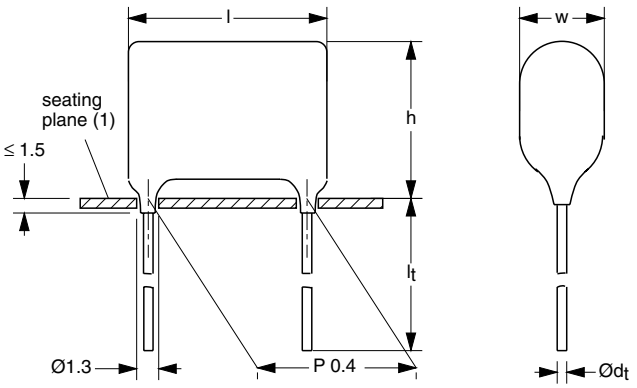
Metallized Polyester Film Capacitors
MKT Radial Epoxy Lacquered Type



Dimensions in mm

(1) Hole ∅ 1.0 for d_t = 0.6 mm

FEATURES

Available taped on reel and loose in box

Lead (Pb)-free product

RoHS-compliant product

Pb-free

e3

RoHS COMPLIANT

CAPACITANCE TOLERANCE

± 10 %; ± 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

APPLICATIONS

Blocking and coupling. Bypass and energy reservoir

MARKING

C-value; tolerance; rated voltage

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 µF

CLIMATIC CATEGORY

55/105/56

RATED TEMPERATURE

85 °C

MAXIMUM APPLICATION TEMPERATURE

105 °C

REFERENCE SPECIFICATIONS

IEC 60384-2

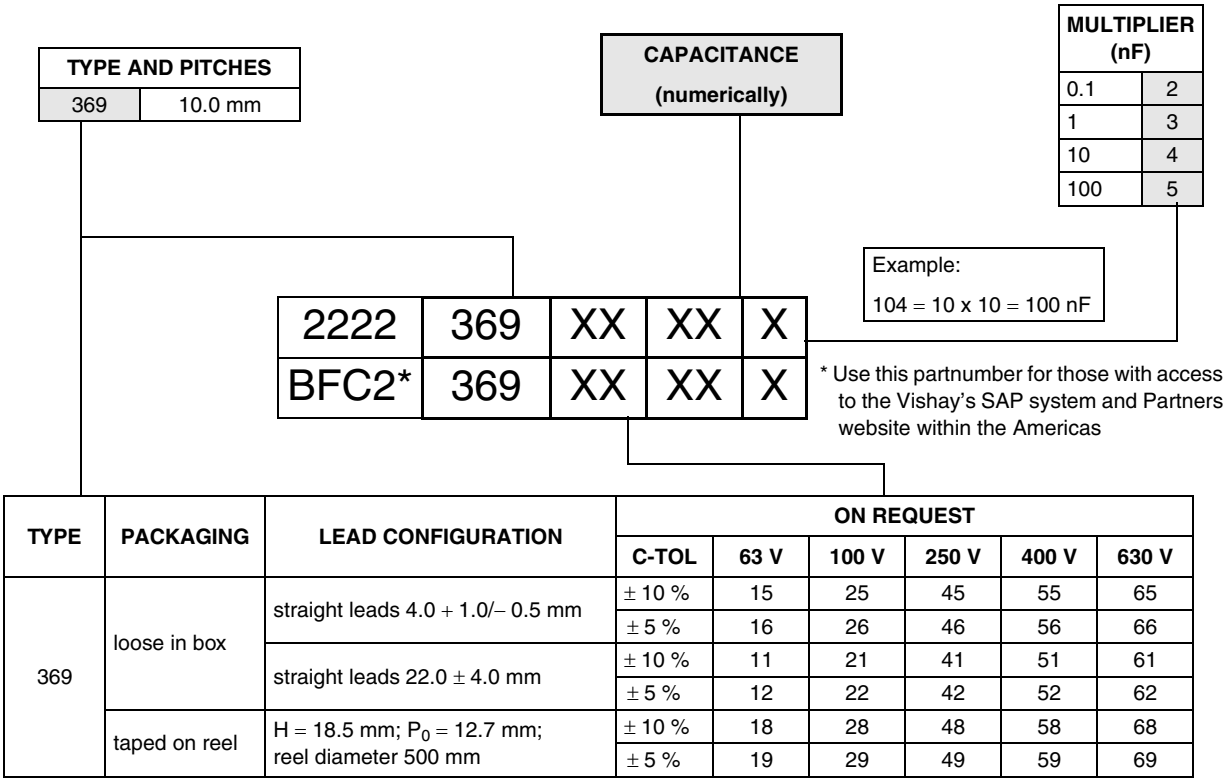
PERFORMANCE GRADE

Grade 1 (long life)

DETAIL SPECIFICATION

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

COMPOSITION OF CATALOG NUMBER



TYPE	PACKAGING	LEAD CONFIGURATION	ON REQUEST					
			C-TOL	63 V	100 V	250 V	400 V	630 V
369	loose in box	straight leads 4.0 + 1.0/– 0.5 mm	± 10 %	15	25	45	55	65
			± 5 %	16	26	46	56	66
		straight leads 22.0 ± 4.0 mm	± 10 %	11	21	41	51	61
			± 5 %	12	22	42	52	62
	taped on reel	H = 18.5 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:	at 1 kHz		at 10 kHz		at 100 kHz
$C \leq 0.47$ µF	$\leq 75 \times 10^{-4}$		$\leq 130 \times 10^{-4}$		$\leq 300 \times 10^{-4}$
0.47 µF < C ≤ 1.0 µF	$\leq 75 \times 10^{-4}$		$\leq 130 \times 10^{-4}$		$\leq 225 \times 10^{-4}$
$C \geq 0.1$ µF	$\leq 75 \times 10^{-4}$		$\leq 130 \times 10^{-4}$		$\leq 300 \times 10^{-4}$
Rated voltage pulse slope $(dU/dt)_R$	at 63 V (DC)	at 100 V (DC)	at 250 V (DC)	at 400 V (DC)	at 630 V (DC)
	30 V/µs	28 V/µs	70 V/µs	110 V/µs	70 V/µs
R between leads, for C ≤ 0.33 µF:					
at 10 V; 1 minute	> 15000 MΩ				
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 10 V; 1 minute	> 5000 s				
at 500 V; 1 minute					> 10000 s
R between interconnecting leads and casing;					
at 10 V; 1 minute	> 30000 MΩ				
at 100 V; 1 minute		> 30000 MΩ	> 30000 MΩ	> 30000 MΩ	
at 500 V; 1 minute					> 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 V; U_{Rac} = 40 V

C (µF)	DIMENSIONS $w_{max} \times h_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 369 ..... AND PACKAGING			
			LOOSE IN BOX			REEL
			l_t = 4.0 + 1.0/– 0.5 mm		l_t = 22.0 ± 4.0 mm	
			C-tol = ± 10 %			
			last 5 digits of catalog number	SPQ	SPQ	SPQ
Pitch = 10.0 ± 0.4 mm; d_t = 0.60 ± 0.06 mm						
0.22	4.2 × 9.3 × 12.5	0.4	15224	2000	1000	1300
0.27	3.8 × 9.0 × 12.5	0.4	15274	2000	1000	1300
0.33	4.1 × 9.3 × 12.5	0.4	15334	2000	1000	1300
0.39	4.0 × 9.2 × 12.5	0.4	15394	2000	1000	1300
0.47	4.3 × 9.5 × 12.5	0.5	15474	2000	1000	1200
0.56	4.7 × 9.8 × 12.5	0.5	15564	2000	1000	1200
0.68	5.1 × 10.2 × 12.5	0.5	15684	2000	1000	1100
0.82	5.5 × 10.7 × 12.5	0.6	15824	2000	1000	1000
1	6.0 × 11.1 × 12.5	0.7	15105	2000	1000	900

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 369 ..... AND PACKAGING			
			LOOSE IN BOX			REEL
			l_t = 4.0 + 1.0/– 0.5 mm		l_t = 22.0 ± 4.0 mm	
			C-tol = ± 10 %			
			last 5 digits of catalog number	SPQ	SPQ	SPQ
Pitch = 10.0 ± 0.4 mm; d_t = 0.60 ± 0.06 mm						
0.056 0.068	4.0 × 9.1 × 12.5	0.4	25563 25683	2000	1000	1500
0.082	3.7 × 8.8 × 12.5	0.4	25823	2000	1000	1500
0.1	4.0 × 9.0 × 12.5	0.4	25104	2000	1000	1500
0.12	4.3 × 9.3 × 12.5	0.4	25124	2000	1000	1500
0.15	3.9 × 8.9 × 12.5	0.4	25154	2000	1000	1500
0.18	4.2 × 9.2 × 12.5	0.5	25184	2000	1000	1300
0.22	4.5 × 9.4 × 12.5	0.5	25224	2000	1000	1200

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

C (µF)	DIMENSIONS $w_{max} \times h_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 369 ..... AND PACKAGING			
			LOOSE IN BOX			REEL
			l_t = 4.0 + 1.0/– 0.5 mm		l_t = 22.0 ± 4.0 mm	
			C-tol = ± 10 %			
			last 5 digits of catalog number	SPQ	SPQ	SPQ
Pitch = 10.0 ± 0.4 mm; d_t = 0.60 ± 0.06 mm						
0.027	4.2 × 8.7 × 12.5	0.4	45273	2000	1000	1500
0.033	4.6 × 8.8 × 12.5	0.5	45333	2000	1000	1300
0.039	4.0 × 8.8 × 12.5	0.4	45393	2000	1000	1500
0.047	4.5 × 9.0 × 12.5	0.5	45473	2000	1000	1500
0.056	4.6 × 8.8 × 12.5	0.5	45563	2000	1000	1300
0.068	4.6 × 9.2 × 12.5	0.5	45683	2000	1000	1300
0.082	4.4 × 9.4 × 12.5	0.5	45823	2000	1000	1200
0.1	4.7 × 9.7 × 12.5	0.5	45104	2000	1000	1200

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 369 ..... AND PACKAGING			
			LOOSE IN BOX			REEL
			l_t = 4.0 + 1.0/– 0.5 mm		l_t = 22.0 ± 4.0 mm	
			C-tol = ± 10 %			
			last 5 digits of catalog number	SPQ	SPQ	SPQ
Pitch = 10.0 ± 0.4 mm; d_t = 0.60 ± 0.06 mm						
0.001	4.5 × 8.7 × 12.5	0.5	55102	2000	1000	1500
0.0012	4.5 × 9.0 × 12.5	0.5	55122	2000	1000	1500
0.0015	4.5 × 8.8 × 12.5	0.5	55152	2000	1000	1500
0.0018	4.5 × 8.7 × 12.5	0.5	55182	2000	1000	1500
0.0022	4.0 × 8.6 × 12.5	0.5	55222	2000	1000	1500
0.0027	4.3 × 8.9 × 12.5	0.5	55272	2000	1000	1500
0.0033	4.6 × 9.1 × 12.5	0.5	55332	2000	1000	1500
0.0039	4.0 × 8.7 × 12.5	0.5	55392	2000	1000	1500
0.0047	4.1 × 8.8 × 12.5	0.5	55472	2000	1000	1500
0.0056	4.6 × 9.1 × 12.5	0.5	55562	2000	1000	1500
0.0068			55682			
0.0082			55822			
0.01			55103			
0.012	4.0 × 8.7 × 12.5	0.5	55123	2000	1000	1500
0.015	4.1 × 8.8 × 12.5	0.5	55153	2000	1000	1500
0.018	4.4 × 8.8 × 12.5	0.5	55183	2000	1000	1300
0.022	4.2 × 8.8 × 12.5	0.5	55223	2000	1000	1500
0.027	4.2 × 9.1 × 12.5	0.5	55273	2000	1000	1300
0.033	4.6 × 9.4 × 12.5	0.5	55333	2000	1000	1300

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

C (µF)	DIMENSIONS $w_{max} \times h_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 369 ..... AND PACKAGING			
			LOOSE IN BOX			REEL
			l_t = 4.0 + 1.0/– 0.5 mm		l_t = 22.0 ± 4.0 mm	
			C-tol = ± 10 %			
			last 5 digits of catalog number	SPQ	SPQ	SPQ
Pitch = 10.0 ± 0.4 mm; d_t = 0.60 ± 0.06 mm						
0.01	4.1 × 8.7 × 12.5	0.4	65103	2000	1000	1300
0.012	4.4 × 8.9 × 12.5	0.5	65123	2000	1000	1200
0.015	4.9 × 9.2 × 12.5	0.5	65153	2000	1000	1100
0.018	5.3 × 9.5 × 12.5	0.6	65183	2000	1000	1000
0.022	5.9 × 9.9 × 12.5	0.7	65223	2000	1000	900

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