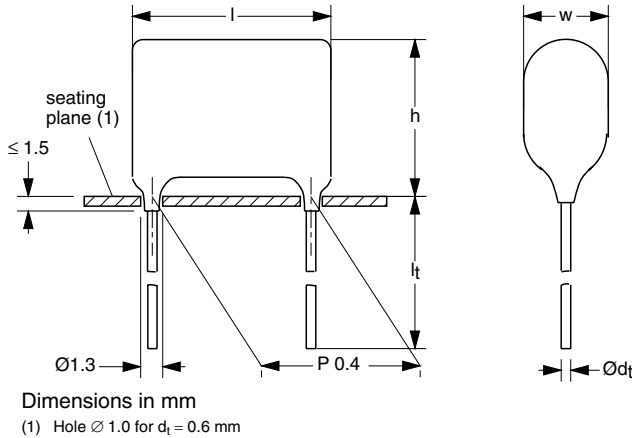


Metallized Polyester Film Capacitors MKT Radial Epoxy Lacquered Type



APPLICATIONS

Blocking and coupling. Bypass and energy reservoir

MARKING

C-value; tolerance; rated voltage

DIELECTRIC

Polyester film

ELECTRODES

Vacuum deposited 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

FEATURES

Available taped on reel and loose in box

Lead (Pb)-free product

RoHS-compliant product

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)

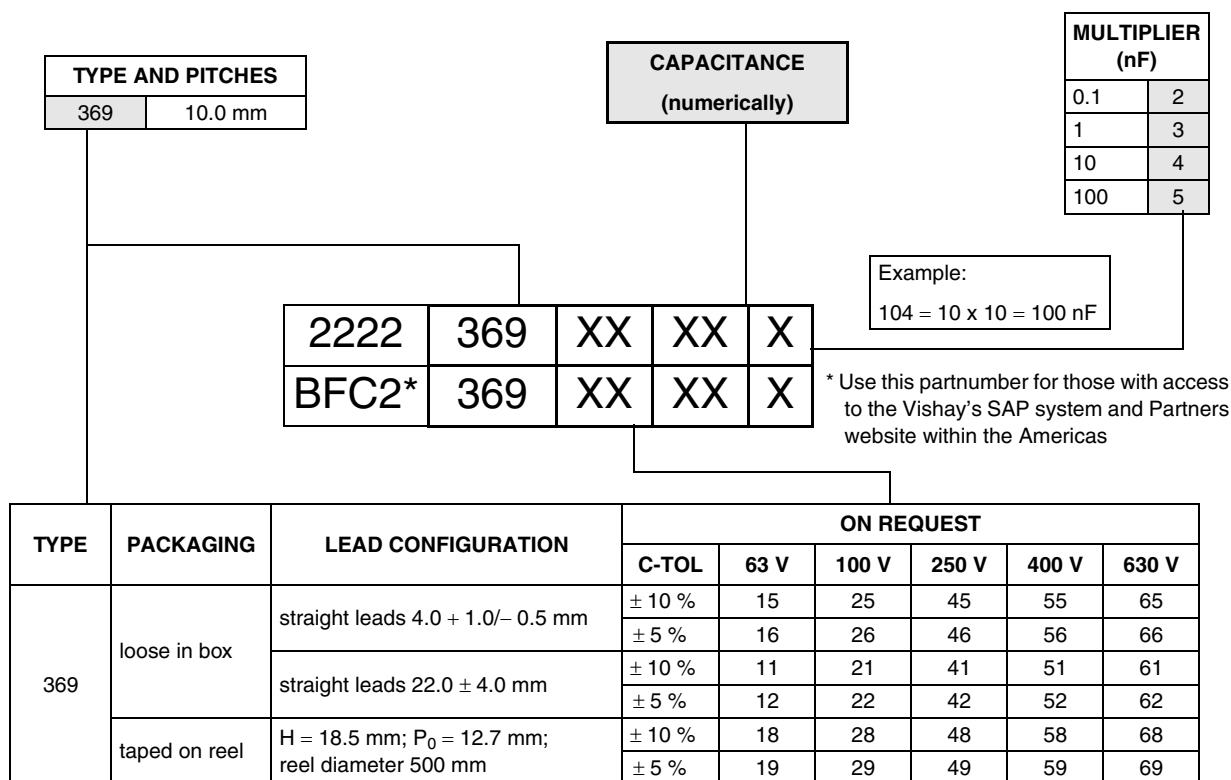
DETAIL SPECIFICATION

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



RoHS
COMPLIANT

COMPOSITION OF CATALOG NUMBER



SPECIFIC REFERENCE DATA

DESCRIPTION	VALUE				
Tangent of loss angle: C ≤ 0.47 μF 0.47 μF < C ≤ 1.0 μF C ≥ 0.1 μF	at 1 kHz		at 10 kHz		at 100 kHz
	≤ 75 × 10 ⁻⁴		≤ 130 × 10 ⁻⁴		≤ 300 × 10 ⁻⁴
	≤ 75 × 10 ⁻⁴		≤ 130 × 10 ⁻⁴		≤ 225 × 10 ⁻⁴
	≤ 75 × 10 ⁻⁴		≤ 130 × 10 ⁻⁴		≤ 300 × 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 at 100 V; 1 minute at 500 V; 1 minute	> 15000 MΩ	> 15000 MΩ	> 30000 MΩ	> 30000 MΩ	> 30000 MΩ
RC between leads, for C > 0.33 μF: at 10 V; 1 minute at 500 V; 1 minute	> 5000 s				> 10000 s
R between interconnecting leads and casing; at 10 V; 1 minute at 100 V; 1 minute at 500 V; 1 minute	> 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 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		$l_t = 22.0 \pm 4.0$ mm	SPQ
			C-tol = ± 10 %	SPQ	SPQ	
			last 5 digits of catalog number			
Pitch = 10.0 ± 0.4 mm; $d_t = 0.60 \pm 0.06$ mm						
0.22	$4.2 \times 9.3 \times 12.5$	0.4	15224	2000	1000	1300
0.27	$3.8 \times 9.0 \times 12.5$	0.4	15274	2000	1000	1300
0.33	$4.1 \times 9.3 \times 12.5$	0.4	15334	2000	1000	1300
0.39	$4.0 \times 9.2 \times 12.5$	0.4	15394	2000	1000	1300
0.47	$4.3 \times 9.5 \times 12.5$	0.5	15474	2000	1000	1200
0.56	$4.7 \times 9.8 \times 12.5$	0.5	15564	2000	1000	1200
0.68	$5.1 \times 10.2 \times 12.5$	0.5	15684	2000	1000	1100
0.82	$5.5 \times 10.7 \times 12.5$	0.6	15824	2000	1000	1000
1	$6.0 \times 11.1 \times 12.5$	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		$l_t = 22.0 \pm 4.0$ mm	SPQ
			C-tol = ± 10 %	SPQ	SPQ	
			last 5 digits of catalog number			
Pitch = 10.0 ± 0.4 mm; $d_t = 0.60 \pm 0.06$ mm						
0.056 0.068	$4.0 \times 9.1 \times 12.5$	0.4	25563 25683	2000	1000	1500
0.082	$3.7 \times 8.8 \times 12.5$	0.4	25823	2000	1000	1500
0.1	$4.0 \times 9.0 \times 12.5$	0.4	25104	2000	1000	1500
0.12	$4.3 \times 9.3 \times 12.5$	0.4	25124	2000	1000	1500
0.15	$3.9 \times 8.9 \times 12.5$	0.4	25154	2000	1000	1500
0.18	$4.2 \times 9.2 \times 12.5$	0.5	25184	2000	1000	1300
0.22	$4.5 \times 9.4 \times 12.5$	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
			$l_t = 4.0 + 1.0/- 0.5 \text{ mm}$		$l_t = 22.0 \pm 4.0 \text{ mm}$	SPQ
			C-tol = $\pm 10 \%$	SPQ	SPQ	
			last 5 digits of catalog number			
Pitch = $10.0 \pm 0.4 \text{ mm}$; $d_t = 0.60 \pm 0.06 \text{ mm}$						
0.027	$4.2 \times 8.7 \times 12.5$	0.4	45273	2000	1000	1500
0.033	$4.6 \times 8.8 \times 12.5$	0.5	45333	2000	1000	1300
0.039	$4.0 \times 8.8 \times 12.5$	0.4	45393	2000	1000	1500
0.047	$4.5 \times 9.0 \times 12.5$	0.5	45473	2000	1000	1500
0.056	$4.6 \times 8.8 \times 12.5$	0.5	45563	2000	1000	1300
0.068	$4.6 \times 9.2 \times 12.5$	0.5	45683	2000	1000	1300
0.082	$4.4 \times 9.4 \times 12.5$	0.5	45823	2000	1000	1200
0.1	$4.7 \times 9.7 \times 12.5$	0.5	45104	2000	1000	1200

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

C (μF)	DIMENSIONS $w_{\max} \times h_{\max} \times l_{\max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 369 AND PACKAGING			
			LOOSE IN BOX			REEL
			$l_t = 4.0 + 1.0/- 0.5 \text{ mm}$		$l_t = 22.0 \pm 4.0 \text{ mm}$	SPQ
			C-tol = $\pm 10 \%$	SPQ	SPQ	
			last 5 digits of catalog number			
Pitch = $10.0 \pm 0.4 \text{ mm}$; $d_t = 0.60 \pm 0.06 \text{ mm}$						
0.001	$4.5 \times 8.7 \times 12.5$	0.5	55102	2000	1000	1500
0.0012	$4.5 \times 9.0 \times 12.5$	0.5	55122	2000	1000	1500
0.0015	$4.5 \times 8.8 \times 12.5$	0.5	55152	2000	1000	1500
0.0018	$4.5 \times 8.7 \times 12.5$	0.5	55182	2000	1000	1500
0.0022	$4.0 \times 8.6 \times 12.5$	0.5	55222	2000	1000	1500
0.0027	$4.3 \times 8.9 \times 12.5$	0.5	55272	2000	1000	1500
0.0033	$4.6 \times 9.1 \times 12.5$	0.5	55332	2000	1000	1500
0.0039	$4.0 \times 8.7 \times 12.5$	0.5	55392	2000	1000	1500
0.0047	$4.1 \times 8.8 \times 12.5$	0.5	55472	2000	1000	1500
0.0056 0.0068 0.0082 0.01	$4.6 \times 9.1 \times 12.5$	0.5	55562 55682 55822 55103	2000	1000	1500
0.012	$4.0 \times 8.7 \times 12.5$	0.5	55123	2000	1000	1500
0.015	$4.1 \times 8.8 \times 12.5$	0.5	55153	2000	1000	1500
0.018	$4.4 \times 8.8 \times 12.5$	0.5	55183	2000	1000	1300
0.022	$4.2 \times 8.8 \times 12.5$	0.5	55223	2000	1000	1500
0.027	$4.2 \times 9.1 \times 12.5$	0.5	55273	2000	1000	1300
0.033	$4.6 \times 9.4 \times 12.5$	0.5	55333	2000	1000	1300

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

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



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