENT BACK LEADS



Dimensions in mm.

(1) Hole $\varnothing 1.0$ for $d_t = 0.5$ mm.

(2) $0 \leq \alpha < 50^\circ$.

(3) $A = 1.7 \pm 0.3$ mm.

PERFORMANCE GRADE

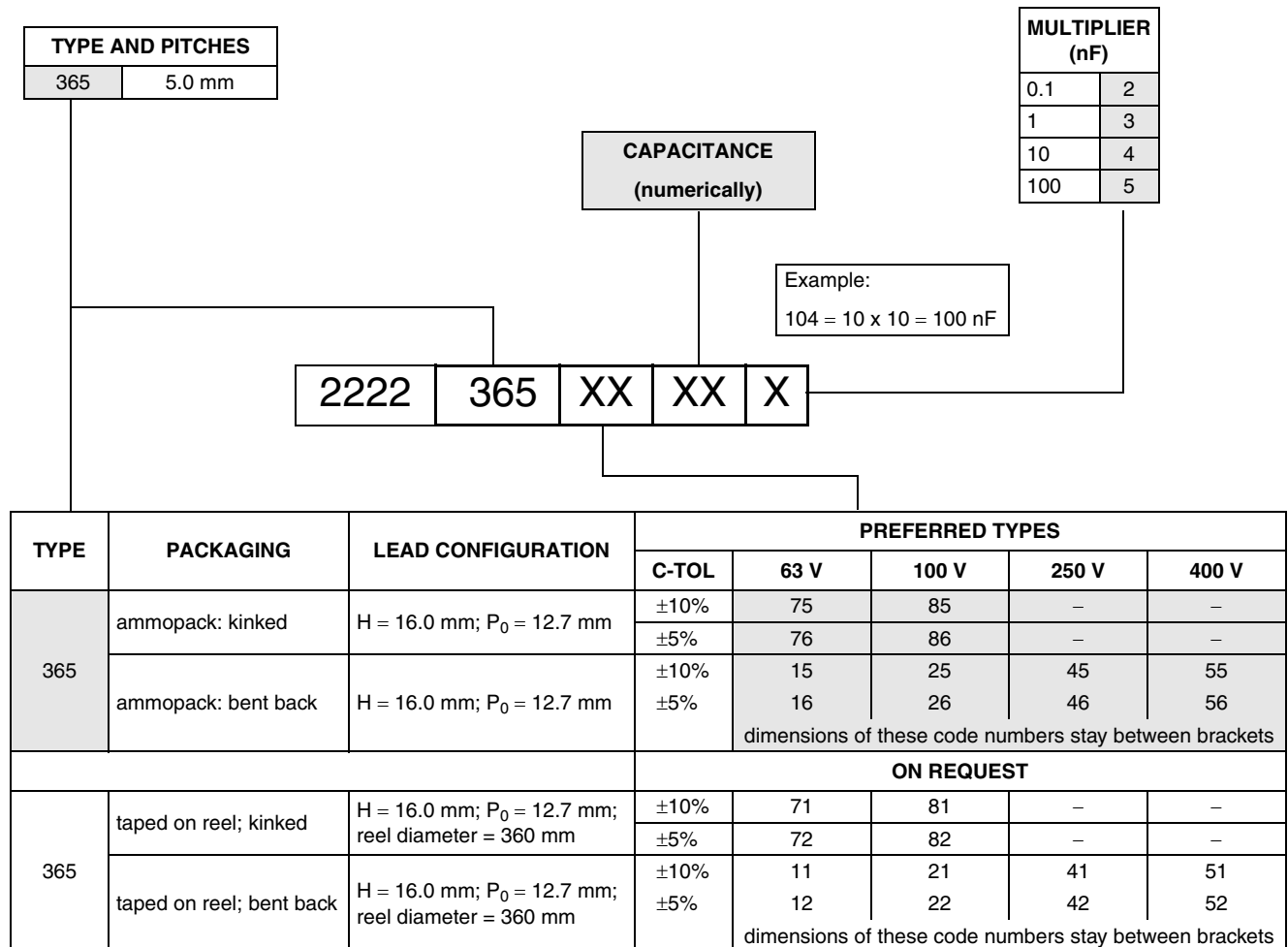
Grade 1 (long life)

FEATURES

Available taped and loose in box

DETAIL SPECIFICATION

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

**COMPOSITION OF CATALOG NUMBER****SPECIFIC REFERENCE DATA**

DESCRIPTION	VALUE			
Tangent of loss angle: C ≤ 0.47 μF 0.47 μF < C ≤ 1.0 μF	at 1 kHz	at 10 kHz	at 100 kHz	
	≤75 × 10 ⁻⁴	≤130 × 10 ⁻⁴	≤225 × 10 ⁻⁴	
	≤75 × 10 ⁻⁴	≤130 × 10 ⁻⁴	–	
Rated voltage pulse slope (dU/dt) _R	at 63 V (DC)	at 100 V (DC)	at 250 V (DC)	at 400 V (DC)
	110 V/μs	110 V/μs	130 V/μs	170 V/μs
R between leads, for C ≤ 0.33 μF: at 10 V; 1 minute at 100 V; 1 minute	>15000 MΩ	>15000 MΩ	>30000 MΩ	>30000 MΩ
RC between leads, for C > 0.33 μF at 10 V; 1 minute	>5000 s	>5000 s		
R between interconnecting leads and casing; 100 V; 1 minute	>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

$U_{Rdc} = 63 \text{ V}$; $U_{Rac} = 40 \text{ V}$ (kinked leads)

C (μF)	DIMENSIONS $w_{\max} \times h_{\max} \times l_{\max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 365 AND PACKAGING			
			AMMOPACK; H = 16.0 mm			REEL
			C-tol = ±10%	C-tol = ±5%	SPQ	SPQ
			last 5 digits of catalog number	last 5 digits of catalog number		
Pitch = 5.0 +0.4/−0.2 mm; d _t = 0.50 ±0.05 mm						
0.047	4.0 × 12.5 × 7.3	0.3	75473	76473	1500	1500
0.056			75563	76563		
0.068			75683	76683		
0.082			75823	76823		
0.1			75104	76104		
0.12			75124	76124		
0.15	4.0 × 13.0 × 7.3	0.3	75154	76154	1500	1500
0.18	4.0 × 13.5 × 7.3	0.4	75184	76184	1000	1000
0.22	4.2 × 13.5 × 7.3	0.4	75224	76224	1000	1000
0.27	4.5 × 14.0 × 7.3	0.4	75274	76274	1000	1000
0.33	4.5 × 14.5 × 7.3	0.4	75334	76334	1000	1000
0.39			75394	76394		
0.47	4.5 × 15.5 × 7.3	0.4	75474	76474	1000	1000
0.56	5.0 × 14.0 × 7.3	0.4	75564	76564	1000	1000
0.68	5.5 × 14.5 × 7.3	0.4	75684	76684	1000	1000
0.82	5.5 × 15.0 × 7.3	0.5	75824	76824	1000	1000
1.0	5.5 × 15.5 × 7.3	0.5	75105	76105	1000	1000

 $U_{Rdc} = 63 \text{ V}$; $U_{Rac} = 40 \text{ V}$ (bent back leads)

C (μF)	DIMENSIONS $w_{\max} \times h_{\max} \times l_{\max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 365 AND PACKAGING			
			AMMOPACK; H = 16.0 mm			REEL
			C-tol = ±10%	C-tol = ±5%	SPQ	SPQ
			last 5 digits of catalog number	last 5 digits of catalog number		
Pitch = 5.0 +0.4/−0.2 mm; d _t = 0.60 ±0.06 mm						
0.12	4.0 × 13.5 × 10.0	0.4	15124	16124	1500	1500
0.15			15154	16154		
0.18			15184	16184		
0.22			15224	16224		
0.27	4.5 × 14.0 × 10.0	0.5	15274	16274	1000	1000
0.33	5.0 × 14.5 × 10.0	0.6	15334	16334	1000	1000
0.39			15394	16394		
0.47	5.5 × 15.0 × 10.0	0.7	15474	16474	1000	1000
0.56			15564	16564		
0.68			15684	16684		
0.82			15824	16824		
1.0			15105	16105		



Metallized Polyester Film Capacitors Vishay BCcomponents

MKT Radial Epoxy Lacquered Type

U_{Rdc} = 100 V; U_{Rac} = 63 V (kinked leads)

C (μF)	DIMENSIONS $w_{\max} \times h_{\max} \times l_{\max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 365 AND PACKAGING			
			AMMOPACK; H = 16.0 mm			REEL
			C-tol = ±10%	C-tol = ±5%	SPQ	SPQ
			last 5 digits of catalog number	last 5 digits of catalog number		
Pitch = 5.0 +0.4/-0.2 mm; d _t = 0.50 ±0.05 mm						
0.01	4.0 × 12.5 × 7.3	0.3	85103	86103	1500	1500
0.012			85123	86123		
0.015			85153	86153		
0.018			85183	86183		
0.022			85223	86223		
0.027			85273	86273		
0.033			85333	86333		
0.039			85393	86393		
0.047	4.5 × 12.5 × 7.3	0.3	85473	86473	1500	1500
0.056			85563	86563		
0.068			85683	86683		
0.082	4.5 × 13.0 × 7.3	0.3	85823	86823	1500	1500
0.1	4.5 × 13.5 × 7.3	0.4	85104	86104	1000	1000
0.12			85124	86124		
0.15			85154	86154		
0.18			85184	86184		
0.22	4.5 × 13.5 × 7.3	0.4	85224	86224	1000	1000
0.27	4.5 × 14.0 × 7.3	0.4	85274	86274	1000	1000

U_{Rdc} = 100 V; U_{Rac} = 63 V (bent back leads)

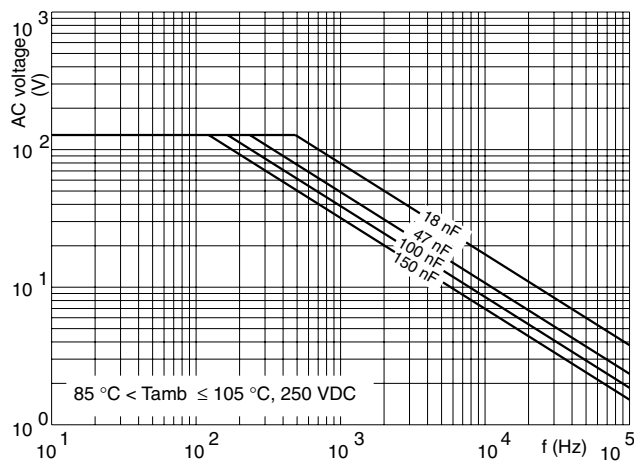
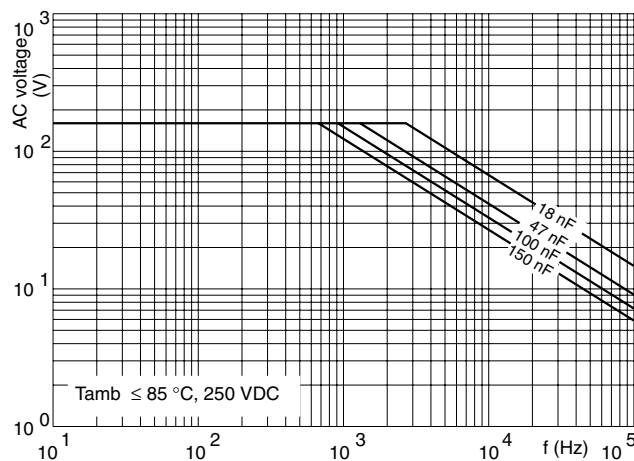
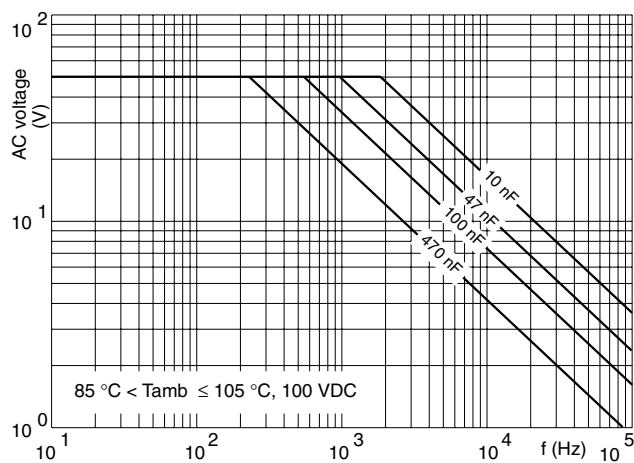
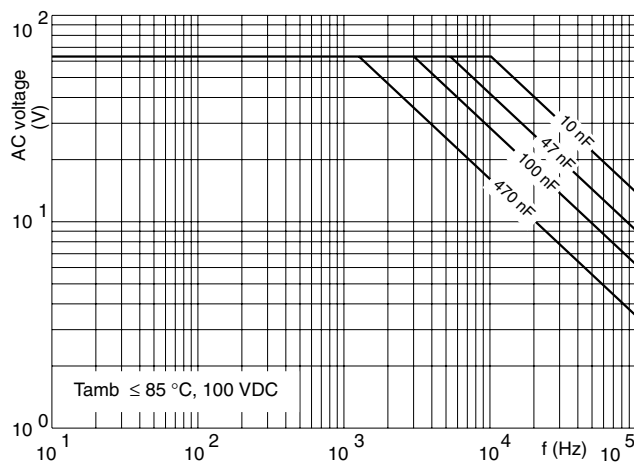
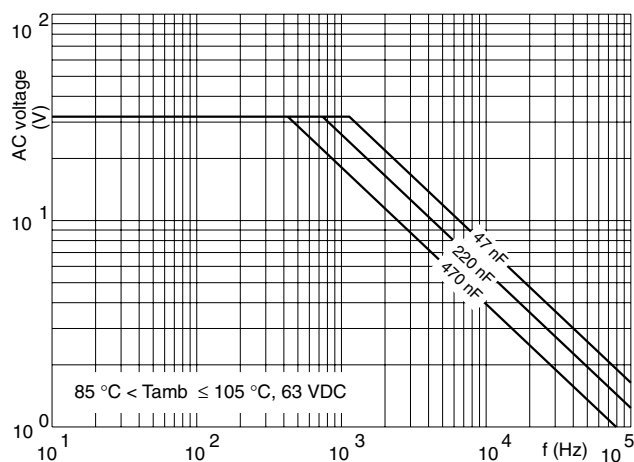
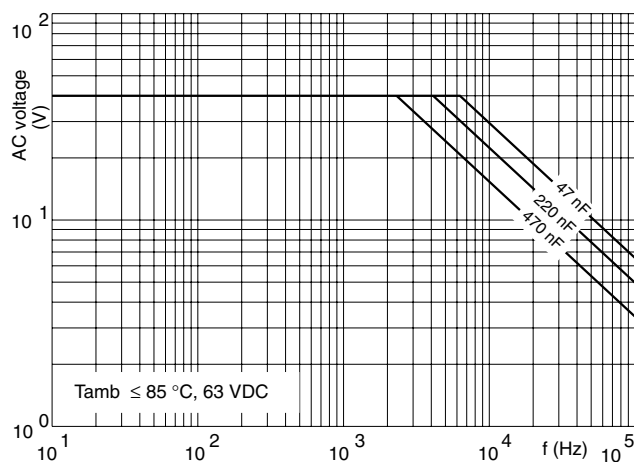
C (μF)	DIMENSIONS $w_{\max} \times h_{\max} \times l_{\max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 365 AND PACKAGING			
			AMMOPACK; H = 16.0 mm			REEL
			C-tol = ±10%	C-tol = ±5%	SPQ	SPQ
			last 5 digits of catalog number	last 5 digits of catalog number		
Pitch = 5.0 +0.4/−0.2 mm; d _t = 0.60 ±0.06 mm						
0.039 0.047 0.056 0.068 0.082 0.1	4.0 × 13.5 × 10.0	0.4	25393	26393	1500	1500
0.12			25473	26473		
0.15			25563	26563		
0.18			25683	26683		
0.22			25823	26823		
0.27			25104	26104		
0.12	4.5 × 14.0 × 10.5	0.5	25124	26124	1000	1000
0.15 0.18	5.0 × 14.5 × 10.5	0.6	25154	26154	1000	1000
0.22			25184	26184		
0.27	5.5 × 15.0 × 10.5	0.7	25224	26224	1000	1000
0.33 0.39 0.47	6.0 × 15.5 × 10.5	0.7	25274	26274	1000	1000
0.47			25334	26334		
			25394	26394		
			25474	26474		

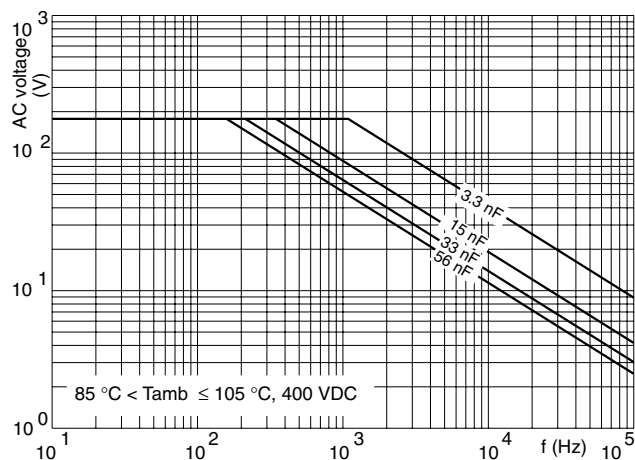
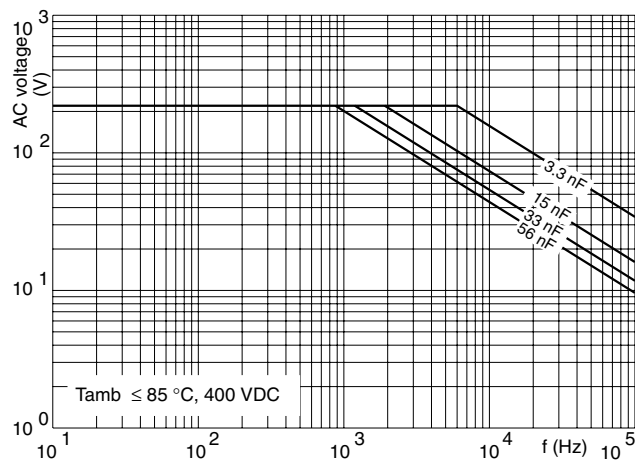
U_{Rdc} = 250 V; U_{Rac} = 160 V (bent back leads)

C (μ F)	DIMENSIONS $w_{\max} \times h_{\max} \times l_{\max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 365 AND PACKAGING			
			AMMOPACK; H = 16.0 mm			REEL
			C-tol = $\pm 10\%$	C-tol = $\pm 5\%$	SPQ	SPQ
			last 5 digits of catalog number	last 5 digits of catalog number		
Pitch = 5.0 +0.4/−0.2 mm; d _t = 0.60 ±0.06 mm						
0.018	4.0 × 13.5 × 10.0	0.4	45183	46183	1500	1500
0.022			45223	46223		
0.027			45273	46273		
0.033			45333	46333		
0.039			45393	46393		
0.047			45473	46473		
0.056			45563	46563		
0.068	4.5 × 14.0 × 10.0	0.5	45683	46683	1250	1000
0.082	4.5 × 13.0 × 10.0	0.5	45823	46823	1250	1250
0.1	5.0 × 13.5 × 10.0	0.6	45104	46104	1000	1250
0.12	5.5 × 14.0 × 10.0	0.6	45124	46124	1000	1000
0.15	5.5 × 15.5 × 10.0	0.7	45154	46154	1000	1000

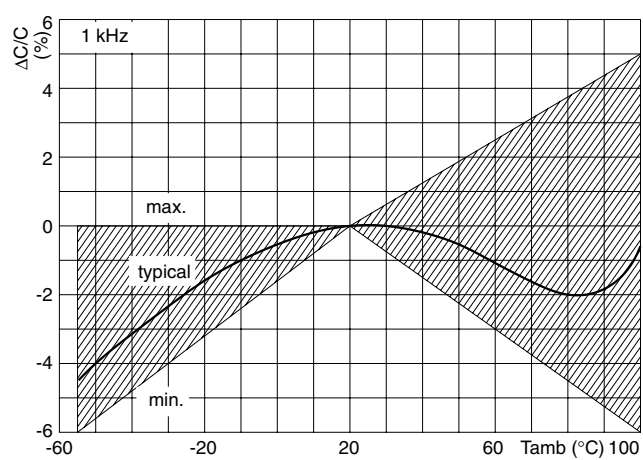
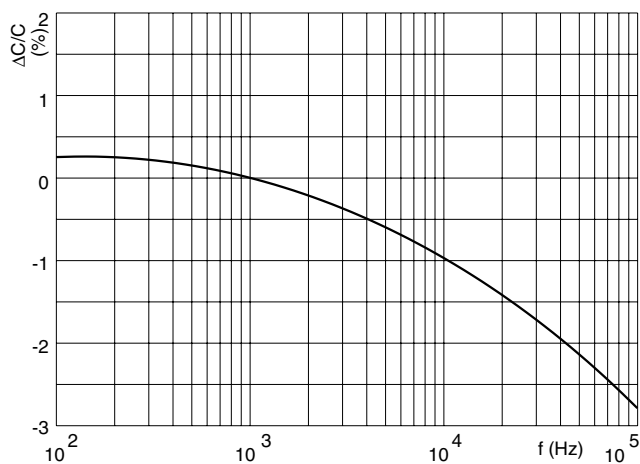
U_{Rdc} = 400 V; U_{Rac} = 220 V (bent back leads)

C (μ F)	DIMENSIONS $w_{\max} \times h_{\max} \times l_{\max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 365 AND PACKAGING			
			AMMOPACK; H = 16.0 mm			REEL
			C-tol = $\pm 10\%$	C-tol = $\pm 5\%$	SPQ	SPQ
			last 5 digits of catalog number	last 5 digits of catalog number		
Pitch = 5.0 +0.4/−0.2 mm; d _t = 0.60 ±0.06 mm						
0.0033	4.0 × 13.5 × 10.0	0.4	55332	56332	1500	1500
0.0039			55392	56392		
0.0047			55472	56472		
0.0056			55562	56562		
0.0068			55682	56682		
0.0082			55822	56822		
0.01			55103	56103		
0.012			55123	56123		
0.015			55153	56153		
0.018	4.5 × 13.0 × 10.0	0.6	55183	56183	1250	1250
0.022	5.0 × 13.5 × 10.0	0.7	55223	56223	1000	1250
0.027	4.0 × 12.5 × 10.0	0.4	55273	56273	1500	1500
0.033	4.5 × 13.0 × 10.0	0.5	55333	56333	1250	1250
0.039	5.0 × 13.5 × 10.0	0.5	55393	56393	1000	1250
0.047		0.6	55473	56473		
0.056	5.5 × 14.0 × 10.0	0.7	55563	56563	1000	1000

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



CAPACITANCE



IMPEDANCE

