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)

0.0033 to 1.0 µF

CAPACITANCE TOLERANCE

±10%; ±5%

RATED (DC) VOLTAGE

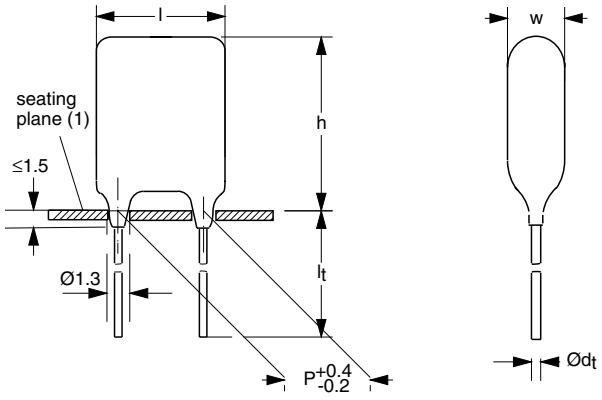
63 V; 100 V; 250 V; 400 V

RATED (AC) VOLTAGE

40 V; 63 V; 160 V; 220 V

CLIMATIC CATEGORY

55/105/56



Dimensions in mm.
(1) Hole Ø1.0 for d_t = 0.5 mm.

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

DETAIL SPECIFICATION

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

COMPOSITION OF CATALOG NUMBER

TYPE AND PITCHES	
367	5.0 and 7.5 mm

CAPACITANCE (numerically)

MULTIPLIER (nF)	
0.1	2
1	3
10	4
100	5

Example:
104 = 10 x 10 = 100 nF

2222	367	XX	XX	X

TYPE	PACKAGING	LEAD CONFIGURATION	ON REQUEST				
			C-TOL	63 V	100 V	250 V	400 V
Pitch = 5.0 mm							
367	ammopack	straight leads	±10%	73	83		
			±5%	77	87		
	loose in box	straight leads 4.0 +1.0/–0.5 mm	±10%	75	85	–	–
			±5%	76	86	–	–
		straight leads 22.0 ±4.0 mm	±10%	71	81	–	–
			±5%	72	82	–	–
Pitch = 7.5 mm			**ON REQUEST**				
367	loose in box	straight leads 4.0 +1.0/–0.5 mm	±10%	15	25	45	55
			±5%	16	26	46	56
		straight leads 22.0 ±4.0 mm	±10%	11	21	41	51
			±5%	12	22	42	52
	ammopack	straight leads	±10%	13	23	43	53
			±5%	17	27	47	57

SPECIFIC REFERENCE DATA

DESCRIPTION	VALUE			
Tangent of loss angle:	at 1 kHz	at 10 kHz		at 100 kHz
$C \leq 0.47\ \mu F$	$\leq 75 \times 10^{-4}$	$\leq 130 \times 10^{-4}$		$\leq 225 \times 10^{-4}$
$0.47\ \mu F < C \leq 1.0\ \mu F$	$\leq 75 \times 10^{-4}$	$\leq 130 \times 10^{-4}$		–
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 $C \leq 0.33\ \mu F$:				
at 10 V; 1 minute	>15000 MΩ			
at 100 V; 1 minute		>15000 MΩ	>30000 MΩ	>30000 MΩ
RC between leads, for $C > 0.33\ \mu F$ 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 V; U_{Rac} = 40 V

C (µF)	DIMENSIONS $w_{max} \times h_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 367 ..... AND PACKAGING						
			LOOSE IN BOX				AMMOPACK		
			l_t = 4.0 +1.0/–0.5 mm			l_t = 22.0 ±4.0 mm	H = 18.5 mm		
			C-tol = ±10%	C-tol = ±5%			C-tol = ±10%	C-tol = ±5%	
			last 5 digits of catalog number	last 5 digits of catalog number	SPQ	SPQ	last 5 digits of catalog number	last 5 digits of catalog number	SPQ
Pitch = 5.0 +0.4/–0.2 mm; d_t = 0.50 ±0.05 mm									
0.047	4.0 × 9.5 × 7.3	0.3	75473	76473	1000	1000	73473	77473	1500
0.056			75563	76563			73563	77563	
0.068			75683	76683			73683	77683	
0.082			75823	76823			73823	77823	
0.1			75104	76104			73104	77104	
0.12			75124	76124			73124	77124	
0.15	4.0 × 9.5 × 7.3	0.3	75154	76154	1000	1000	73154	77154	1500
0.18	4.0 × 9.5 × 7.3	0.4	75184	76184	1000	1000	73184	77184	1500
0.22	4.2 × 9.7 × 7.3	0.4	75224	76224	1000	1000	73224	77224	1000
0.27	4.5 × 10.0 × 7.3	0.4	75274	76274	1000	1000	73274	77274	1000
0.33	4.5 × 11.0 × 7.3	0.4	75334	76334	1000	1000	73334	77334	1000
0.39			75394	76394			73394	77394	
0.47	4.5 × 11.0 × 7.3	0.4	75474	76474	1000	1000	73474	77474	1000
0.56	5.0 × 10.5 × 7.3	0.4	75564	76564	1000	1000	73564	77564	1000
0.68	5.5 × 11.0 × 7.3	0.4	75684	76684	1000	1000	73684	77684	1000
0.82	5.5 × 12.0 × 7.3	0.5	75824	76824	1000	1000	73824	77824	1000
1.0	5.5 × 12.0 × 7.3	0.5	75105	76105	1000	1000	73105	77105	1000
Pitch = 7.5 +0.4/–0.2 mm; d_t = 0.60 ±0.06 mm									
0.12	4.0 × 9.5 × 10.0	0.4	15124	16124	1000	1000	13124	17124	1500
0.15			15154	16154			13154	17154	
0.18			15184	16184			13184	17184	
0.22			15224	16224			13224	17224	
0.27	4.5 × 10.0 × 10.5	0.5	15274	16274	1000	1000	13274	17274	1000
0.33	5.0 × 10.5 × 10.5	0.5	15334	16334	1000	1000	13334	17334	1000
0.39		0.6	15394	16394			13394	17394	
0.47	5.5 × 11.0 × 10.5	0.7	15474	16474	1000	1000	13474	17474	1000
0.56	5.5 × 12.0 × 10.5	0.8	15564	16564	1000	1000	13564	17564	1000
0.68			15684	16684			13684	17684	
0.82			15824	16824			13824	17824	
1.0			15105	16105			13105	17105	

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

C (µF)	DIMENSIONS $w_{max} \times h_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 367 ..... AND PACKAGING						
			LOOSE IN BOX				AMMOPACK		
			l_t = 4.0 +1.0/–0.5 mm			l_t = 22.0 ±4.0 mm	H = 18.5 mm		
			C-tol = ±10%	C-tol = ±5%	SPQ	SPQ	C-tol = ±10%	C-tol = ±5%	SPQ
			last 5 digits of catalog number	last 5 digits of catalog number			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 × 9.5 × 7.3	0.3	85103	86103	1000	1000	83103	87103	1500
0.012			85123	86123			83123	87123	
0.015			85153	86153			83153	87153	
0.018			85183	86183			83183	87183	
0.022			85223	86223			83223	87223	
0.027			85273	86273			83273	87273	
0.033			85333	86333			83333	87333	
0.039			85393	86393			83393	87393	
0.047	4.5 × 10.0 × 7.3	0.3	85473	86473	1000	1000	83473	87473	1500
0.056			85563	86563			83563	87563	
0.068			85683	86683			83683	87683	
0.082	4.5 × 10.0 × 7.3	0.3	85823	86823	1000	1000	83823	87823	1500
0.1	4.5 × 10.0 × 7.3	0.4	85104	86104	1000	1000	83104	87104	1500
0.12			85124	86124			83124	87124	
0.15			85154	86154			83154	87154	
0.18			85184	86184			83184	87184	
0.22	4.5 × 10.0 × 7.3	0.4	85224	86224	1000	1000	83224	87224	1000
0.27	4.5 × 10.0 × 7.3	0.4	85274	86274	1000	1000	83274	87274	1000
Pitch = 7.5 +0.4/–0.2 mm; d_t = 0.60 ±0.06 mm									
0.039	4.0 × 9.5 × 10.0	0.4	25393	26393	1000	1000	23393	27393	1500
0.047			25473	26473			23473	27473	
0.056			25563	26563			23563	27563	
0.068			25683	26683			23683	27683	
0.082			25823	26823			23823	27823	
0.1	4.0 × 9.5 × 10.0	0.4	25104	26104	1000	1000	23104	27104	1500
0.12	4.5 × 10.0 × 10.5	0.5	25124	26124	1000	1000	23124	27124	1000
0.15	5.0 × 10.5 × 10.5	0.5	25154	26154	1000	1000	23154	27154	1000
0.18		0.6	25184	26184			23184	27184	
0.22	5.5 × 11.5 × 10.5	0.7	25224	26224	1000	1000	23224	27224	1000
0.27	6.0 × 12.5 × 10.5	0.7	25274	26274	1000	1000	23274	27274	1000
0.33			25334	26334			23334	27334	
0.39			25394	26394			23394	27394	
0.47			25474	26474			23474	27474	

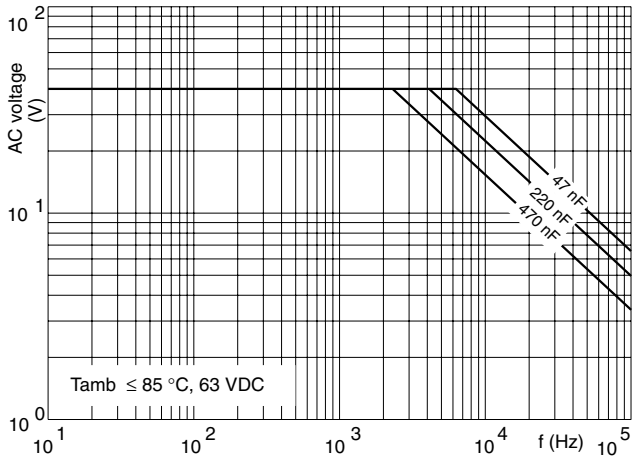
U_{Rdc} = 250 V; U_{Rac} = 16 V

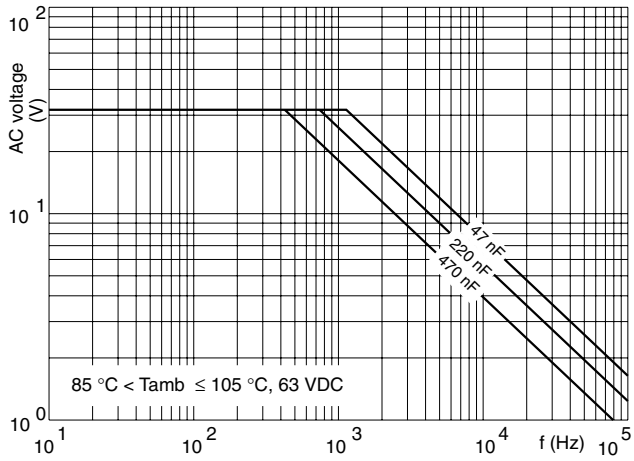
C (µF)	DIMENSIONS $w_{max} \times h_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 367 ..... AND PACKAGING						
			LOOSE IN BOX				AMMOPACK		
			l_t = 4.0 +1.0/–0.5 mm			l_t = 22.0 ±4.0 mm	H = 18.5 mm		
			C-tol = ±10%	C-tol = ±5%	SPQ	SPQ	C-tol = ±10%	C-tol = ±5%	SPQ
			last 5 digits of catalog number	last 5 digits of catalog number			last 5 digits of catalog number	last 5 digits of catalog number	
Pitch = 7.5 +0.4/–0.2 mm; d_t = 0.60 ±0.06 mm									
0.018	4.0 × 9.5 × 10.0	0.4	45183	46183	1000	1000	43183	47183	1500
0.022			45223	46223			43223	47223	
0.027			45273	46273			43273	47273	
0.033			45333	46333			43333	47333	
0.039			45393	46393			43393	47393	
0.047			45473	46473			43473	47473	
0.056	4.0 × 9.5 × 10.0	0.7	45563	46563	1000	1000	43563	47563	1500
0.068	4.5 × 10.0 × 10.0	0.7	45683	46683	1000	1000	43683	47683	1000
0.082	4.5 × 10.0 × 10.0	0.5	45823	46823	1000	1000	43823	47823	1000
0.1	5.0 × 10.5 × 10.0	0.6	45104	46104	1000	1000	43104	47104	1000
0.12	5.5 × 11.0 × 10.0	0.6	45124	46124	1000	1000	43124	47124	1000
0.15	5.5 × 12.5 × 10.0	0.7	45154	46154	1000	1000	43154	47154	1000

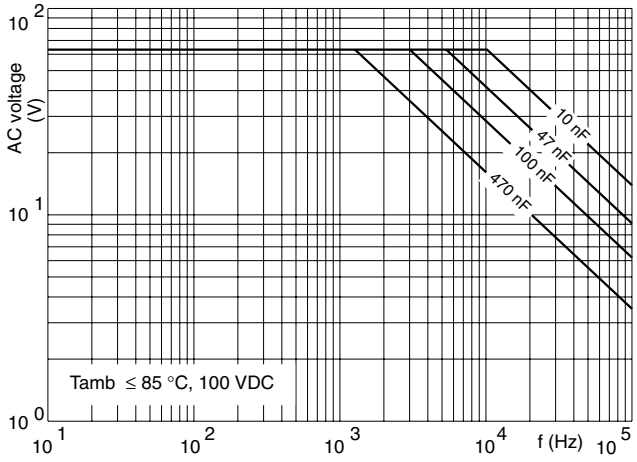
U_{Rdc} = 400 V; U_{Rac} = 220 V

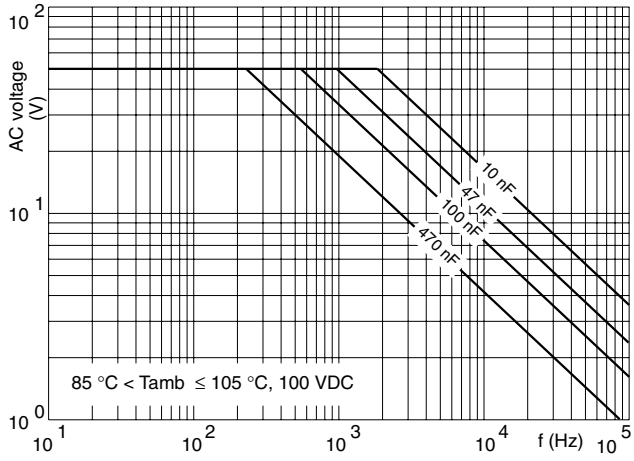
C (µF)	DIMENSIONS $w_{max} \times h_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 367 ..... AND PACKAGING						
			LOOSE IN BOX				AMMOPACK		
			l_t = 4.0 +1.0/–0.5 mm			l_t = 22.0 ±4.0 mm	H = 18.5 mm		
			C-tol = ±10%	C-tol = ±5%	SPQ	SPQ	C-tol = ±10%	C-tol = ±5%	SPQ
			last 5 digits of catalog number	last 5 digits of catalog number			last 5 digits of catalog number	last 5 digits of catalog number	
Pitch = 7.5 +0.4/–0.2 mm; d_t = 0.60 ±0.06 mm									
0.0033	4.0 × 9.5 × 10.0	0.4	55332	56332	1000	1000	53332	57332	1500
0.0039			55392	56392			53392	57392	
0.0047			55472	56472			53472	57472	
0.0056			55562	56562			53562	57562	
0.0068			55682	56682			53682	57682	
0.0082			55822	56822			53822	57822	
0.01			55103	56103			53103	57103	
0.012			55123	56123			53123	57123	
0.015			55153	56153			53153	57153	
0.018	4.5 × 10.0 × 10.0	0.6	55183	56183	1000	1000	53183	57183	1000
0.022	5.0 × 10.5 × 10.0	0.7	55223	56223	1000	1000	53223	57223	1000
0.027	4.0 × 9.5 × 10.0	0.4	55273	56273	1000	1000	53273	57273	1500
0.033	4.5 × 10.0 × 10.0	0.5	55333	56333	1000	1000	53333	57333	1000
0.039	5.0 × 10.5 × 10.0	0.5	55393	56393	1000	1000	53393	57393	1000
0.047	5.0 × 10.5 × 10.0	0.6	55473	56473	1000	1000	53473	57473	1000
0.056	5.5 × 11.0 × 10.0	0.7	55563	56563	1000	1000	53563	57563	1000

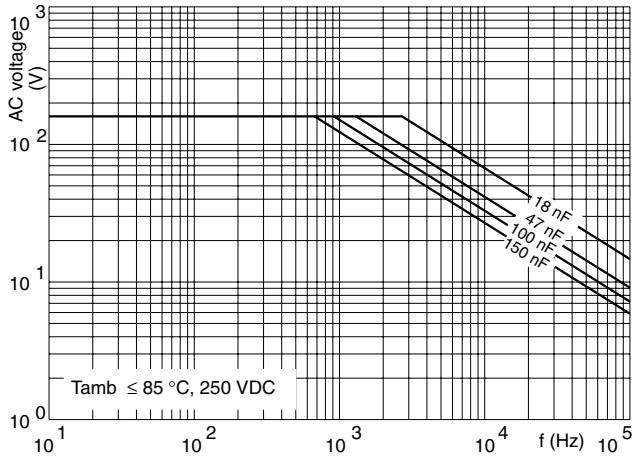
MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY

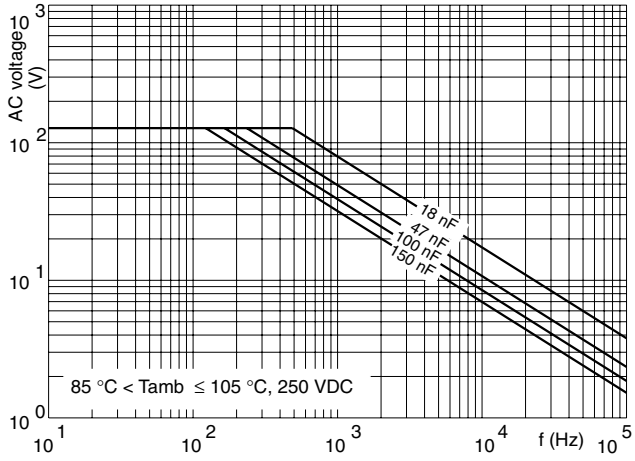


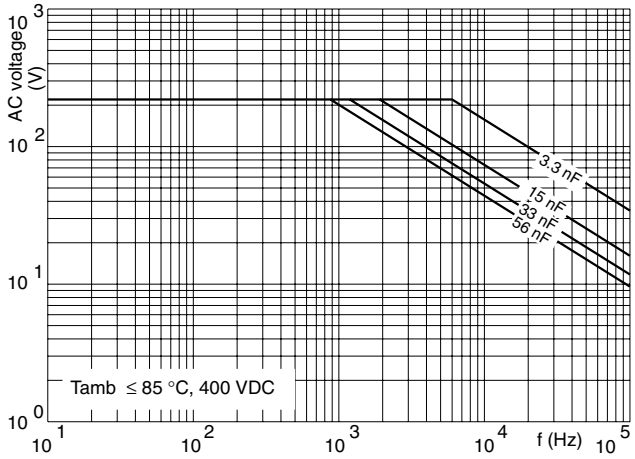


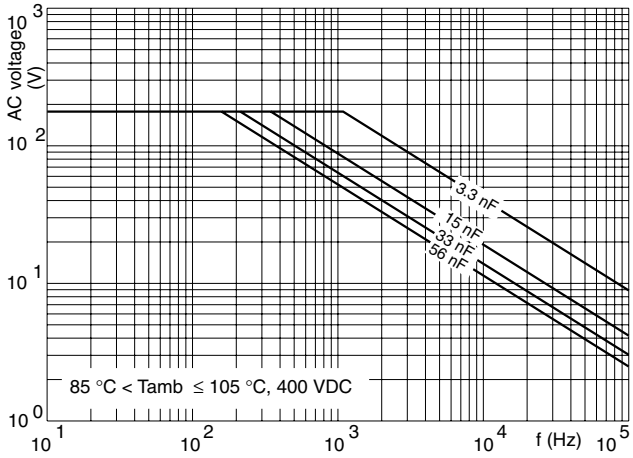




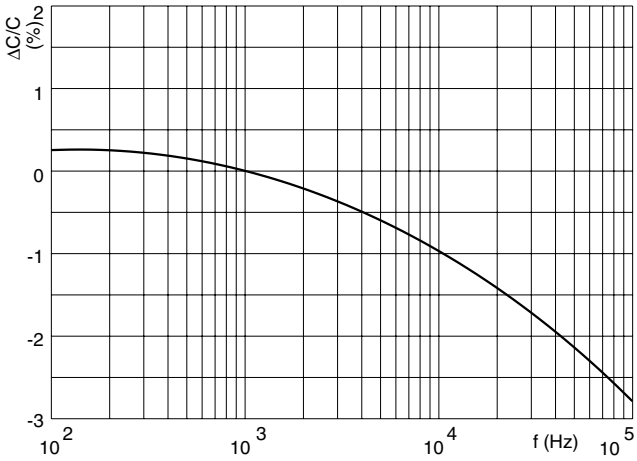


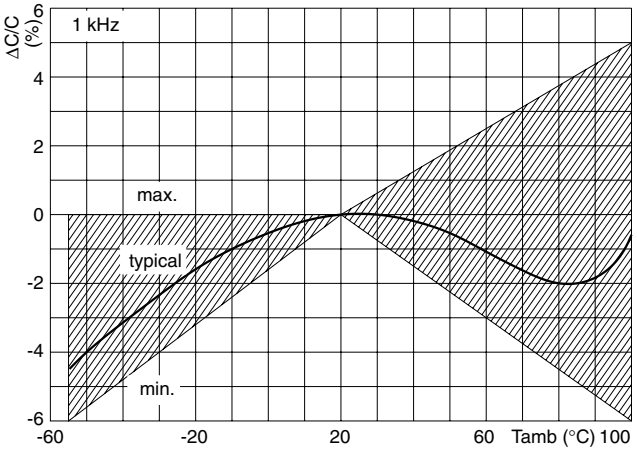






CAPACITANCE





IMPEDANCE