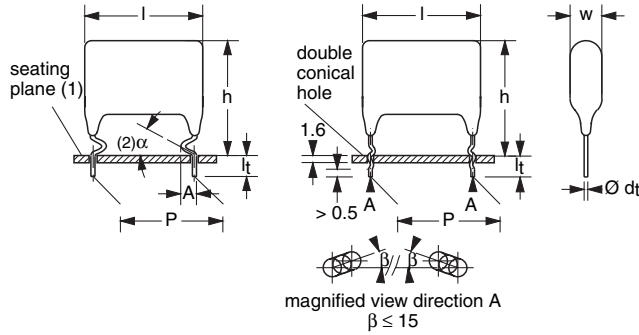


## Polyester Film Capacitors KT Radial Epoxy Lacquered Type



**Dimensions in mm**

- (1) Hole  $\varnothing$  0.8 for  $d_t$  0.6 mm  
Hole  $\varnothing$  1.0 for  $d_t$  = 0.8 mm
- (2)  $0 \leq \alpha < 50^\circ$
- (3)  $A = 2.0 \pm 0.5$  mm (pitch = 10.0 mm)  
 $A = 3.5 \pm 1.0$  mm (pitch = 15.0 mm)

**APPLICATIONS**

Consumer and industrial. Especially where high currents and/or steep pulses occur. DC or AC voltage

**MARKING**

Manufacturer emblem; C-value; tolerance; rated voltage; code for dielectric material; code for factory of origin

**DIELECTRIC**

Polyester film

**ELECTRODES**

Aluminum foil

**COATING**

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

**CONSTRUCTION**

Film/foil mono construction

**LEADS**

Tinned wire

**FEATURES**

- 10 to 15 mm lead pitch. Supplied loose in box
- Lead (Pb)-free product
- RoHS-compliant product



**RoHS**  
COMPLIANT

**CAPACITANCE RANGE (E12 SERIES)**

0.001 to 0.47  $\mu$ F

**CAPACITANCE TOLERANCE**

$\pm 20\%$ ;  $\pm 10\%$

**RATED (DC) VOLTAGE**

100 V; 250 V; 400 V; 630 V

**RATED (AC) VOLTAGE**

50 V; 80 V; 125 V; 200 V

**CLIMATIC CATEGORY**

40/100/21

**RATED TEMPERATURE**

85  $^\circ$ C

**MAXIMUM APPLICATION TEMPERATURE**

100  $^\circ$ C

**REFERENCE SPECIFICATIONS**

IEC 60384-11

**PERFORMANCE GRADE**

Grade 1 (long life)

**DETAIL SPECIFICATION**

For more detailed data and test requirements contact:  
[filmcaps.roeselare@vishay.com](mailto:filmcaps.roeselare@vishay.com)



COMPOSITION OF CATALOG NUMBER

TYPE AND PITCHES	
347	10.0 mm
	15.0 mm

**CAPACITANCE**  
(numerically; but not for lock lead)

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

Example:  
104 = 10 x 10 = 100 nF

2222	347	XX	XX	X
BFC2*	347	XX	XX	X

\* Use this partnumber for those with access to the Vishay's SAP system and Partners website within the Americas

TYPE	PACKAGING	LEAD CONFIGURATION	PREFERRED TYPES				
			C-TOL	100 V	250 V	400 V	630 V
347	loose in box	lead length 4.0 + 1.0/- 0.5 mm	± 10 %	21	41	51	61
	loose in box (lock lead)	lead length 4.0 + 1.0/- 0.5 mm	± 10 %	90	90	90	90
							height dimensions given in parenthesis
							ON REQUEST
347	loose in box	lead length 4.0 + 1.0/- 0.5 mm	± 20 %	20	40	50	60

SPECIFIC REFERENCE DATA

DESCRIPTION	VALUE			
Tangent of loss angle: C ≤ 0.47 μF	at 1 kHz		at 10 kHz	
	≤ 60 × 10 <sup>-4</sup>		≤ 110 × 10 <sup>-4</sup>	
Rated voltage pulse slope (dU/dt) <sub>R</sub>	at 100 V (DC)	at 250 V (DC)	at 400 V (DC)	at 630 V (DC)
	10 000 V/μs	10 000 V/μs	10 000 V/μs	10 000 V/μs
R between leads, for C ≤ 0.33 μF at 100 V; 1 minute	> 50 000 MΩ	> 50 000 MΩ	> 50 000 MΩ	> 50 000 MΩ
RC between leads, for C > 0.33 μF at 100 V; 1 minute	> 16 500 s	> 16 500 s		
R between interconnected leads and case (foil method)	> 30 000 MΩ			
Withstanding (DC) voltage (cut off current 10 mA); rise time 100 V/s	200 V; 1 minute	500 V; 1 minute	800 V; 1 minute	1260 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

$U_{Rdc} = 100\text{ V}$ ;  $U_{Rac} = 50\text{ V}$ ;  $U_{p-p} = 140\text{ V}$

C ( $\mu\text{F}$ )	DIMENSIONS $w_{max} \times H_{max} \times L_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 347 ..... AND PACKAGING			
			LOOSE IN BOX; $l_t = 4.0 + 1.0/- 0.5\text{ mm}$			
			C-tol = $\pm 10\%$	SPQ	C-tol = $\pm 10\%$	SPQ
			last 5 digits of catalog number		last 5 digits of catalog number	
<b>Pitch = <math>10.0 \pm 0.4\text{ mm}</math>; <math>d_t = 0.60 \pm 0.06\text{ mm}</math></b>					<b>lock lead</b>	
0.015 0.018 0.022 0.027	5.5 × 13.0 (16.0) × 13.5	0.7	21153	1250	90238	1250
			21183		90239	
			21223		90241	
			21273		90242	
0.033	6.0 × 13.5 (16.5) × 13.5	0.7	21333	2000	90236	2000
0.039	6.5 × 14.0 (17.0) × 13.5	0.8	21393	1750	90243	1750
0.047	7.0 × 14.5 (17.5) × 13.5	0.9	21473	1750	90244	1750
<b>Pitch = <math>15.0 \pm 0.4\text{ mm}</math>; <math>d_t = 0.80 \pm 0.08\text{ mm}</math></b>					<b>lock lead</b>	
0.056	5.5 × 14.0 (17.0) × 19.0	1.2	21563	1500	90245	1500
0.068	6.0 × 14.5 (17.5) × 19.0	1.3	21683	1500	90235	1500
0.082	7.0 × 15.5 (18.5) × 19.0	1.5	21823	1250	90212	1250
0.1	7.5 × 16.0 (19.0) × 19.0	1.7	21104	1000	90224	1000
0.12	8.0 × 16.5 (19.5) × 19.0	1.9	21124	1000	90246	1000
0.15	8.5 × 17.0 (20.0) × 19.0	2.3	21154	900	90247	900

$U_{Rdc} = 250\text{ V}$ ;  $U_{Rac} = 80\text{ V}$ ;  $U_{p-p} = 225\text{ V}$

C ( $\mu\text{F}$ )	DIMENSIONS $w_{max} \times H_{max} \times L_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 347 ..... AND PACKAGING			
			LOOSE IN BOX; $l_t = 4.0 + 1.0/- 0.5\text{ mm}$			
			C-tol = $\pm 10\%$	SPQ	C-tol = $\pm 10\%$	SPQ
			LAST 5 DIGITS OF CATALOG NUMBER		LAST 5 DIGITS OF CATALOG NUMBER	
<b>Pitch = <math>10.0 \pm 0.4\text{ mm}</math>; <math>d_t = 0.60 \pm 0.06\text{ mm}</math></b>					<b>lock lead</b>	
0.0082 0.01 0.012 0.015	5.5 × 13.0 (16.0) × 13.5	0.7	41822	2000	90255	1250
			41103		90256	
			41123		90257	
			41153		90258	
0.018	6.0 × 13.5 (16.5) × 13.5	0.7	41183	2000	90259	2000
0.022	6.5 × 14.0 (17.0) × 13.5	0.8	41223	2000	90225	1750
0.027	7.0 × 14.5 (17.5) × 13.5	0.9	41273	2000	90261	1750
<b>Pitch = <math>15.0 \pm 0.4\text{ mm}</math>; <math>d_t = 0.80 \pm 0.08\text{ mm}</math></b>					<b>lock lead</b>	
0.033	5.5 × 14.0 (17.0) × 19.0	1.1	41333	2000	90213	1500
0.039	6.0 × 14.5 (17.5) × 19.0	1.3	41393	2000	90262	1500
0.047	7.0 × 15.5 (18.5) × 19.0	1.4	41473	2000	90214	1250
0.056	7.5 × 16.0 (19.0) × 19.0	1.6	41563	2000	90226	1000
0.068	8.0 × 16.5 (19.5) × 19.0	1.8	41683	2000	90234	1000
0.082	8.5 × 17.0 (20.0) × 19.0	2.1	41823	1000	90263	900



Polyester Film Capacitors  
KT Radial Epoxy Lacquered Type

Vishay BCcomponents

$U_{Rdc} = 400\text{ V}$ ;  $U_{Rac} = 125\text{ V}$ ;  $U_{p-p} = 350\text{ V}$

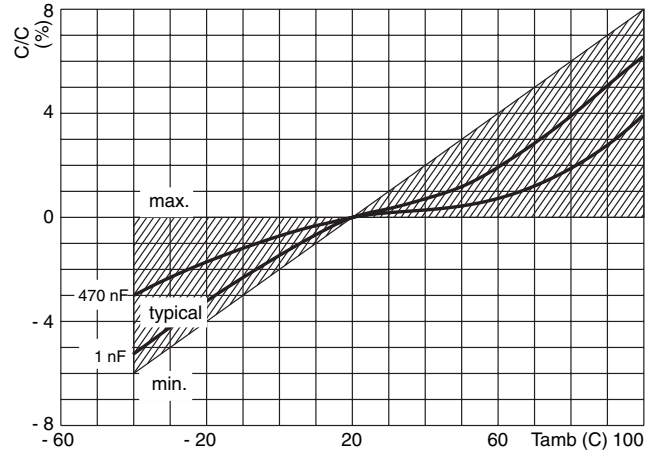
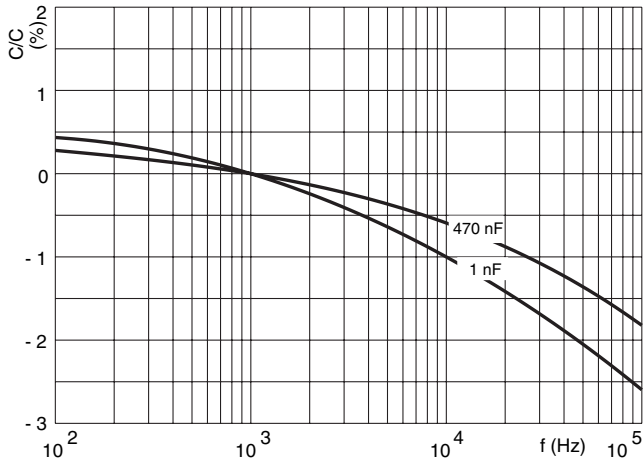
C ( $\mu\text{F}$ )	DIMENSIONS $w_{max} \times H_{max} \times L_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 347 ..... AND PACKAGING			
			LOOSE IN BOX; It = 4.0 + 1.0/- 0.5 mm			
			C-tol = $\pm 10\%$	SPQ	C-tol = $\pm 10\%$	SPQ
			LAST 5 DIGITS OF CATALOG NUMBER		LAST 5 DIGITS OF CATALOG NUMBER	
<b>Pitch = 10.0 <math>\pm</math> 0.4 mm; <math>d_t = 0.60 \pm 0.06</math> mm</b>					<b>lock lead</b>	
0.0047	5.5 $\times$ 13.0 (16.0) $\times$ 13.5	0.7	51472	2000	90237	1250
0.0056			51562		90267	
0.0068			51682		90268	
0.0082			51822		90269	
0.01	6.0 $\times$ 13.5 (16.5) $\times$ 13.5	0.7	51103	2000	90218	2000
0.012	6.5 $\times$ 14.0 (17.0) $\times$ 13.5	0.8	51123	2000	90221	1750
0.015	7.0 $\times$ 14.5 (17.5) $\times$ 13.5	0.9	51153	2000	90219	1750
<b>Pitch = 15.0 <math>\pm</math> 0.4 mm; <math>d_t = 0.80 \pm 0.08</math> mm</b>					<b>lock lead</b>	
0.018	5.5 $\times$ 14.0 (17.0) $\times$ 19.0	1.1	51183	2000	90222	1500
0.022	6.0 $\times$ 14.5 (17.5) $\times$ 19.0	1.2	51223	2000	90223	1500
0.027	7.0 $\times$ 15.5 (18.5) $\times$ 19.0	1.4	51273	2000	90232	1250
0.033	7.5 $\times$ 16.0 (19.0) $\times$ 19.0	1.6	51333	2000	90227	1000
0.039	8.0 $\times$ 16.5 (19.5) $\times$ 19.0	1.8	51393	2000	90228	1000
0.047	8.5 $\times$ 17.0 (20.0) $\times$ 19.0	2.1	51473	1000	90229	900

$U_{Rdc} = 630\text{ V}$ ;  $U_{Rac} = 200\text{ V}$ ;  $U_{p-p} = 560\text{ V}$

C ( $\mu\text{F}$ )	DIMENSIONS $w_{max} \times H_{max} \times L_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 347 ..... AND PACKAGING			
			LOOSE IN BOX; It = 4.0 + 1.0/- 0.5 mm			
			C-tol = $\pm 10\%$	SPQ	C-tol = $\pm 10\%$	SPQ
			LAST 5 DIGITS OF CATALOG NUMBER		LAST 5 DIGITS OF CATALOG NUMBER	
<b>Pitch = 10.0 <math>\pm</math> 0.4 mm; <math>d_t = 0.60 \pm 0.06</math> mm</b>					<b>lock lead</b>	
0.001	5.5 $\times$ 13.0 (16.0) $\times$ 13.5	0.7	61102	2000	90276	1250
0.0012			61122		90277	
0.0015			61152		90278	
0.0018			61182		90279	
0.0022			61222		90281	
0.0027			61272		90282	
0.0033			61332		90283	
0.0039			61392		90284	
0.0047	6.0 $\times$ 13.5 (16.5) $\times$ 13.5	0.7	61472	2000	90285	2000
0.0056	6.5 $\times$ 14.0 (17.0) $\times$ 13.5	0.8	61562	2000	90286	1750
0.0068	7.0 $\times$ 14.5 (17.5) $\times$ 13.5	0.9	61682	2000	90287	1750
<b>Pitch = 15.0 <math>\pm</math> 0.4 mm; <math>d_t = 0.80 \pm 0.08</math> mm</b>					<b>lock lead</b>	
0.0082	5.5 $\times$ 14.0 (17.0) $\times$ 19.0	1.1	61822	2000	90288	1500
0.01	6.0 $\times$ 14.5 (17.5) $\times$ 19.0	1.2	61103	2000	90289	1500
0.012	7.0 $\times$ 15.5 (18.5) $\times$ 19.0	1.3	61123	2000	90291	1250
0.015	7.5 $\times$ 16.0 (19.0) $\times$ 19.0	1.5	61153	2000	90292	1000
0.018	8.0 $\times$ 16.5 (19.5) $\times$ 19.0	1.7	61183	2000	90293	1000
0.022	8.5 $\times$ 17.0 (20.0) $\times$ 19.0	2.0	61223	1000	90294	900



CAPACITANCE





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