

Metallized Polyester Film Capacitors MKT Radial Epoxy Lacquered Type

APPLICATIONS

Blocking and coupling. Bypass and energy reservoir

MARKING

C-value; tolerance; rated voltage; manufacturer's symbol; code for dielectric material and construction

DIELECTRIC

Polyester film

ELECTRODES

Vacuum deposited aluminium

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

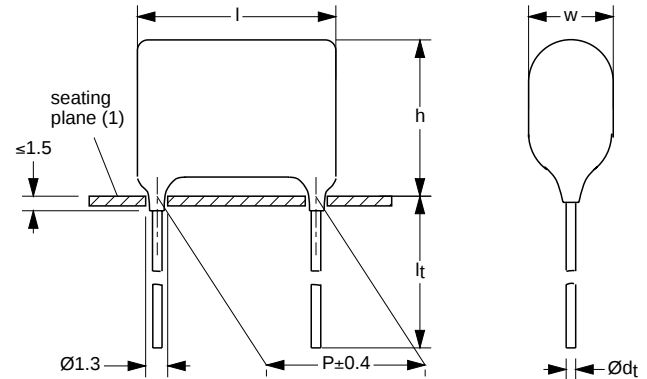
100 V; 250 V; 400 V; 630 V

RATED (AC) VOLTAGE

63 V; 160 V; 220 V; 250 V

CLIMATIC CATEGORY

55/105/56



Dimensions in mm.
(1) Hole Ø1.0 for $d_t = 0.6$ mm.

RATED TEMPERATURE

85 °C

MAXIMUM APPLICATION TEMPERATURE

105 °C

REFERENCE SPECIFICATIONS

IEC 60384-2

PERFORMANCE GRADE

Grade 1 (long life)

MATERIALS

Qualified in accordance with UL94 V-0

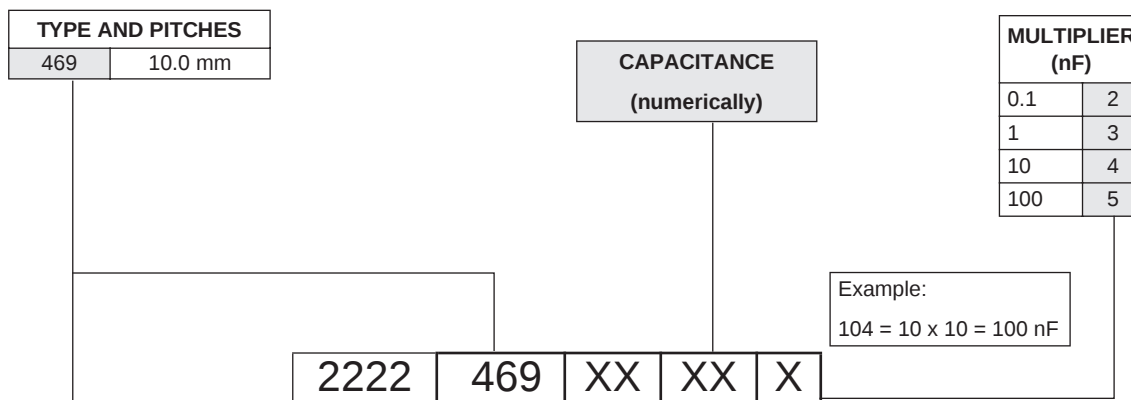
FEATURES

Available taped and loose in box

DETAIL SPECIFICATION

For more detailed data and test requirements see "Type detail specification HQN-384-02/102"

COMPOSITION OF CATALOG NUMBER



TYPE	PACKAGING	LEAD CONFIGURATION	ON REQUEST				
			C-TOL	100 V	250 V	400 V	630 V
MKT 469	loose in box	lead length 4.0+1.0/-0.5 mm	±10%	25	45	55	65
			±5%	26	46	56	66
		lead length 22.0 ±4.0 mm	±10%	21	41	51	61
			±5%	22	42	52	62
	taped on reel	H = 18.5 mm; P ₀ = 12.7 mm; reel diameter = 500 mm	±10%	28	48	58	68
			±5%	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 × 10 ⁻⁴	≤120 × 10 ⁻⁴	≤200 × 10 ⁻⁴	
	≤75 × 10 ⁻⁴	≤120 × 10 ⁻⁴	≤225 × 10 ⁻⁴	
	≤75 × 10 ⁻⁴	≤120 × 10 ⁻⁴	-	
Rated voltage pulse slope (dU/dt) _R at 100 V (DC)	at 100 V (DC)	at 250 V (DC)	at 400 V (DC)	at 630 V (DC)
	30 V/μs	120 V/μs	170 V/μs	120 V/μs
R between leads, for C ≤ 0.33 μF: at 100 V; 1 minute at 500 V; 1 minute		>30000 MΩ	>30000 MΩ	>30000 MΩ
RC between leads, for C > 0.33 μF at 100 V; 1 minute	>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	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


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

C (μ F)	DIMENSIONS $w_{\text{max}} \times h_{\text{max}} \times l_{\text{max}}$ (mm)	MASS (g)	CATALOG NUMBER 2222 469 AND PACKAGING								
			LOOSE IN BOX			REEL					
			$l_t = 4.0 +1.0/-0.5$ mm		$l_t = 22.0 \pm 4.0$ mm		SPQ				
			C-tol = $\pm 10\%$	SPQ	SPQ						
			last 5 digits of catalog number								
Pitch = 10.0 $\pm$ 0.4 mm; $d_t = 0.60 \pm 0.06$ mm											
0.056 0.068 0.082 0.1	4.0 $\times$ 9.3 $\times$ 12.5	0.4	25563 25683 25823 25104	2000	1500	1500					
0.12			4.3 $\times$ 9.7 $\times$ 12.5				0.5	25124	2000	1500	1500
0.15			3.9 $\times$ 9.2 $\times$ 12.5				0.4	25154	2000	1500	1500
0.18			4.2 $\times$ 9.5 $\times$ 12.5				0.4	25184	2000	1500	1500
0.22	4.5 $\times$ 9.9 $\times$ 12.5	0.5	25224	2000	1500	1300					
0.27	4.2 $\times$ 9.5 $\times$ 12.5	0.4	25274	2000	1500	1500					
0.33	4.6 $\times$ 9.9 $\times$ 12.5	0.5	25334	2000	1500	1300					
0.39	4.0 $\times$ 9.3 $\times$ 12.5	0.4	25394	2000	1500	1500					
0.47	4.2 $\times$ 9.5 $\times$ 12.5	0.4	25474	2000	1500	1500					
0.56	4.6 $\times$ 9.9 $\times$ 12.5	0.5	25564	2000	1500	1300					
0.68	5.0 $\times$ 10.3 $\times$ 12.5	0.5	25684	1500	1250	1200					
0.82	5.5 $\times$ 10.8 $\times$ 12.5	0.6	25824	1500	1000	1100					
1.0	6.0 $\times$ 11.3 $\times$ 12.5	0.6	25105	1250	1000	1000					

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

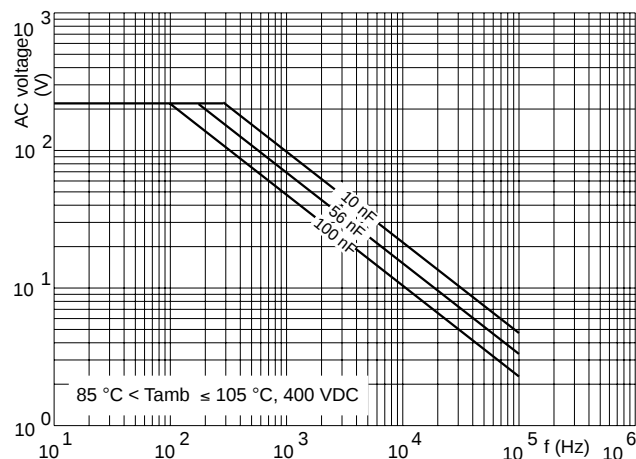
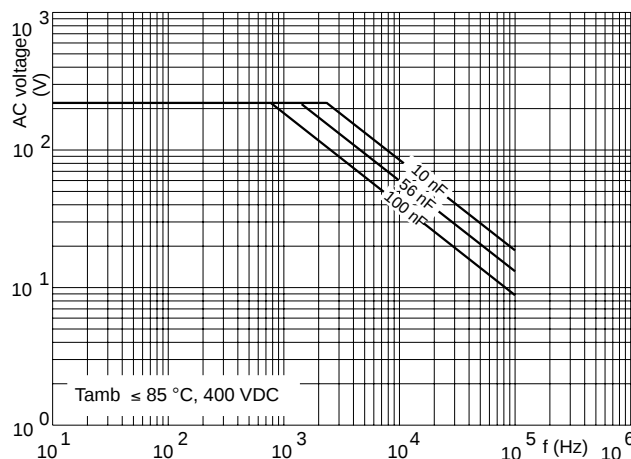
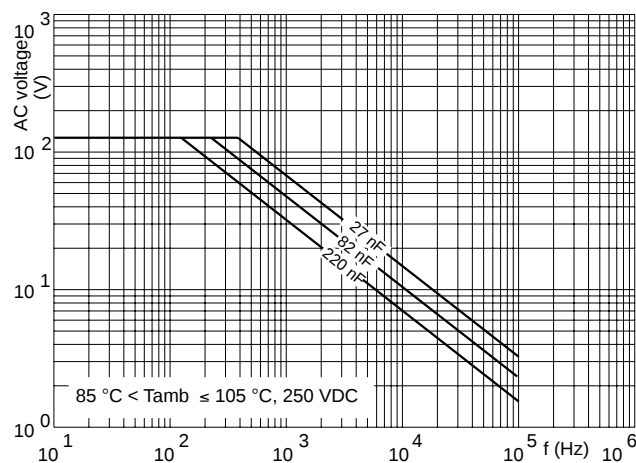
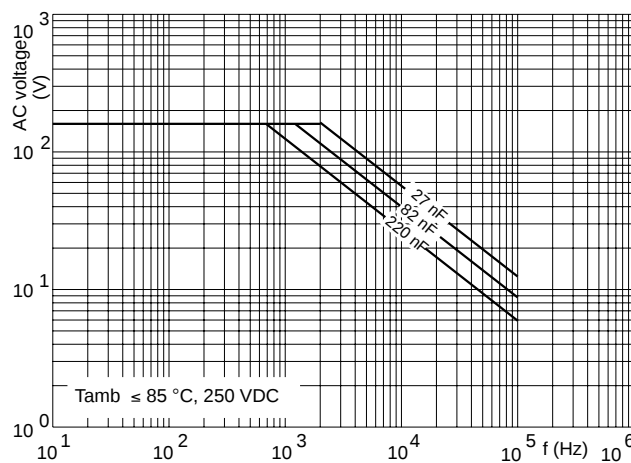
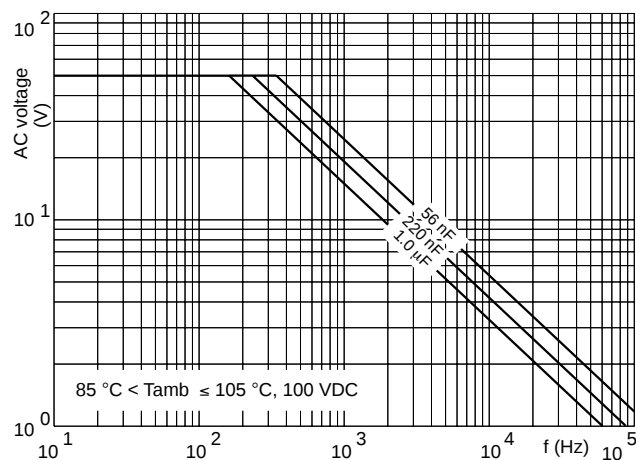
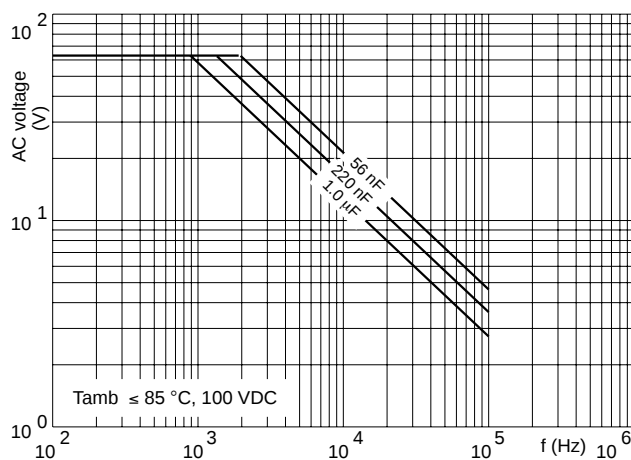
C (μF)	DIMENSIONS w _{max} × h _{max} × l _{max} (mm)	MASS (g)	CATALOG NUMBER 2222 469 AND PACKAGING				
			LOOSE IN BOX			REEL	
			l _t = 4.0 +1.0/-0.5 mm		l _t = 22.0 ±4.0 mm		SPQ
			C-tol = ±10%	SPQ	SPQ		
			last 5 digits of catalog number				
Pitch = 10.0 ±0.4 mm; d _t = 0.60 ±0.06 mm							
0.027	4.2 × 9.5 × 12.5	0.4	45273	2000	1500	1500	
0.033	4.6 × 9.9 × 12.5	0.5	45333	2000	1500	1300	
0.039	4.0 × 9.3 × 12.5	0.4	45393	2000	1500	1500	
0.047	4.1 × 9.4 × 12.5	0.4	45473	2000	1500	1500	
0.056	4.0 × 9.3 × 12.5	0.4	45563	2000	1500	1500	
0.068	4.1 × 9.4 × 12.5	0.4	45683	2000	1500	1500	
0.082	4.4 × 9.7 × 12.5	0.5	45823	2000	1500	1500	
0.1	4.0 × 9.3 × 12.5	0.4	45104	2000	1500	1500	
0.12	4.3 × 9.7 × 12.5	0.5	45124	2000	1500	1500	
0.15	4.8 × 10.1 × 12.5	0.5	45154	2000	1250	1300	
0.18	5.2 × 10.5 × 12.5	0.5	45184	1500	1000	1200	
0.22	5.8 × 11.1 × 12.5	0.6	45224	1500	1000	1100	

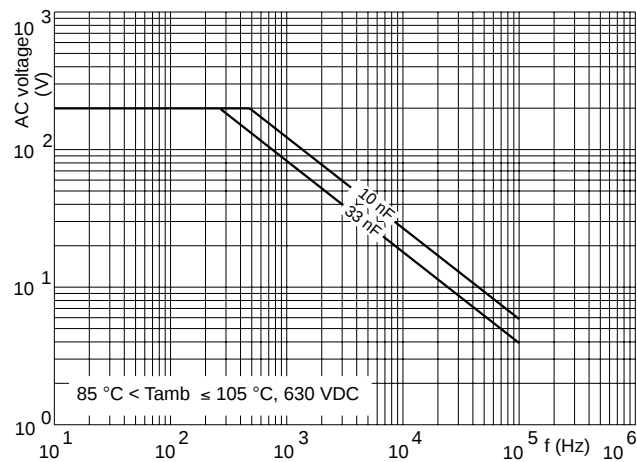
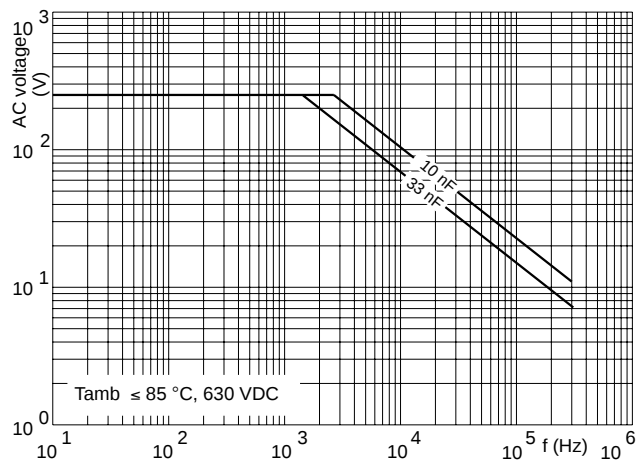
$U_{Rdc} = 400\text{ V}$; $U_{Rac} = 220\text{ V}$

C (μF)	DIMENSIONS $w_{\text{max}} \times h_{\text{max}} \times l_{\text{max}}$ (mm)	MASS (g)	CATALOG NUMBER 2222 469 AND PACKAGING			
			LOOSE IN BOX			REEL
			$l_t = 4.0 +1.0/-0.5 \text{ mm}$		$l_t = 22.0 \pm 4.0 \text{ mm}$	
			C-tol = $\pm 10\%$	SPQ	SPQ	SPQ
			last 5 digits of catalog number			
Pitch = 10.0 ±0.4 mm; d _t = 0.60 ±0.06 mm						
0.001 0.0012 0.0015 0.0018	4.5 × 9.9 × 12.5	0.5	55102 55122 55152 55182	2000	1500	1300
0.0022	4.0 × 9.3 × 12.5	0.4	55222	2000	1500	1500
0.0027	4.3 × 9.7 × 12.5	0.5	55272	2000	1500	1500
0.0033	4.6 × 9.9 × 12.5	0.5	55332	2000	1500	1300
0.0039	4.0 × 9.3 × 12.5	0.4	55392	2000	1500	1500
0.0047	4.1 × 9.5 × 12.5	0.4	55472	2000	1500	1500
0.0056	4.6 × 9.9 × 12.5	0.5	55562	2000	1500	1300
0.0068	4.2 × 9.5 × 12.5	0.4	55682	2000	1500	1500
0.0082	4.6 × 9.9 × 12.5	0.5	55822	2000	1500	1300
0.01	4.1 × 9.4 × 12.5	0.4	55103	2000	1500	1500
0.012	4.5 × 9.9 × 12.5	0.5	55123	2000	1500	1300
0.015	4.1 × 9.4 × 12.5	0.4	55153	2000	1500	1500
0.018	4.5 × 9.9 × 12.5	0.5	55183	2000	1500	1300
0.022	4.0 × 9.3 × 12.5	0.4	55223	2000	1500	1500
0.027	4.2 × 9.5 × 12.5	0.4	55273	2000	1500	1500
0.033	4.6 × 9.9 × 12.5	0.5	55333	2000	1500	1300
0.039	5.0 × 10.3 × 12.5	0.5	55393	1500	1250	1200
0.047	4.1 × 9.4 × 12.5	0.4	55473	2000	1500	1500
0.056	4.4 × 9.7 × 12.5	0.5	55563	2000	1500	1500
0.068	4.8 × 10.1 × 12.5	0.5	55683	2000	1250	1300
0.082	5.4 × 10.8 × 12.5	0.6	55823	1500	1000	1200
0.1	5.7 × 11.0 × 12.5	0.6	55104	1500	1000	1100

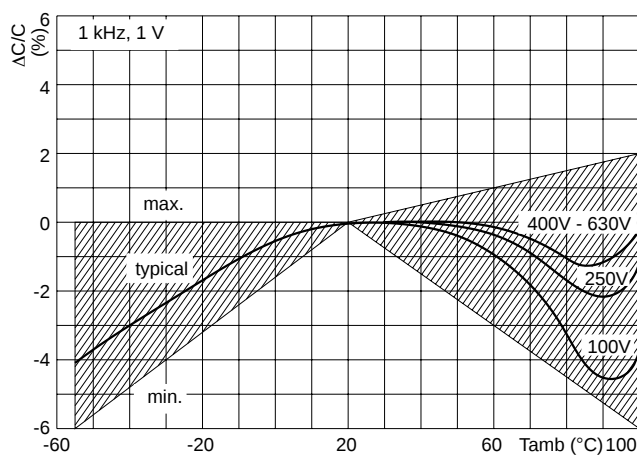
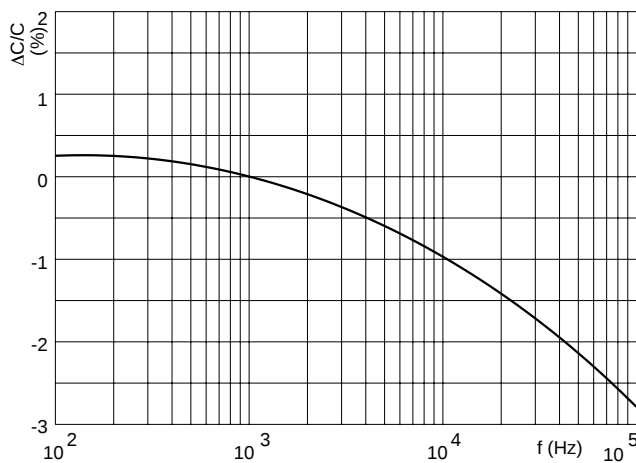
 $U_{Rdc} = 630\text{ V}$; $U_{Rac} = 250\text{ V}$

C (μF)	DIMENSIONS w _{max} × h _{max} × l _{max} (mm)	MASS (g)	CATALOG NUMBER 2222 469 AND PACKAGING				
			LOOSE IN BOX			REEL	
			l _t = 4.0 +1.0/-0.5 mm		l _t = 22.0 ±4.0 mm		SPQ
			C-tol = ±10%	SPQ	SPQ		
			last 5 digits of catalog number				
Pitch = 10.0 ±0.4 mm; d _t = 0.60 ±0.06 mm							
0.01	4.1 × 9.4 × 12.5	0.4	65103	2000	1500	1500	
0.012	4.5 × 9.9 × 12.5	0.5	65123	2000	1500	1300	
0.015	4.9 × 10.2 × 12.5	0.5	65153	2000	1250	1200	
0.018	5.4 × 10.8 × 12.5	0.6	65183	1500	1000	1100	
0.022	4.8 × 10.1 × 12.5	0.5	65223	2000	1250	1300	
0.027	5.3 × 10.7 × 12.5	0.6	65273	2000	1000	1200	
0.033	5.9 × 11.2 × 12.5	0.6	65333	1500	1000	1100	

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



CAPACITANCE



IMPEDANCE

