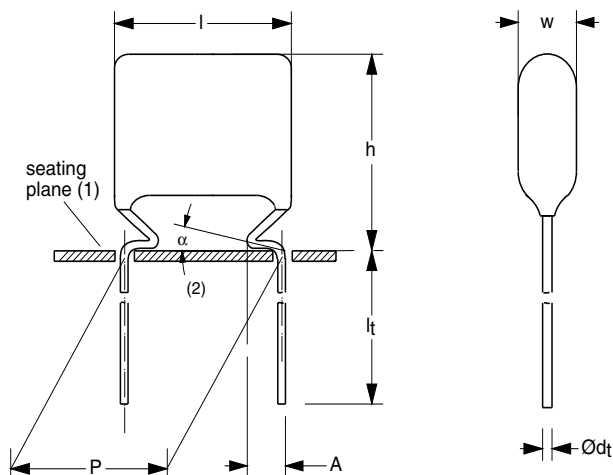


Metallized Polyester Film Capacitors MKT Radial Epoxy Lacquered Type



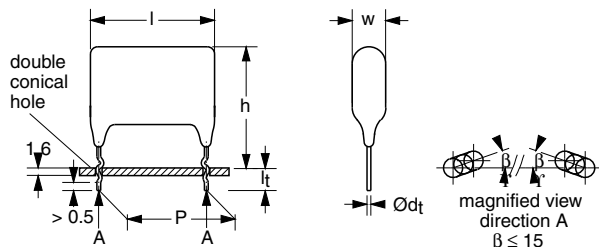
Dimensions in mm

(1) Hole $\varnothing$ 1.0 for $d_t = 0.6$ mm
Hole $\varnothing$ 1.3 for $d_t = 0.8$ mm

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

(3) $A = 2.0 + 1.0/-0.5$ mm (pitch = 10.0 mm)

$A = 2.5 + 1.4/-0.5$ mm (pitch = 15.0 mm, 22.5 mm and 27.5 mm)



Dimensions in mm

APPLICATIONS

Blocking and coupling. Bypass and energy reservoir

MARKING

C-value; tolerance; rated voltage

DIELECTRIC

Polyester film

ELECTRODES

Vacuum deposited aluminium

FEATURES

Available taped on reel and loose in box

- Material categorization:
for definitions of compliance please see
www.vishay.com/doc?99912

COATING

Flame retardant epoxy material (UL-class 94 V-0)

CONSTRUCTION

Wound mono construction

LEADS

Tinned wire

CAPACITANCE RANGE (E12 SERIES)

0.001 to 1.0 μ F

CAPACITANCE TOLERANCE

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

RATED (DC) VOLTAGE

63 V; 100 V; 250 V; 400 V; 630 V

RATED (AC) VOLTAGE

40 V; 63 V; 160 V; 220 V; 250 V

CLIMATIC CATEGORY

55/105/56

RATED TEMPERATURE

85 $^\circ$ C

MAXIMUM APPLICATION TEMPERATURE

105 $^\circ$ C

REFERENCE SPECIFICATIONS

IEC 60384-2

PERFORMANCE GRADE

Grade 1 (long life)

DETAIL SPECIFICATION

For more detailed data and test requirements see "Type detail specification HQN-384-02/101"



RoHS
COMPLIANT



COMPOSITION OF CATALOG NUMBER

TYPE AND PITCHES		CAPACITANCE (numerically)					MULTIPLIER (nF)					
368	10.0 mm	2222	368	XX	XX	X	0.1	2				
	15.0 mm						1	3				
	22.5 mm						10	4				
	27.5 mm						100	5				
		Example: 104 = 10 x 10 = 100 nF										
		* Use this partnumber for those with access to the Vishay's SAP system and Partners web-site within the Americas										
		BFC2*	368	XX	XX	X						

TYPE	PACKAGING	LEAD CONFIGURATION	ON REQUEST					
			C-TOL	63 V	100 V	250 V	400 V	630 V
368	loose in box	lead length 4.0 + 1.0/- 0.5 mm	± 10 %	15	25	45	55	65
			± 5 %	16	26	46	56	66
		lead length 4.0 + 1.0/- 0.5 mm (lock lead)	± 10 %	-	90	90	90	90
			dimensions of this code numbers stays between brackets					
		lead length 3.5 ± 0.5 mm	± 10 %	13	23	43	53	63
			± 5 %	17	27	47	57	67
	long leads: 19.0 ± 4.0 mm for lead pitch = 15.0 mm 25.0 ± 4.0 mm for lead pitch = 22.5 mm 24.0 ± 4.0 mm for lead pitch = 27.5 mm	± 10 %	11	21	41	51	61	
		± 5 %	12	22	42	52	62	
taped on reel	H = 16.0 mm; P ₀ = 12.7 mm; reel diameter = 500 mm	± 10 %	18	28	48	58	68	
		± 5 %	19	29	49	59	69	

SPECIFIC REFERENCE DATA

DESCRIPTION	VALUE				
Tangent of loss angle: C ≤ 0.1 µF 0.1 µF < C ≤ 0.47 µF 0.47 µF < C ≤ 1.0 µF	at 1 kHz		at 10 kHz		at 100 kHz
	≤ 75 x 10 ⁻⁴		≤ 130 x 10 ⁻⁴		≤ 225 x 10 ⁻⁴
	≤ 75 x 10 ⁻⁴		≤ 130 x 10 ⁻⁴		≤ 300 x 10 ⁻⁴
	≤ 75 x 10 ⁻⁴		≤ 130 x 10 ⁻⁴		-
Rated voltage pulse slope (dU/dt) _R P = 10 mm P = 15 mm P = 22.5 mm P = 27.5 mm	at 63 V (DC)	at 100 V (DC)	at 250 V (DC)	at 400 V (DC)	at 630 V (DC)
	30 V/µs	30 V/µs	70 V/µs	110 V/µs	70 V/µs
		20 V/µs	28 V/µs	44 V/µs	70 V/µs
		8 V/µs	12 V/µs	20 V/µs	28 V/µs
R between leads, for C ≤ 0.33 µF: at 10 V; 1 minute at 100 V; 1 minute at 500 V; 1 minute	> 15000 MΩ	> 15000 MΩ	> 30000 MΩ	> 30000 MΩ	> 30000 MΩ
	> 5000 s	> 5000 s	> 10000 s	> 10000 s	> 10000 s
	> 30000 MΩ	> 30000 MΩ	> 30000 MΩ	> 30000 MΩ	> 30000 MΩ
	> 30000 MΩ	> 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	1008 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	1260 V; 1 minute

 $U_{Rdc} = 63 \text{ V}$; $U_{Rac} = 40 \text{ V}$

C (μ F)	DIMENSIONS $w_{\text{max}} \times h_{\text{max}} \times l_{\text{max}}$ (mm)	MASS (g)	CATALOG NUMBER 2222 368 AND PACKAGING					
			LOOSE IN BOX			REEL	LOOSE IN BOX	
			$l_t =$ 4.0 + 1.0/-0.5 mm	short leads	long leads	SPQ	$l_t =$ 4.0 + 1.0/-0.5 mm	SPQ
			C-tol = $\pm$ 10 %	SPQ	SPQ		C-tol = $\pm$ 10 %	
			last 5 digits of catalog number				last 5 digits of catalog number	
Pitch = 10.0 $\pm$ 0.4 mm; d_t = 0.60 $\pm$ 0.06 mm						lock lead		
0.22	4.2 x 13.2 (15.5) x 12.5	0.5	15224	2000	1000	1300	90316	1100
0.27	4.0 x 12.8 (15.5) x 12.5	0.5	15274	2000	1000	1300	90317	1100
0.33	4.3 x 13.1 (15.5) x 12.5	0.5	15334	2000	1000	1300	90318	1100
0.39	4.2 x 12.9 (15.5) x 12.5	0.5	15394	2000	1000	1300	90319	1100
0.47	4.3 x 13.4 (16.0) x 12.5	0.5	15474	2000	1000	1200	90321	1000
0.56	4.7 x 13.7 (16.0) x 12.5	0.5	15564	2000	1000	1200	90322	1000
0.68	5.1 x 14.1 (16.5) x 12.5	0.6	15684	2000	1000	1100	90323	1500
0.82	5.5 x 14.5 (17.0) x 12.5	0.6	15824	2000	1000	1000	90324	1250
1.0	6.0 x 15.0 (17.5) x 12.5	0.8	15105	2000	1000	900	90325	1250

 $U_{Rdc} = 100 \text{ V}$; $U_{Rac} = 63 \text{ V}$

C (μF)	DIMENSIONS w _{max} x h _{max} x l _{max} (mm)	MASS (g)	CATALOG NUMBER 2222 368 AND PACKAGING					
			LOOSE IN BOX			REEL	LOOSE IN BOX	
			l _t = 4.0 + 1.0/- 0.5 mm	short leads	long leads	SPQ	l _t = 4.0 + 1.0/-0.5 mm	SPQ
			C-tol = ± 10 %	SPQ	SPQ		C-tol = ± 10 %	
			last 5 digits of catalog number				last 5 digits of catalog number	
Pitch = 10.0 ± 0.4 mm; d _t = 0.60 ± 0.06 mm							lock lead	
0.056	4.0 x 13.0 (15.0) x 12.5	0.4	25563	2000	1000	1500	90205	1250
0.068			25683				90206	
0.082	3.7 x 12.7 (15.0) x 12.5	0.4	25823	2000	1000	1500	90207	1250
0.10	4.0 x 13.0 (15.0) x 12.5	0.4	25104	2000	1000	1500	90208	1250
0.12	4.3 x 13.3 (15.0) x 12.5	0.4	25124	2000	1000	1500	90209	1250
0.15	3.9 x 12.9 (15.0) x 12.5	0.4	25154	2000	1000	1500	90211	1250
0.18	4.2 x 13.2 (15.5) x 12.5	0.5	25184	2000	1000	1300	90212	1100
0.22	4.5 x 13.6 (16.0) x 12.5	0.5	25224	2000	1000	1200	90213	1000
Pitch = 15.0 ± 0.4 mm; d _t = 0.80 ± 0.08 mm							lock lead	
0.27	5.0 x 14.0 (17.0) x 17.5	0.6	25274	2000	1000	1200	90214	1750
0.33			25334				90215	
0.39			25394				90216	
0.47	5.5 x 14.5 (17.5) x 17.5	0.7	25474	2000	1000	1100	90217	1500
0.56			25564				90218	
0.68	6.0 x 15.0 (18.0) x 17.5	0.9	25684	2000	1000	1000	90219	1500
0.82	6.5 x 15.5 (18.5) x 17.5	1.0	25824	1000	1000	900	90221	1250
1.0	7.5 x 16.5 (19.5) x 17.5	1.3	25105	1000	1000	800	90222	1000



C (μF)	DIMENSIONS w _{max} x h _{max} x l _{max} (mm)	MASS (g)	CATALOG NUMBER 2222 368 AND PACKAGING					
			LOOSE IN BOX			REEL	LOOSE IN BOX	
			l _t = 4.0 + 1.0/- 0.5 mm	short leads	long leads	SPQ	l _t = 4.0 + 1.0/-0.5 mm	SPQ
			C-tol = ± 10 %	SPQ	SPQ		C-tol = ± 10 %	
			last 5 digits of catalog number				last 5 digits of catalog number	
Pitch = 22.5 ± 0.4 mm; d _t = 0.80 ± 0.08 mm							lock lead	
1.2	6.0 x 18.0 (21.0) x 26.0	2.5	25125	1000	1000		90223	1000
1.5			25155				90224	
1.8	7.0 x 19.0 (22.0) x 26.0	3.2	25185	1000	1000		90225	900
2.2	7.5 x 19.5 (23.0) x 26.0	3.5	25225	1000	500		90226	750
2.7	8.5 x 21.5 (24.0) x 26.0	4.1	25275	1000	500		90227	600
3.3	9.0 x 22.0 (24.5) x 26.0	4.5	25335	1000	500		90228	600
Pitch = 27.5 ± 0.4 mm; d _t = 0.80 ± 0.08 mm							lock lead	
3.9	9.0 x 22.0 (24.0) x 30.0	4.8	25395	500	500		90229	500
4.7	10.0 x 23.0 (25.0) x 30.0	5.5	25475	500	500		90178	400
5.6	11.0 x 24.0 (26.0) x 30.0	6.2	25565	500	250		90231	350
6.8	12.0 x 25.0 (27.0) x 30.0	6.8	25685	500	250		90232	350

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

C (μF)	DIMENSIONS w _{max} x h _{max} x l _{max} (mm)	MASS (g)	CATALOG NUMBER 2222 368 AND PACKAGING					
			LOOSE IN BOX			REEL	LOOSE IN BOX	
			l _t = 4.0 + 1.0/- 0.5 mm	short leads	long leads	SPQ	l _t = 4.0 + 1.0/-0.5 mm	SPQ
			C-tol = ± 10 %	SPQ	SPQ		C-tol = ± 10 %	
			last 5 digits of catalog number				last 5 digits of catalog number	
Pitch = 10.0 ± 0.4 mm; d _t = 0.60 ± 0.06 mm							lock lead	
0.027	4.2 x 13.0 (15.0) x 12.5	0.4	45273	2000	1000	1500	90233	1250
0.033	4.6 x 13.0 (15.0) x 12.5	0.5	45333	2000	1000	1300	90234	1250
0.039	4.0 x 13.0 (15.0) x 12.5	0.4	45393	2000	1000	1500	90235	1250
0.047	4.5 x 13.5 (15.5) x 12.5	0.5	45473	2000	1000	1500	90176	1250
0.056	4.6 x 13.5 (15.5) x 12.5	0.5	45563	2000	1000	1300	90236	1100
0.068			45683				90237	
0.082	4.4 x 13.4 (16.0) x 12.5	0.5	45823	2000	1000	1200	90238	1000
0.10	4.7 x 13.7 (16.0) x 12.5	0.5	45104	2000	1000	1200	90177	1000
Pitch = 15.0 ± 0.4 mm; d _t = 0.80 ± 0.08 mm							lock lead	
0.12	5.0 x 14.0 (17.0) x 17.5	0.6	45124	2000	1000	1200	90239	1750
0.15			45154				90241	
0.18	5.5 x 14.5 (17.5) x 17.5	0.7	45184	2000	1000	1100	90242	1500
0.22	6.0 x 15.0 (18.0) x 17.5	0.9	45224	2000	1000	1000	90243	1500
0.27	6.0 x 15.5 (18.5) x 17.5	1.0	45274	2000	1000	900	90244	1250
0.33	6.8 x 16.0 (19.0) x 17.5	1.2	45334	1000	1000	800	90245	1250
Pitch = 22.5 ± 0.4 mm; d _t = 0.80 ± 0.08 mm							lock lead	
0.39	5.0 x 17.0 (20.0) x 26.0	1.8	45394	1000	1000		90246	1250
0.47	5.5 x 17.5 (20.5) x 26.0	2.2	45474	1000	1000		90247	1250
0.56	6.0 x 18.0 (21.0) x 26.0	2.5	45564	1000	1000		90248	1000
0.68	6.6 x 18.5 (21.5) x 26.0	2.8	45684	1000	1000		90249	1000
0.82	7.2 x 19.0 (22.0) x 26.0	3.2	45824	1000	1000		90251	900
1.0	8.0 x 20.0 (23.0) x 26.0	3.8	45105	1000	500		90252	750



C (μ F)	DIMENSIONS $w_{\max} \times h_{\max} \times l_{\max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 368 AND PACKAGING					
			LOOSE IN BOX			REEL	LOOSE IN BOX	
			$l_t =$ 4.0 + 1.0/- 0.5 mm	short leads	long leads	SPQ	$l_t =$ 4.0 + 1.0/-0.5 mm	SPQ
			C-tol = ± 10 %	SPQ	SPQ		C-tol = ± 10 %	
			last 5 digits of catalog number				last 5 digits of catalog number	
Pitch = 27.5 $\pm$ 0.4 mm; $d_t = 0.80 \pm 0.08$ mm							lock lead	
1.2	8.0 x 21.0 (23.0) x 30.0	4.1	45125	500	500		90253	600
1.5	9.0 x 22.0 (25.0) x 30.0	4.8	45155	500	500		90254	450
1.8	10.0 x 23.0 (26.0) x 30.0	5.5	45185	500	500		90255	400
2.2	11.0 x 24.0 (27.0) x 30.0	6.2	45225	500	250		90256	350

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

C (μF)	DIMENSIONS w _{max} x h _{max} x l _{max} (mm)	MASS (g)	CATALOG NUMBER 2222 368 AND PACKAGING					
			LOOSE IN BOX			REEL	LOOSE IN BOX	
			l _t = 4.0 + 1.0/- 0.5 mm	short leads	long leads	SPQ	l _t = 4.0 + 1.0/-0.5 mm	SPQ
			C-tol = ± 10 %	SPQ	SPQ		C-tol = ± 10 %	
last 5 digits of catalog number	last 5 digits of catalog number							
Pitch = 10.0 ± 0.4 mm; d _t = 0.60 ± 0.06 mm							lock lead	
0.0010	4.5 x 13.5 (15.5) x 12.5	0.5	55102	2000	1000	1500	90257	1100
0.0012			55122				90258	
0.0015			55152				90259	
0.0018			55182				90261	
0.0022	4.0 x 13.0 (15.5) x 12.5	0.5	55222	2000	1000	1500	90262	1100
0.0027	4.3 x 13.3 (15.5) x 12.5	0.5	55272	2000	1000	1500	90263	1100
0.0033	4.6 x 13.6 (15.5) x 12.5	0.5	55332	2000	1000	1500	90264	1100
0.0039	4.0 x 13.0 (15.5) x 12.5	0.5	55392	2000	1000	1500	90265	1100
0.0047	4.1 x 13.2 (15.5) x 12.5	0.5	55472	2000	1000	1500	90266	1100
0.0056	4.6 x 13.6 (15.5) x 12.5	0.5	55562	2000	1000	1500	90267	1100
0.0068			55682				90268	
0.0082			55822				90269	
0.010			55103				90271	
0.012	4.0 x 13.0 (15.5) x 12.5	0.5	55123	2000	1000	1500	90272	1100
0.015	4.1 x 13.0 (15.5) x 12.5	0.5	55153	2000	1000	1300	90273	1100
0.018	4.4 x 13.0 (15.5) x 12.5	0.5	55183	2000	1000	1500	90274	1100
0.022	4.2 x 12.9 (15.5) x 12.5	0.5	55223	2000	1000	1500	90175	1100
0.027	4.2 x 13.2 (15.5) x 12.5	0.5	55273	2000	1000	1300	90275	1100
0.033	4.6 x 13.7 (15.5) x 12.5	0.5	55333	2000	1000	1300	90188	1100
Pitch = 15.0 ± 0.4 mm; d _t = 0.80 ± 0.08 mm							lock lead	
0.039	5.0 x 13.9 (16.5) x 17.5	0.6	55393	2000	1000	1200	90276	2000
0.047	5.4 x 14.5 (17.0) x 17.5	0.7	55473	2000	1000	1200	90277	1750
0.056	5.0 x 13.7 (16.5) x 17.5	0.6	55563	2000	1000	1200	90278	2000
0.068	5.0 x 13.5 (16.5) x 17.5	0.6	55683	2000	1000	1200	90279	2000
0.082	4.8 x 14.0 (16.5) x 17.5	0.6	55823	2000	1000	1100	90281	2000
0.10	5.3 x 14.5 (17.5) x 17.5	0.7	55104	2000	1000	1000	90186	1500
0.12	5.7 x 15.0 (18.0) x 17.5	0.9	55124	1000	1000	900	90282	1500
0.15	6.4 x 15.5 (18.5) x 17.5	1.0	55154	1000	1000	800	90187	1250



C (μF)	DIMENSIONS w _{max} x h _{max} x l _{max} (mm)	MASS (g)	CATALOG NUMBER 2222 368 AND PACKAGING					
			LOOSE IN BOX			REEL	LOOSE IN BOX	
			l _t = 4.0 + 1.0/- 0.5 mm	short leads	long leads	SPQ	l _t = 4.0 + 1.0/-0.5 mm	SPQ
			C-tol = ± 10 %	SPQ	SPQ		C-tol = ± 10 %	
			last 5 digits of catalog number				last 5 digits of catalog number	
Pitch = 22.5 ± 0.4 mm; d _t = 0.80 ± 0.08 mm							lock lead	
0.18	5.6 x 17.5 (20.5) x 26.0	2.2	55184	1000	1000		90283	1250
0.22	6.3 x 18.5 (21.5) x 26.0	2.8	55224	1000	1000		90284	1000
0.27	6.0 x 18.0 (21.0) x 26.0	2.5	55274	1000	1000		90285	1000
0.33	6.4 x 18.5 (21.5) x 26.0	2.8	55334	1000	1000		90286	1000
0.39	7.1 x 19.0 (21.5) x 26.0	2.8	55394	1000	1000		90287	900
0.47	8.0 x 20.0 (22.5) x 26.0	3.8	55474	1000	500		90179	750
Pitch = 27.5 ± 0.4 mm; d _t = 0.80 ± 0.08 mm							lock lead	
0.56	7.5 x 20.5 (22.5) x 30.0	3.8	55564	500	500		90288	600
0.68	8.5 x 21.5 (23.5) x 30.0	4.5	55684	500	500		90289	500
0.82	9.5 x 22.5 (24.5) x 30.0	5.2	55824	500	500		90291	450
1.0	10.5 x 23.5 (26.5) x 30.0	5.8	55105	500	250		90292	350

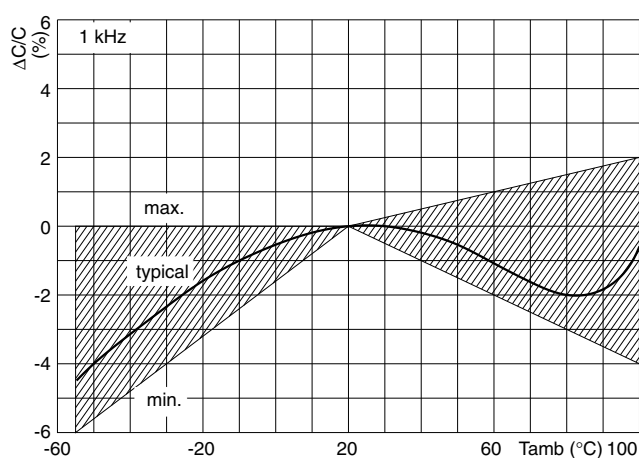
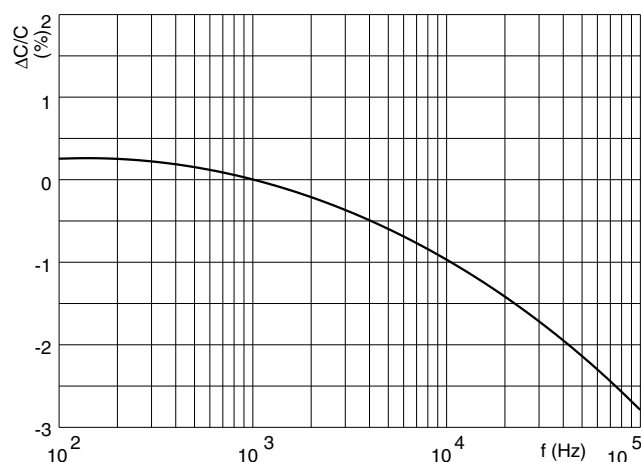
$U_{Rdc} = 630$ V; $U_{Rac} = 250$ V

C (μF)	DIMENSIONS w _{max} x h _{max} x l _{max} (mm)	MASS (g)	CATALOG NUMBER 2222 368 AND PACKAGING					
			LOOSE IN BOX			REEL	LOOSE IN BOX	
			l _t = 4.0 + 1.0/- 0.5 mm	short leads	long leads	SPQ	l _t = 4.0 + 1.0/-0.5 mm	SPQ
			C-tol = ± 10 %	SPQ	SPQ		C-tol = ± 10 %	
			last 5 digits of catalog number				last 5 digits of catalog number	
Pitch = 10.0 ± 0.4 mm; d _t = 0.60 ± 0.06 mm							lock lead	
0.010	4.3 x 13.1 (15.5) x 12.5	0.5	65103	2000	1000	1300	90293	1100
0.012	4.6 x 13.4 (16.0) x 12.5	0.5	65123	2000	1000	1200	90294	1000
0.015	4.9 x 13.9 (16.5) x 12.5	0.6	65153	2000	1000	1100	90295	1500
0.018	5.3 x 14.3 (17.0) x 12.5	0.6	65183	2000	1000	1000	90296	1250
0.022	5.9 x 14.9 (17.5) x 12.5	0.8	65223	2000	1000	900	90297	1250
Pitch = 15.0 ± 0.4 mm; d _t = 0.80 ± 0.08 mm							lock lead	
0.027	5.5 x 14.5 (17.5) x 17.5	0.7	65273	2000	1000	1100	90298	1500
0.033	6.0 x 15.0 (18.0) x 17.5	0.9	65333	2000	1000	1000	90299	1500
0.039	6.3 x 15.5 (18.5) x 17.5	1.0	65393	2000	1000	900	90301	1250
0.047	7.0 x 16.0 (19.0) x 17.5	1.2	65473	2000	1000	800	90302	1250
0.056	7.5 x 16.5 (19.5) x 17.5	1.3	65563	1000	1000	800	90303	1000
0.068	8.0 x 17.0 (20.0) x 17.5	1.4	65683	1000	1000	750	90304	1000
Pitch = 22.5 ± 0.4 mm; d _t = 0.80 ± 0.08 mm							lock lead	
0.082	6.1 x 18.0 (21.0) x 26.0	2.5	65823	1000	1000		90305	1000
0.10	7.0 x 19.0 (22.0) x 26.0	3.2	65104	1000	1000		90306	900
0.12	7.2 x 19.5 (22.5) x 26.0	3.5	65124	1000	1000		90307	750
0.15	8.0 x 21.0 (23.0) x 26.0	3.8	65154	1000	500		90308	750
0.18	9.0 x 22.0 (24.0) x 26.0	4.5	65184	1000	500		90309	600
0.22	10.0 x 23.0 (25.0) x 26.0	5.2	65224	1000	500		90311	550

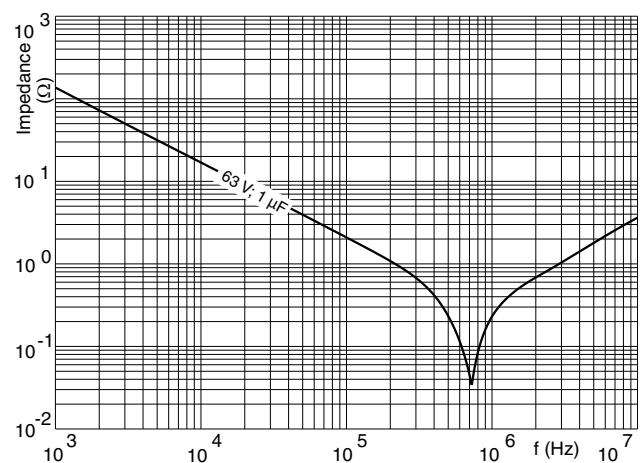


C (μF)	DIMENSIONS w _{max} x h _{max} x l _{max} (mm)	MASS (g)	CATALOG NUMBER 2222 368 AND PACKAGING					
			LOOSE IN BOX			REEL	LOOSE IN BOX	
			l _t = 4.0 + 1.0/- 0.5 mm	short leads	long leads	SPQ	l _t = 4.0 + 1.0/-0.5 mm	SPQ
			C-tol = ± 10 %	SPQ	SPQ		C-tol = ± 10 %	
			last 5 digits of catalog number				last 5 digits of catalog number	
Pitch = 27.5 ± 0.4 mm; d _t = 0.80 ± 0.08 mm							lock lead	
0.27	10.0 x 23.0 (25.0) x 30.0	5.5	65274	500	500		90312	400
0.33	11.5 x 24.5 (26.5) x 30.0	6.5	65334	500	250		90313	350
0.39	12.5 x 25.5 (28.5) x 30.0	7.1	65394	500	250		90314	300
0.47	14.0 x 27.0 (30.0) x 30.0	8.2	65474	250	250		90315	250

CAPACITANCE

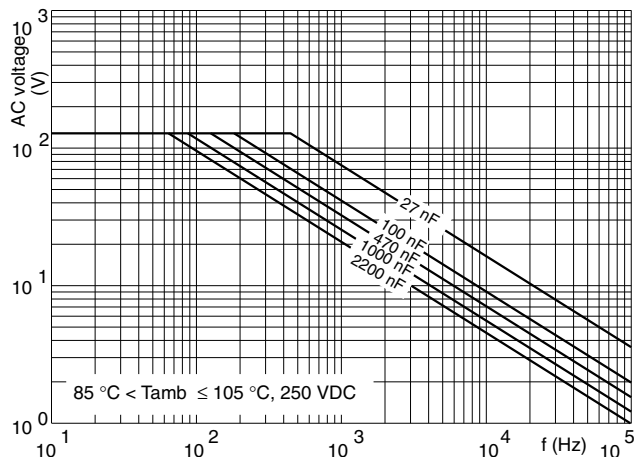
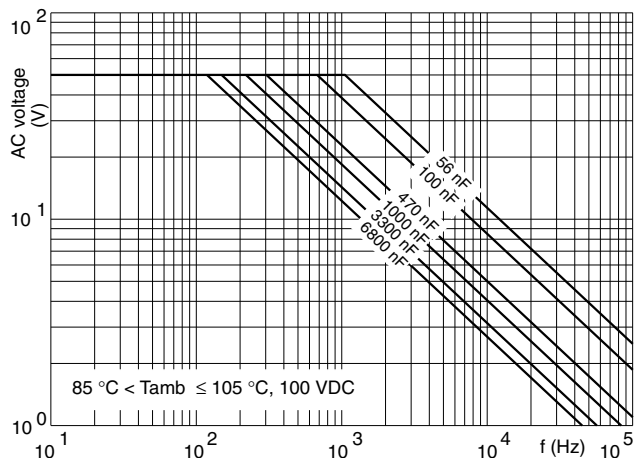
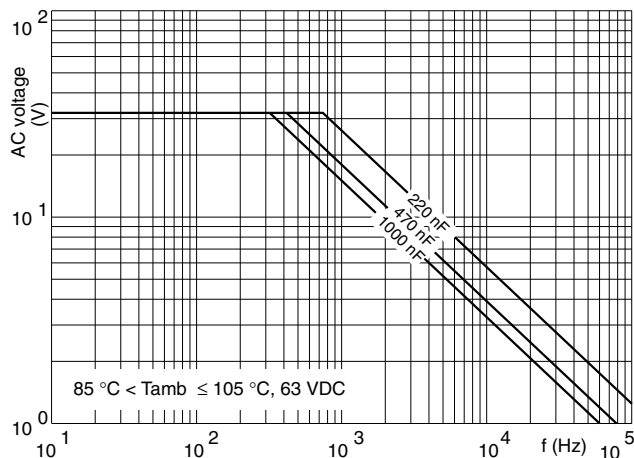
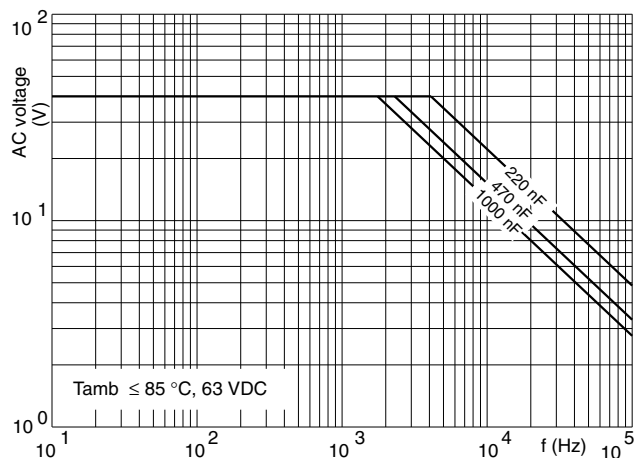


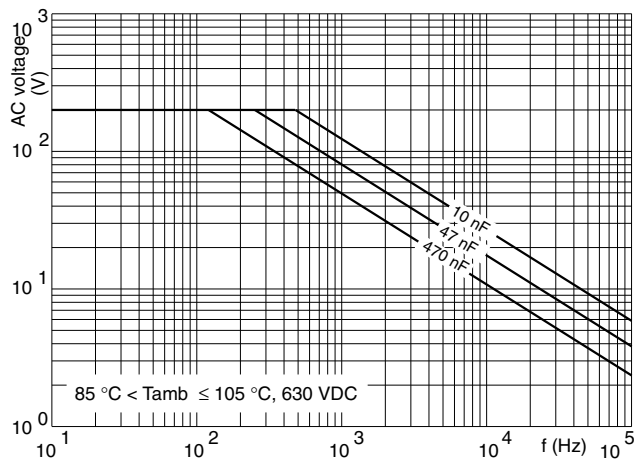
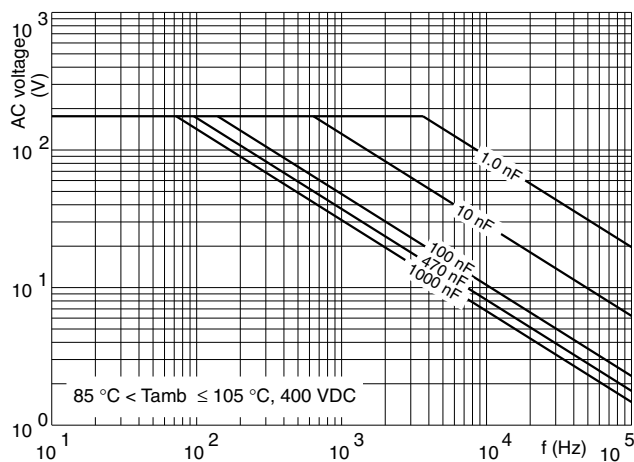
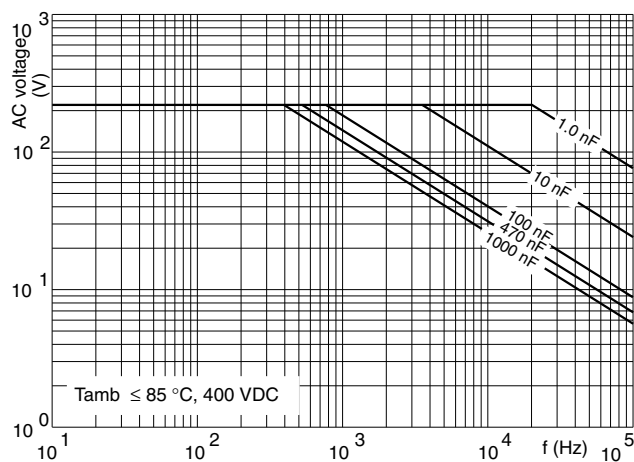
IMPEDANCE





MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY







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