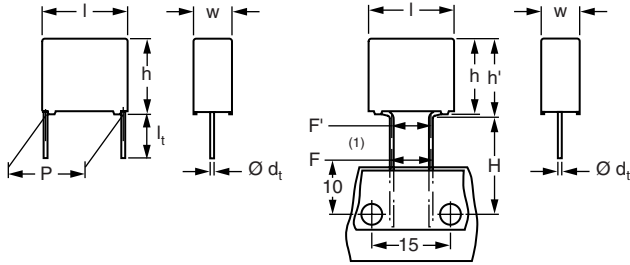


Interference Suppression Film Capacitors MKP Radial Potted Type



Dimensions in mm

Note

- (1) $|F - F'| < 0.3$ mm
- $F = 7.5 + 0.6/-0.1$ mm

APPLICATIONS

For standard across the line X2 applications.
See also application note: www.vishay.com/doc?28153

REFERENCE STANDARDS

- “IEC 60384-14 ed-3 and EN 60384-14”
- “IEC 60065, pass. flamm. class B”
- CSA-C22.2 No. 1; UL1414
- CSA-E384-14; UL1283; CQC

MARKING

C-value; tolerance; rated voltage; sub-class; manufacturer’s type designation; code for dielectric material, manufacturer location; manufacturer’s logo; year and week; safety approvals

DIELECTRIC

Polypropylene film

ELECTRODES

Metallized film

CONSTRUCTION

Mono construction

FEATURES

- 7.5 mm to 27.5 mm lead pitch
- Supplied loose in box, taped: ammpack or reel
- RoHS compliant

RATED VOLTAGE

AC 310 V; 50 Hz to 60 Hz

PERMISSIBLE DC VOLTAGE

- DC 630 V ($T_{amb} \leq 110$ °C)
- DC voltage degrade 12.7 V/°C (110 °C < $T_{amb} \leq 125$ °C)
- DC 440 V ($T_{amb} = 125$ °C)

ENCAPSULATION

Plastic case, epoxy resin sealed, flame retardant UL-class 94 V-0

CLIMATIC TESTING CLASS ACC. TO IEC 60068-1

55/125/56/B

CAPACITANCE RANGE (E12 SERIES)

E12 series 0.001 µF to 2.2 µF
Preferred values acc. to E6

CAPACITANCE TOLERANCE

± 20 %; ± 10 %; ± 5 %

LEADS

Tinned wire

MAXIMUM APPLICATION TEMPERATURE

125 °C

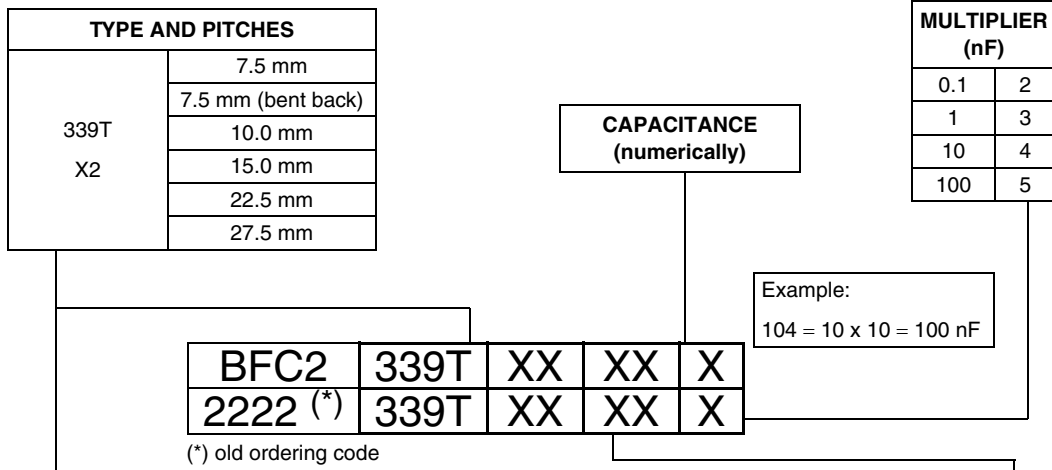
DETAIL SPECIFICATION

For more detailed data and test requirements contact:
RFI@vishay.com





COMPOSITION OF CATALOG NUMBER



TYPE	PACKAGING	STANDARD DIMENSIONS	C-TOL.	CODE NUMBER		
339T X2	Loose in box	Lead length 3.5 + 1/- 0.5 mm or 3.5 ± 0.3 mm	± 20 %	BFC2 339T 20...		
		Lead length 5.0 ± 1.0 mm		BFC2 339T 22...		
		Lead length 25.0 ± 2.0 mm		BFC2 339T 24...		
	Taped (1)	Reel: H = 18.5 mm; P ₀ = 12.7 mm or 15.0 mm		BFC2 339T 26...		
		Ammopack: H = 18.5 mm; P ₀ = 12.7 mm		BFC2 339T 28...		
		Reel: Pitch 7.5 mm (bent back), H = 16.0 mm; P ₀ = 15.0 mm		BFC2 339T 56...		
	Ammopack: Pitch 7.5 mm (bent back), H = 16.0 mm; P ₀ = 15.0 mm			BFC2 339T 58...		
		Loose in box		Lead length 3.5 + 1/- 0.5 mm or 3.5 ± 0.3 mm	± 10 %	BFC2 339T 10...
				Lead length 5.0 ± 1.0 mm		BFC2 339T 12...
	Lead length 25.0 ± 2.0 mm		BFC2 339T 14...			
	Taped (1)	Reel: H = 18.5 mm; P ₀ = 12.7 mm or 15.0 mm	BFC2 339T 16...			
		Ammopack: H = 18.5 mm; P ₀ = 12.7 mm	BFC2 339T 18...			
		Reel: Pitch 7.5 mm (bent back), H = 16.0 mm; P ₀ = 15.0 mm	BFC2 339T 66...			
	Ammopack: Pitch 7.5 mm (bent back), H = 16.0 mm; P ₀ = 15.0 mm		BFC2 339T 68...			
		Loose in box	Lead length 3.5 + 1/- 0.5 mm or 3.5 ± 0.3 mm	± 5 %		BFC2 339T 50...
			Lead length 5.0 ± 1.0 mm			BFC2 339T 52...
	Lead length 25.0 ± 2.0 mm		BFC2 339T 54...			
	Taped (1)	Reel: H = 18.5 mm; P ₀ = 12.7 mm or 15.0 mm	BFC2 339T 36...			
		Ammopack: H = 18.5 mm; P ₀ = 12.7 mm	BFC2 339T 38...			
		Reel: Pitch 7.5 mm (bent back), H = 16.0 mm; P ₀ = 15.0 mm	BFC2 339T 76...			
	Ammopack: Pitch 7.5 mm (bent back), H = 16.0 mm; P ₀ = 15.0 mm		BFC2 339T 78...			
		PACKAGING ALTERNATIVE LARGER PITCH SIZES			C-TOL.	CODE NUMBER
		Loose in box	Lead length 3.5 + 1/- 0.5 mm or 3.5 ± 0.3 mm		± 20 %	BFC2 339T 21...
	Lead length 5.0 ± 1.0 mm		BFC2 339T 23...			
Lead length 25.0 ± 2.0 mm	BFC2 339T 25...					
Taped (1)	Reel or ammpack: H = 18.5 mm; P ₀ = 12.7 mm	BFC2 339T 27...				
	Lead length 3.5 + 1/- 0.5 mm or 3.5 ± 0.3 mm	BFC2 339T 11...				
Loose in box	Lead length 5.0 ± 1.0 mm	± 10 %	BFC2 339T 13...			
	Lead length 25.0 ± 2.0 mm		BFC2 339T 15...			
	Taped (1)		Reel or ammpack: H = 18.5 mm; P ₀ = 12.7 mm	BFC2 339T 17...		
Lead length 3.5 + 1/- 0.5 mm or 3.5 ± 0.3 mm			BFC2 339T 51...			
Loose in box	Lead length 5.0 ± 1.0 mm		± 5 %	BFC2 339T 53...		
	Lead length 25.0 ± 2.0 mm			BFC2 339T 55...		
	Taped (1)	Reel: H = 18.5 mm; P ₀ = 12.7 mm or 15.0 mm		BFC2 339T 46...		
Ammopack: H = 18.5 mm; P ₀ = 12.7 mm		BFC2 339T 48...				

Note

(1) For detailed tape specification refer to Packaging Information: www.vishay.com/doc?28139 or end of catalog



SPECIFIC REFERENCE DATA

DESCRIPTION	VALUE	
Rated AC voltage (U_{Rac})	310 V	
Permissible DC voltage (U_{Rdc})	630 V	
Tangent of loss angle: $C < 470 \text{ nF}$ $470 \text{ nF} \leq C \leq 1 \mu\text{F}$ $C > 1 \mu\text{F}$	at 1 kHz	at 10 kHz
	$\leq 10 \times 10^{-4}$	$\leq 20 \times 10^{-4}$
	$\leq 20 \times 10^{-4}$	$\leq 70 \times 10^{-4}$
	$\leq 30 \times 10^{-4}$	-
Rated voltage pulse slope (dU/dt) _R at 435 Vdc	100 V/ μ s	
R between leads, for $C \leq 0.33 \mu\text{F}$ at 100 V; 1 min	> 15 000 M Ω	
RC between leads, for $C > 0.33 \mu\text{F}$ at 100 V; 1 min	> 5000 s	
R between leads and case; 100 V; 1 min	> 30 000 M Ω	
Withstanding (DC) voltage (cut off current 10 mA); rise time 100 V/s: $C \leq 1 \mu\text{F}$ $C > 1 \mu\text{F}$	2200 V; 1 min	
	1800 V; 1 min	
Withstanding (AC) voltage between leads and case	2120 V; 1 min	
Maximum application temperature	125 °C	

Pitch: 7.5 mm; C-tol. = $\pm 20 \%$

C (μF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽²⁾	CATALOG NUMBER BFC2 339T XXXXX AND PACKAGING						
			LOOSE IN BOX					AMMOPACK ⁽¹⁾	
			Short leads			Long leads		H = 18.5 mm P ₀ = 12.7 mm	
			$l_t =$ 3.5 + 1/- 0.5 mm	$l_t =$ 5.0 \pm 1.0 mm	SPQ	$l_t =$ 25.0 \pm 2.0 mm	SPQ		SPQ
Pitch = 7.5 \pm 0.4 mm; $d_t = 0.50 \pm 0.05$ mm									
0.001	4.0 x 9.0 x 10.0	0.45	20102	22102		24102		28102	1250
0.0015			20152	22152		24152		28152	
0.0022			20222	22222		24222		28222	
0.0033			20332	22332		24332		28332	
0.0047			20472	22472	1500	24472	1000	28472	
0.0068			20682	22682		24682		28682	
0.01			20103	22103		24103		28103	
0.015			20153	22153		24153		28153	
0.022			20223	22223		24223		28223	
0.033			5.0 x 10.5 x 10.0	0.60	20333	22333	1000	24333	
0.047	6.0 x 11.5 x 10.0	0.80	20473	22473	750	24473	1000	28473	750

Notes

⁽¹⁾ H = In-tape height; P₀ = Sprocket hole distance; for detailed specifications refer to "Packaging Information" www.vishay.com/doc?28139

⁽²⁾ Weight for short lead product only

• SPQ = Standard Packing Quantity



Interference Suppression Film Capacitors Vishay BCcomponents
MKP Radial Potted Type

Pitch: 7.5 mm bent back (only taped); C-tol. = ± 20 %

C (μF)	DIMENSIONS w x h' x l (mm)	MASS (g) ⁽²⁾	CATALOG NUMBER BFC2 339T XXXXX AND PACKAGING			
			LOOSE IN BOX			
			AMMOPACK		REEL (500 mm) ⁽¹⁾	
			H = 16.0 mm P ₀ = 15.0 mm	SPQ	H = 16.0 mm P ₀ = 15.0 mm	SPQ
Bent back pitch = 7.5 ± 0.4 mm; d_t = 0.60 ± 0.06 mm						
0.068 0.1	6.0 x 14.0 x 12.5	1.1	58683 58104	1000	56683 56104	1500
Bent back pitch = 7.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm						
0.15	7.0 x 15.5 x 17.5	1.8	-	-	56154	700
0.22	8.5 x 17.0 x 17.5	2.4	-	-	56224	550
0.33	10.0 x 18.5 x 17.5	3.0	-	-	56334	500

Notes

- ⁽¹⁾ Reel diameter = 356 mm is available on request
- ⁽²⁾ Weight for short lead product only
- SPQ = Standard Packing Quantity

Pitch: 7.5 mm; C-tol. = ± 10 %

C (μF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽²⁾	CATALOG NUMBER BFC2 339T XXXXX AND PACKAGING						
			LOOSE IN BOX					AMMOPACK ⁽¹⁾	
			Short leads			Long leads		H = 18.5 mm P ₀ = 12.7 mm	
			l _t = 3.5 + 1/- 0.5 mm	l _t = 5.0 ± 1.0 mm	SPQ	l _t = 25.0 ± 2.0 mm	SPQ		SPQ
Pitch = 7.5 ± 0.4 mm; d_t = 0.50 ± 0.05 mm									
0.001	4.0 x 9.0 x 10.0	0.45	10102	12102	1500	14102	1000	18102	1250
0.0012			10122	12122		14122		18122	
0.0015			10152	12152		14152		18152	
0.0018			10182	12182		14182		18182	
0.0022			10222	12222		14222		18222	
0.0027			10272	12272		14272		18272	
0.0033			10332	12332		14332		18332	
0.0039			10392	12392		14392		18392	
0.0047			10472	12472		14472		18472	
0.0056			10562	12562		14562		18562	
0.0068			10682	12682		14682		18682	
0.0082			10822	12822		14822		18822	
0.01			10103	12103		14103		18103	
0.012			10123	12123		14123		18123	
0.015			10153	12153		14153		18153	
0.018			10183	12183		14183		18183	
0.022			10223	12223		14223		18223	
0.027 0.033	5.0 x 10.5 x 10.0	0.60	10273 10333	12273 12333	1000	14273 14333	1250	18273 18333	1000
0.039 0.047	6.0 x 11.5 x 10.0	0.80	10393 10473	12393 12473	750	14393 14473	1000	18393 18473	750

Notes

- ⁽¹⁾ H = In-tape height; P₀ = Sprocket hole distance; for detailed specifications refer to "Packaging Information" www.vishay.com/doc?28139
- ⁽²⁾ Weight for short lead product only
- SPQ = Standard Packing Quantity

MKP 339T X2



Vishay BCcomponents

Interference Suppression Film Capacitors
MKP Radial Potted Type

Bent back pitch: 7.5 mm (only taped); C-tol. = ± 10 %

C (µF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽²⁾	CATALOG NUMBER BFC2 339T XXXXX AND PACKAGING			
			LOOSE IN BOX			
			AMMOPACK		REEL (500 mm) ⁽¹⁾	
			H = 16.0 mm P ₀ = 15.0 mm	SPQ	H = 16.0 mm P ₀ = 15.0 mm	SPQ
Bent back pitch = 7.5 ± 0.4 mm; d_t = 0.60 ± 0.06 mm						
0.056	5.0 x 13.0 x 12.5	0.9	68563	1300	66563	1900
0.068	6.0 x 14.0 x 12.5	1.1	68683	1000	66683	1500
0.082			68823		66823	
Bent back pitch = 7.5 ± 0.4 mm; d_t = 0.60 ± 0.06 mm						
0.1	6.0 x 14.0 x 17.5	1.4	-	-	66104	800
Bent back pitch = 7.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm						
0.12	7.0 x 15.5 x 17.5	1.8	-	-	66124	700
0.15	8.5 x 17.0 x 17.5	2.4	-	-	66154	550
0.18			-	-	66184	
0.22	10.0 x 18.5 x 17.5	3.0	-	-	66224	500
0.27			-	-	66274	

Notes

⁽¹⁾ Reel diameter = 356 mm is available on request

⁽²⁾ Weight for short lead product only

• SPQ = Standard Packing Quantity

Pitch: 7.5 mm; C-tol. = ± 5 %

C (µF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽²⁾	CATALOG NUMBER BFC2 339T XXXXX AND PACKAGING						
			LOOSE IN BOX					AMMOPACK ⁽¹⁾	
			Short leads			Long leads		H = 18.5 mm P ₀ = 12.7 mm	
			$l_t = 3.5 + 1/-0.5$ mm	$l_t = 5.0 \pm 1.0$ mm	SPQ	$l_t = 25.0 \pm 2.0$ mm	SPQ		SPQ
Pitch = 7.5 ± 0.4 mm; d_t = 0.50 ± 0.05 mm									
0.001	4.0 x 9.0 x 10.0	0.45	50102	52102		54102		38102	
0.0012			50122	52122		54122		38122	
0.0015			50152	52152		54152		38152	
0.0018			50182	52182		54182		38182	
0.0022			50222	52222		54222		38222	
0.0027			50272	52272		54272		38272	
0.0033			50332	52332		54332		38332	
0.0039			50392	52392		54392		38392	
0.0047			50472	52472	1500	54472	1000	38472	1250
0.0056			50562	52562		54562		38562	
0.0068			50682	52682		54682		38682	
0.0082			50822	52822		54822		38822	
0.01			50103	52103		54103		38103	
0.012			50123	52123		54123		38123	
0.015			50153	52153		54153		38153	
0.018			50183	52183		54183		38183	
0.022			50223	52223		54223		38223	
0.027	5.0 x 10.5 x 10.0	0.60	50273	52273	1000	54273	1250	38273	1000
0.033			50333	52333		54333		38333	
0.039	6.0 x 11.5 x 10.0	0.80	50393	52393	750	54393	1000	38393	750
0.047			50473	52473		54473		38473	

Notes

⁽¹⁾ H = In-tape height; P₀ = Sprocket hole distance; for detailed specifications refer to "Packaging Information" www.vishay.com/doc?28139

⁽²⁾ Weight for short lead product only

• SPQ = Standard Packing Quantity



Interference Suppression Film Capacitors Vishay BCcomponents
MKP Radial Potted Type

Bent back pitch: 7.5 mm (only taped); C-tol. = ± 5 %

C (µF)	DIMENSIONS w x h' x l (mm)	MASS (g) ⁽²⁾	CATALOG NUMBER BFC2 339T XXXXX AND PACKAGING			
			AMMOPACK		REEL (500 mm) ⁽¹⁾	
			H = 16.0 mm P ₀ = 15.0 mm	SPQ	H = 16.0 mm P ₀ = 15.0 mm	SPQ
Bent back pitch = 7.5 ± 0.4 mm; d_t = 0.60 ± 0.06 mm						
0.056	5.0 x 13.0 x 12.5	0.9	78563	1300	76563	1900
0.068 0.082	6.0 x 14.0 x 12.5	1.1	78683 78823	1000	76683 76823	1500
0.1	6.0 x 14.0 x 17.5	1.4	-	-	76104	800
Bent back pitch = 7.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm						
0.12	7.0 x 15.5 x 17.5	1.8	-	-	76124	700
0.15 0.18	8.5 x 17.0 x 17.5	2.4	-	-	76154 76184	550
0.22 0.27	10.0 x 18.5 x 17.5	3.0	-	-	76224 76274	500

Notes

- ⁽¹⁾ Reel diameter = 356 mm is available on request
- ⁽²⁾ Weight for short lead product only
- SPQ = Standard Packing Quantity

Pitch: 10.0 mm; C-tol. = ± 20 %

C (µF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 339T XXXXX AND PACKAGING								
			LOOSE IN BOX					AMMOPACK ⁽¹⁾		LARGE REEL (500 mm) ^{(1) (2)}	
			Short leads			Long leads		H = 18.5 mm P ₀ = 12.7 mm		H = 18.5 mm P ₀ = 15.0 mm	
			$l_t = 3.5 + 1/- 0.5$ mm	$l_t = 5.0 \pm 1.0$ mm	SPQ	$l_t = 25.0 \pm 2.0$ mm	SPQ		SPQ		SPQ
Pitch = 10.0 ± 0.4 mm; d_t = 0.60 ± 0.06 mm											
0.001	4.0 x 10.0 x 12.5	0.60	21102	23102		25102		27102			
0.0015			21152	23152		25152		27152			
0.0022			21222	23222		25222		27222			
0.0033			21332	23332		25332		27332			
0.0047			21472	23472	1000	25472	1250	27472	950	-	
0.0068			21682	23682		25682		27682			
0.01			21103	23103		25103		27103			
0.015			21153	23153		25153		27153			
0.022			21223	23223		25223		27223			
0.033			21333	23333		25333		27333			
0.047	5.0 x 11.0 x 12.5	0.82	21473	23473	1000	25473	1000	27473	750	26473	1900
0.068	6.0 x 12.0 x 12.5	1.10	21683	23683	750	25683	750	27683	600	26683	1500
0.1			20104	22104		24104		28104		26104	

Notes

- ⁽¹⁾ H = In-tape height; P₀ = Sprocket hole distance; for detailed specifications refer to "Packaging Information" www.vishay.com/doc?28139
- ⁽²⁾ Reel diameter = 356 mm is available on request
- ⁽³⁾ Weight for short lead product only
- SPQ = Standard Packing Quantity

MKP 339T X2

Vishay BCcomponents

Interference Suppression Film Capacitors
MKP Radial Potted Type



Pitch: 10.0 mm; C-tol. = ± 10 %

C (μF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 339T XXXXX AND PACKAGING								
			LOOSE IN BOX					AMMOPACK ⁽¹⁾		LARGE REEL (500 mm) ^{(1) (2)}	
			Short leads			Long leads		H = 18.5 mm P ₀ = 12.7 mm		H = 18.5 mm P ₀ = 15.0 mm	
			$l_t =$ 3.5 + 1/- 0.5 mm	$l_t =$ 5.0 ± 1.0 mm	SPQ	$l_t =$ 25.0 ± 2.0 mm	SPQ		SPQ		SPQ
Pitch = 10.0 ± 0.4 mm; d_t = 0.60 ± 0.06 mm											
0.001	4.0 x 10.0 x 12.5	0.60	11102	13102	1000	15102	1250	17102	950	-	
0.0012			11122	13122		15122		17122			
0.0015			11152	13152		15152		17152			
0.0018			11182	13182		15182		17182			
0.0022			11222	13222		15222		17222			
0.0027			11272	13272		15272		17272			
0.0033			11332	13332		15332		17332			
0.0039			11392	13392		15392		17392			
0.0047			11472	13472		15472		17472			
0.0056			11562	13562		15562		17562			
0.0068			11682	13682		15682		17682			
0.0082			11822	13822		15822		17822			
0.01			11103	13103		15103		17103			
0.012			11123	13123		15123		17123			
0.015			11153	13153		15153		17153			
0.018			11183	13183		15183		17183			
0.022			11223	13223		15223		17223			
0.027			11273	13273		15273		17273			
0.033	11333	13333	15333	17333							
0.039	11393	13393	15393	17393							
0.047	5.0 x 11.0 x 12.5	0.82	11473	13473	1000	15473	1000	17473	750	16473	1900
0.056			11563	13563		15563		17563		16563	
0.068	6.0 x 12.0 x 12.5	1.10	10683	12683	750	14683	750	18683	600	16683	1500
0.082			10823	12823		14823		18823		16823	

Notes

⁽¹⁾ H = In-tape height; P₀ = Sprocket hole distance; for detailed specifications refer to "Packaging Information" www.vishay.com/doc?28139

⁽²⁾ Reel diameter = 356 mm is available on request

⁽³⁾ Weight for short lead product only

• SPQ = Standard Packing Quantity



Interference Suppression Film Capacitors Vishay BCcomponents
MKP Radial Potted Type

Pitch: 10.0 mm; C-tol. = ± 5 %

C (µF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 339T XXXXX AND PACKAGING									
			LOOSE IN BOX						AMMOPACK ⁽¹⁾		LARGE REEL (500 mm) ^{(1) (2)}	
			Short leads			Long leads			H = 18.5 mm P ₀ = 12.7 mm		H = 18.5 mm P ₀ = 15.0 mm	
			$l_t =$ 3.5 + 1/- 0.5 mm	$l_t =$ 5.0 ± 1.0 mm	SPQ	$l_t =$ 25.0 ± 2.0 mm	SPQ		SPQ		SPQ	
Pitch = 10.0 ± 0.4 mm; d _t = 0.60 ± 0.06 mm												
0.001	4.0 x 10.0 x 12.5	0.60	51102	53102		55102		48102				
0.0012			51122	53122		55122		48122				
0.0015			51152	53152		55152		48152				
0.0018			51182	53182		55182		48182				
0.0022			51222	53222		55222		48222				
0.0027			51272	53272		55272		48272				
0.0033			51332	53332		55332		48332				
0.0039			51392	53392		55392		48392				
0.0047			51472	53472		55472		48472				
0.0056			51562	53562	1000	55562	1250	48562	950	-		
0.0068			51682	53682		55682		48682				
0.0082			51822	53822		55822		48822				
0.01			51103	53103		55103		48103				
0.012			51123	53123		55123		48123				
0.015			51153	53153		55153		48153				
0.018			51183	53183		55183		48183				
0.022			51223	53223		55223		48223				
0.027	51273	53273		55273		48273						
0.033	51333	53333		55333		48333						
0.039	5.0 x 11.0 x 12.5	0.82	51393	53393		55393		48393		36393		
0.047			51473	53473	1000	55473	1000	48473	750	36473	1900	
0.056			51563	53563		55563		48563		36563		
0.068	6.0 x 12.0 x 12.5	1.10	50683	52683	750	54683	750	38683	600	36683	1500	
0.082			50823	52823		54823		38823		36823		

Notes

⁽¹⁾ H = In-tape height; P₀ = Sprocket hole distance; for detailed specifications refer to "Packaging Information" www.vishay.com/doc?28139

⁽²⁾ Reel diameter = 356 mm is available on request

⁽³⁾ Weight for short lead product only

• SPQ = Standard Packing Quantity

MKP 339T X2



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Pitch: 15.0 mm; C-tol. = ± 20 %

C (µF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 339T XXXXX AND PACKAGING						
			LOOSE IN BOX					REEL (500 mm) ^{(1) (2)}	
			Short leads			Long leads		H = 18.5 mm P ₀ = 12.7 mm	
			$l_t =$ 3.5 ± 0.3 mm	$l_t =$ 5.0 ± 1.0 mm	SPQ	$l_t =$ 25.0 ± 2.0 mm	SPQ		SPQ
Pitch = 15 ± 0.4 mm; d_t = 0.60 ± 0.06 mm									
0.01	5.0 x 11.0 x 17.5	1.0	90001	90007	1250	90014	1000	90021	1100
0.015			90002	90008		90015		90022	
0.022			90003	90009		90016		90023	
0.033			90004	90011		90017		90024	
0.047			90005	90012		90018		90025	
0.068			90006	90013		90019		90026	
0.1	6.0 x 12.0 x 17.5	1.4	21104	23104	1000	25104	1000	27104	900
Pitch = 15 ± 0.4 mm; d_t = 0.80 ± 0.08 mm									
0.15	7.0 x 13.5 x 17.5	1.8	20154	22154	750	24154	500	26154	800
0.22	8.5 x 15.0 x 17.5	2.4	20224	22224	750	24224	500	26224	650
0.33	10.0 x 16.5 x 17.5	3.0	20334	22334	500	24334	450	26334	600

Notes

- (1) H = In-tape height; P₀ = Sprocket hole distance; for detailed specifications refer to "Packaging Information" www.vishay.com/doc?28139
- (2) Reel diameter = 356 mm is available on request
- (3) Weight for short lead product only
- SPQ = Standard Packing Quantity

Pitch: 15.0 mm; C-tol. = ± 10 %

C (µF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 339T XXXXX AND PACKAGING						
			LOOSE IN BOX					REEL (500 mm) ^{(1) (2)}	
			Short leads			Long leads		H = 18.5 mm P ₀ = 12.7 mm	
			$l_t =$ 3.5 ± 0.3 mm	$l_t =$ 5.0 ± 1.0 mm	SPQ	$l_t =$ 25.0 ± 2.0 mm	SPQ		SPQ
Pitch = 15 ± 0.4 mm; d_t = 0.60 ± 0.06 mm									
0.01	5.0 x 11.0 x 17.5	1.0	90027	90039	1250	90052	1000	90064	1100
0.012			90028	90041		90053		90065	
0.015			90029	90042		90054		90066	
0.018			90031	90043		90055		90067	
0.022			90032	90044		90056		90068	
0.027			90033	90045		90057		90069	
0.033			90034	90046		90058		90071	
0.039			90035	90047		90059		90072	
0.047			90036	90048		90061		90073	
0.056			90037	90049		90062		90074	
0.068			11683	13683		15683		17683	
0.082			6.0 x 12.0 x 17.5	1.4		11823		13823	
0.1	11104	13104			15104	17104			
Pitch = 15 ± 0.4 mm; d_t = 0.80 ± 0.08 mm									
0.12	7.0 x 13.5 x 17.5	1.8	10124	12124	750	14124	500	16124	800
0.15	8.5 x 15.0 x 17.5	2.4	10154	12154	750	14154	500	16154	650
0.18			10184	12184		14184		16184	
0.22	10.0 x 16.5 x 17.5	3.0	10224	12224	500	14224	450	16224	600
0.27			10274	12274		14274		16274	

Notes

- (1) H = In-tape height; P₀ = Sprocket hole distance; for detailed specifications refer to "Packaging Information" www.vishay.com/doc?28139
- (2) Reel diameter = 356 mm is available on request
- (3) Weight for short lead product only
- SPQ = Standard Packing Quantity



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Pitch: 15.0 mm; C-tol. = ± 5 %

C (µF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 339T XXXXX AND PACKAGING						
			LOOSE IN BOX					REEL (500 mm) ^{(1) (2)}	
			Short leads			Long leads		H = 18.5 mm P ₀ = 12.7 mm	
			$l_t =$ 3.5 ± 0.3 mm	$l_t =$ 5.0 ± 1.0 mm	SPQ	$l_t =$ 25.0 ± 2.0 mm	SPQ		SPQ
Pitch = 15 ± 0.4 mm; d_t = 0.60 ± 0.06 mm									
0.01	5.0 x 11.0 x 17.5	1	90221	90232	1250	90243	1000	90254	1100
0.012			90222	90233		90244		90255	
0.015			90223	90234		90245		90256	
0.018			90224	90235		90246		90257	
0.022			90225	90236		90247		90258	
0.027			90226	90237		90248		90259	
0.033			90227	90238		90249		90261	
0.039			90228	90239		90251		90262	
0.047			90229	90241		90252		90263	
0.056			90231	90242		90253		90264	
0.068	51683	53683	55683	46683					
0.082	6.0 x 12.0 x 17.5	1.4	51823	53823	1000	55823	1000	46823	900
0.1			50104	52104		54104		46104	
Pitch = 15 ± 0.4 mm; d_t = 0.80 ± 0.08 mm									
0.12	7.0 x 13.5 x 17.5	1.8	50124	52124	750	54124	500	36124	800
0.15	8.5 x 15.0 x 17.5	2.4	50154	52154	750	54154	500	36154	650
0.18			50184	52184		54184		36184	
0.22	10.0 x 16.5 x 17.5	3	50224	52224	500	54224	450	36224	600
0.27			50274	52274		54274		36274	

Notes

- (1) H = In-tape height; P₀ = Sprocket hole distance; for detailed specifications refer to "Packaging Information" www.vishay.com/doc?28139
- (2) Reel diameter = 356 mm is available on request
- (3) Weight for short lead product only
- SPQ = Standard Packing Quantity

Pitch: 22.5 mm; C-tol. = ± 20 %

C (µF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 339T XXXXX AND PACKAGING						
			LOOSE IN BOX					REEL (500 mm) ^{(1) (2)}	
			Short leads			Long leads		H = 18.5 mm P ₀ = 12.7 mm	
			$l_t =$ 3.5 ± 0.3 mm	$l_t =$ 5.0 ± 1.0 mm	SPQ	$l_t =$ 25.0 ± 2.0 mm	SPQ		SPQ
Pitch = 22.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm									
0.15	6.0 x 15.5 x 26.0	2.4	21154	23154	300	25154	250	27154	600
0.22			21224	21224		25224		27224	
0.33	8.5 x 18.0 x 26.0	3.8	21334	23334	200	25334	250	27334	450
0.47			21474	23474		25474		27474	
0.68	12.0 x 22.0 x 26.0	7.8	20684	22684	150	24684	200	26684	300

Notes

- (1) H = In-tape height; P₀ = Sprocket hole distance; for detailed specifications refer to "Packaging Information" www.vishay.com/doc?28139
- (2) Reel diameter = 356 mm is available on request
- (3) Weight for short lead product only
- SPQ = Standard Packing Quantity

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Pitch: 22.5 mm; C-tol. = ± 10 %

C (μ F)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 339T XXXXX AND PACKAGING						
			LOOSE IN BOX					REEL (500 mm) ⁽¹⁾⁽²⁾	
			Short leads			Long leads		H = 18.5 mm P ₀ = 12.7 mm	
			$l_t =$ 3.5 ± 0.3 mm	$l_t =$ 5.0 ± 1.0 mm	SPQ	$l_t =$ 25.0 ± 2.0 mm	SPQ		SPQ
Pitch = 22.5 ± 0.4 mm; d _t = 0.80 ± 0.08 mm									
Pitch = 22.5 ± 0.4 mm; d _t = 0.80 ± 0.08 mm									
0.12	6.0 x 15.5 x 26.0	2.4	11124	13124		15124		17124	
0.15			11154	13154	300	15154	250	17154	600
0.18			11184	13184		15184		17184	
0.22	7.0 x 16.5 x 26.0	2.9	11224	13224	200	15224	250	17224	500
0.27			11274	13274		15274		17274	
0.33	8.5 x 18.0 x 26.0	3.8	11334	13334	200	15334	250	17334	450
0.39			11394	13394		15394		17394	
0.47	10.0 x 19.5 x 26.0	6.8	10474	12474	200	14474	200	16474	350
0.56			10564	12564		14564		16564	
0.68	12.0 x 22.0 x 26.0	7.8	10684	12684	150	14684	200	16684	300

Notes

(1) H = In-tape height; P₀ = Sprocket hole distance; for detailed specifications refer to "Packaging Information" www.vishay.com/doc?28139

(2) Reel diameter = 356 mm is available on request

(3) Weight for short lead product only

• SPQ = Standard Packing Quantity

Pitch: 22.5 mm; C-tol. = ± 5 %

C (μ F)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 339T XXXXX AND PACKAGING						
			LOOSE IN BOX					REEL (500 mm) ⁽¹⁾⁽²⁾	
			Short leads			Long leads		H = 18.5 mm P ₀ = 12.7 mm	
			$l_t =$ 3.5 ± 0.3 mm	$l_t =$ 5.0 ± 1.0 mm	SPQ	$l_t =$ 25.0 ± 2.0 mm	SPQ		SPQ
Pitch = 22.5 ± 0.4 mm; d _t = 0.80 ± 0.08 mm									
0.12	6.0 x 15.5 x 26.0	2.4	51124	53124		55124		46124	
0.15			51154	53154	300	55154	250	46154	600
0.18			51184	53184		55184		46184	
0.22	7.0 x 16.5 x 26.0	2.9	51224	53224	200	55224	250	46224	500
0.27			51274	53274		55274		46274	
0.33	8.5 x 18.0 x 26.0	3.8	51334	53334	200	55334	250	46334	450
0.39			51394	53394		55394		46394	
0.47	10.0 x 19.5 x 26.0	6.8	50474	52474	200	54474	200	36474	350
0.56			50564	52564		54564		36564	
0.68	12.0 x 22.0 x 26.0	7.8	50684	52684	150	54684	200	36684	300

Notes

(1) H = In-tape height; P₀ = Sprocket hole distance; for detailed specifications refer to "Packaging Information" www.vishay.com/doc?28139

(2) Reel diameter = 356 mm is available on request

(3) Weight for short lead product only

• SPQ = Standard Packing Quantity



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Pitch: 27.5 mm; C-tol. = ± 20 %

C (µF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽¹⁾	CATALOG NUMBER BFC2 339T XXXXX AND PACKAGING				
			LOOSE IN BOX				
			Short leads			Long leads	
			$l_t =$ 3.5 ± 0.3 mm	$l_t =$ 5.0 ± 1.0 mm	SPQ	$l_t =$ 25.0 ± 2.0 mm	SPQ
Pitch = 27.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm							
0.47	9.0 x 19.0 x 31.0	5.5	21474	23474	100	25474	150
0.68	11.0 x 21.0 x 31.0	7.4	21684	23684	100	25684	125
1.0	13.0 x 23.0 x 31.0	9.2	21105	23105	100	25105	125
1.5	15.0 x 25.0 x 31.0	12.3	20155	22155	100	24155	125
2.2	21.0 x 31.0 x 31.0	20.3	20225	22225	50	24225	75

Notes

- ⁽¹⁾ Weight for short lead product only
- SPQ = Standard Packing Quantity

Pitch: 27.5 mm; C-tol. = ± 10 %

C (µF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽¹⁾	CATALOG NUMBER BFC2 339T XXXXX AND PACKAGING				
			LOOSE IN BOX				
			Short leads			Long leads	
			$l_t =$ 3.5 ± 0.3 mm	$l_t =$ 5.0 ± 1.0 mm	SPQ	$l_t =$ 25.0 ± 2.0 mm	SPQ
Pitch = 27.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm							
0.39	9.0 x 19.0 x 31.0	5.5	11394	13394	100	15394	150
0.47			11474	13474		15474	
0.56	11.0 x 21.0 x 31.0	7.4	11564	13564	100	15564	125
0.68			11684	13684		15684	
0.82	13.0 x 23.0 x 31.0	9.2	11824	13824	100	15824	125
1.0			11105	13105		15105	
1.2	15.0 x 25.0 x 31.0	12.3	10125	12125	100	14125	125
1.5	18.0 x 28.0 x 31.0	16.1	10155	12155	100	14155	100
1.8			10185	12185		14185	
2.2	21.0 x 31.0 x 31.0	20.3	10225	12225	50	14225	75

Notes

- ⁽¹⁾ Weight for short lead product only
- SPQ = Standard Packing Quantity

Pitch: 27.5 mm; C-tol. = ± 5 %

C (µF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽¹⁾	CATALOG NUMBER BFC2 339T XXXXX AND PACKAGING				
			LOOSE IN BOX				
			Short leads			Long leads	
			$l_t =$ 3.5 ± 0.3 mm	$l_t =$ 5.0 ± 1.0 mm	SPQ	$l_t =$ 25.0 ± 2.0 mm	SPQ
Pitch = 27.5 ± 0.4 mm; d_t = 0.80 ± 0.08 mm							
0.39	9.0 x 19.0 x 31.0	5.5	51394	53394	100	55394	150
0.47			51474	53474		55474	
0.56	11.0 x 21.0 x 31.0	7.4	51564	53564	100	55564	125
0.68			51684	53684		55684	
0.82	13.0 x 23.0 x 31.0	9.2	51824	53824	100	55824	125
1.0	15.0 x 25.0 x 31.0	12.3	51105	53105	100	55105	125
1.2			50125	52125		54125	
1.5	18.0 x 28.0 x 31.0	16.1	50155	52155	100	54155	100
1.8			50185	52185		54185	
2.2	21.0 x 31.0 x 31.0	20.3	50225	52225	50	54225	75





Notes

- ⁽¹⁾ Weight for short lead product only
- SPQ = Standard Packing Quantity

APPROVALS: Approvals will be available by 31 Dec 2008

SAFETY APPROVALS X2	VOLTAGE	VALUE	FILE NUMBERS
EN 60384-14 (ENEC) (= IEC 60384-14 ed-3)	310 Vac	1 nF to 2.2 μF	FI 2008071
UL1414 and CSA-C22.2 No. 1	250 Vac	1 nF to 1 μF	pending
UL1283	305 Vac	1 nF to 2.2 μF	pending
CSA-E384-14	310 Vac	1 nF to 2.2 μF	pending
CQC	310 Vac	1 nF to 2.2 μF	pending
CB - Test Certificate	310 Vac	1 nF to 2.2 μF	FI 5367

The ENEC-approval together with the CB-Certificate replace all national marks of the following countries (they have already signed the ENEC-Agreement): Austria; Belgium; Czech.Republic; Denmark; Finland; France; Germany; Greece; Hungary; Ireland; Italy; Luxembourg; Netherlands; Norway; Portugal; Slovenian; Spain; Sweden; Switzerland and United Kingdom.

MOUNTING

Normal Use

The capacitors are designed for mounting on printed-circuit boards. The capacitors packed in bandoliers are designed for mounting in printed-circuit boards by means of automatic insertion machines.

For detailed tape specifications refer to packaging information www.vishay.com/doc?28139 or end of catalog

Specific Method of Mounting to Withstand Vibration and Shock

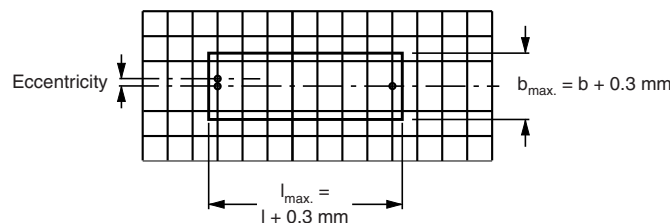
In order to withstand vibration and shock tests, it must be insured that the stand-off pips are in good contact with the printed-circuit board:

- For pitches ≤ 15 mm capacitors shall be mechanically fixed by the leads
- For larger pitches the capacitors shall be mounted in the same way and the body clamped

Space Requirements on Printed-Circuit Board

The maximum length and width of film capacitors is shown in the drawing:

- Eccentricity as in drawing. The maximum eccentricity is smaller than or equal to the lead diameter of the product concerned
- Product height with seating plane as given by "IEC 60717" as reference: $h_{max.} \leq h + 0.3$ mm or $h_{max.} \leq h' + 0.3$ mm



Storage Temperature

- Storage temperature: $T_{stg} = -25$ °C to $+40$ °C with RH maximum 80 % without condensation

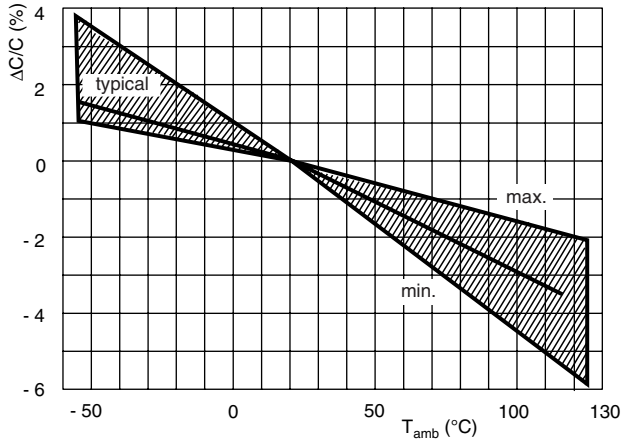
Ratings and Characteristics Reference Conditions

Unless otherwise specified, all electrical values apply to an ambient temperature of 23 ± 1 °C, an atmospheric pressure of 86 kPa to 106 kPa and a relative humidity of 50 ± 2 %.

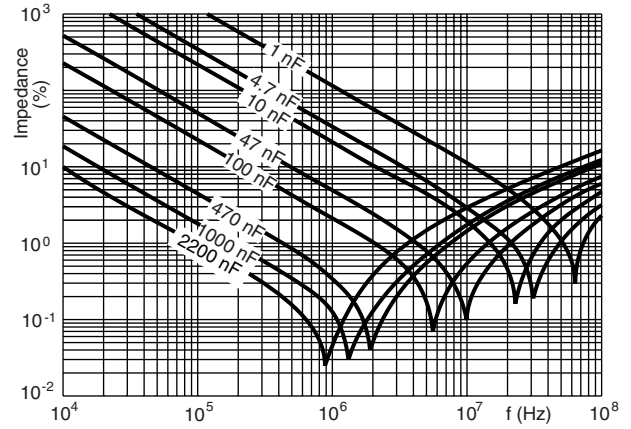
For reference testing, a conditioning period shall be applied over 96 ± 4 h by heating the products in a circulating air oven at the rated temperature and a relative humidity not exceeding 20 %.

CHARACTERISTICS

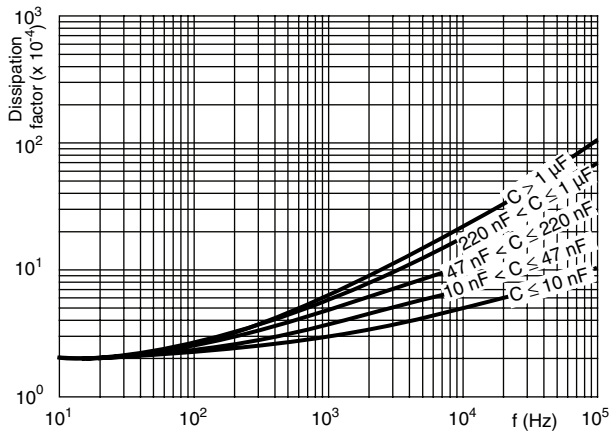
Capacitance as a function of ambient temperature (typical curve)



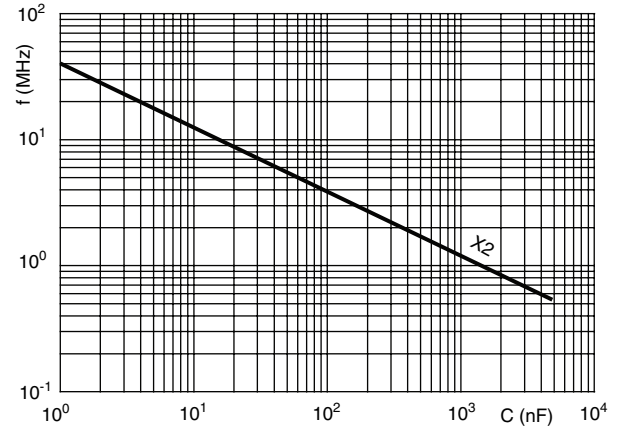
Impedance as a function of frequency (typical curve)



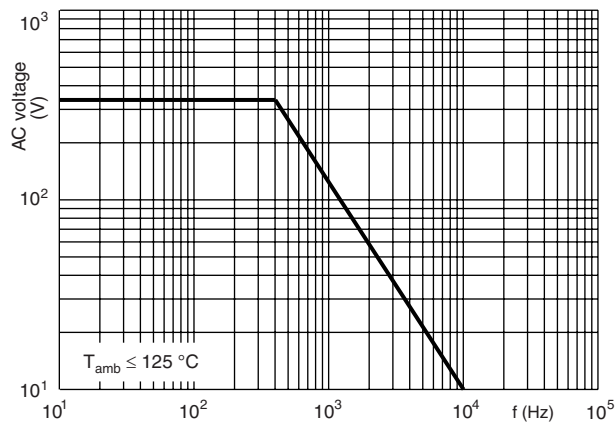
Tangent of loss angle as a function of frequency (typical curve)



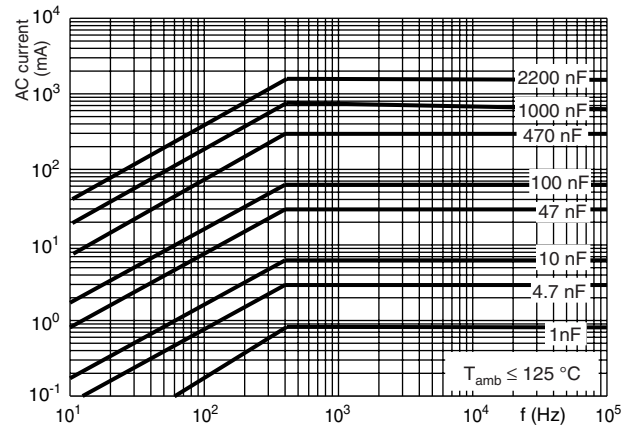
Resonant frequency as a function of capacitance (typical curve)



Max. RMS voltage as a function of frequency (typical curve)

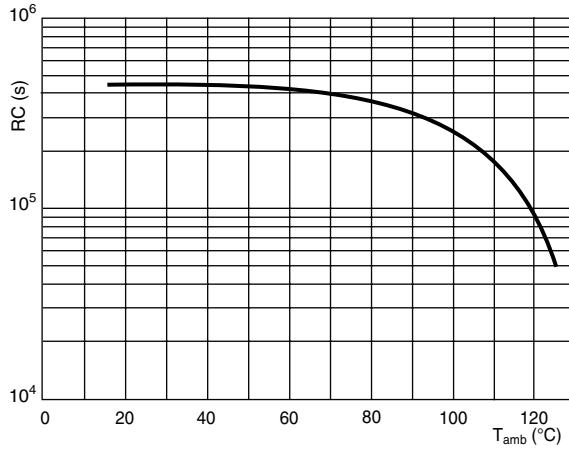


Max. RMS current as a function of frequency (typical curve)

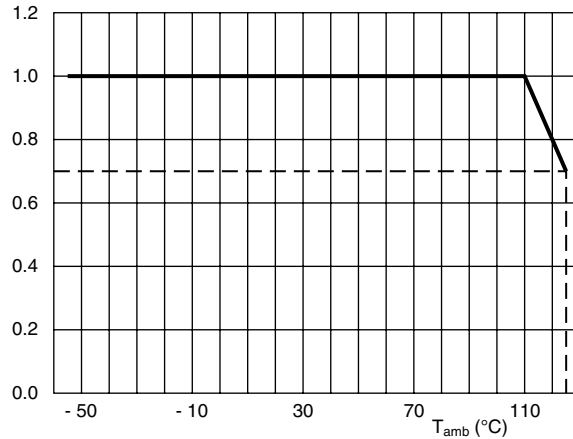




Insulation resistance as a function of ambient temperature
(typical curve)



Max. permissible DC voltage as a function of temperature factor



APPLICATION NOTES

- For X2 electromagnetic interference suppression in **standard across the line applications** (50/60 Hz) with a maximum mains voltage of 310 Vac.
- For series impedance applications we refer to application note www.vishay.com/doc?28153
- These capacitors are not intended for continuous pulse application. For these situations capacitors of the AC and pulse programs must be used.
- The maximum ambient temperature must not exceed 125 °C.
- Rated voltage pulse slope:
If the pulse voltage is lower than the rated voltage, the values of the specific reference data can be multiplied by 435 Vdc and divided by the applied voltage.

INSPECTION REQUIREMENTS

General Notes

1. Sub-clause numbers of tests and performance requirements refer to the “Sectional Specification, IEC Publication IEC 60384-14 ed-3 and Specific Reference Data.

Group C Inspection Requirements

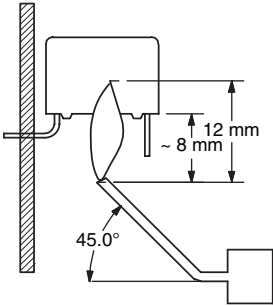
SUB-CLAUSE NUMBER AND TEST	CONDITIONS	PERFORMANCE REQUIREMENTS
SUB-GROUP C1A PART OF SAMPLE OF SUB-GROUP C1		
4.1 Dimensions (detail) Initial measurements	Capacitance Tangent of loss angle: For C ≤ 1 μF at 10 kHz or for C > 1 μF at 1 kHz	As specified in chapters “General data” of this specification
4.3 Robustness of terminations	Tensile: Load 10 N; 10 s Bending: Load 5 N; 4 x 90°	No visible damage
4.4 Resistance to soldering heat	No pre-drying Method: 1A Solder bath: 280 °C ± 5 °C Duration: 10 s	



SUB-CLAUSE NUMBER AND TEST	CONDITIONS	PERFORMANCE REQUIREMENTS
4.9.2 Final measurements	Visual examination Capacitance Tangent of loss angle Insulation resistance	No visible damage $ \Delta C/C \leq 5\%$ of the value measured initially. Increase of $\tan \delta$: ≤ 0.008 for: $C \leq 1 \mu\text{F}$ or ≤ 0.005 for: $C > 1 \mu\text{F}$ Compared to values measured initially As specified in section "Insulation Resistance" of this specification
SUB-GROUP C1 COMBINED SAMPLE OF SPECIMENS OF SUB-GROUPS C1A AND C1B		
4.11 Climatic sequence 4.11.1 Initial measurements 4.11.2 Dry heat 4.11.3 Damp heat cyclic Test Db First cycle 4.11.4 Cold 4.11.5 Damp heat cyclic Test Db Remaining cycles 4.11.6 Final measurements	Capacitance Measured in 4.4.2 and 4.9.2 Tangent of loss angle: Measured initially in C1A and C1B Temperature: 125 °C Duration: 16 h Temperature: - 55 °C Duration: 2 h Visual examination Capacitance Tangent of loss angle Voltage proof 1350 Vdc; 1 min between terminations Insulation resistance	No visible damage Legible marking $ \Delta C/C \leq 5\%$ of the value measured in 4.11.1. Increase of $\tan \delta$: ≤ 0.008 for: $C \leq 1 \mu\text{F}$ or ≤ 0.005 for: $C > 1 \mu\text{F}$ Compared to values measured in 4.11.1. No permanent breakdown or flash-over $\geq 50\%$ of values specified in section "Insulation Resistance" of this specification
SUB-GROUP C2		
4.12 Damp heat steady state 4.12.1 Initial measurements	56 days; 40 °C; 90 to 95 % RH no load Capacitance Tangent of loss angle: at 1 kHz	

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MKP Radial Potted Type

SUB-CLAUSE NUMBER AND TEST	CONDITIONS	PERFORMANCE REQUIREMENTS
4.12.3 Final measurements	Visual examination Capacitance Tangent of loss angle Voltage proof 1350 Vdc; 1 min between terminations Insulation resistance	No visible damage Legible marking $ \Delta C/C \leq 5\%$ of the value measured in 4.12.1. Increase of tan δ : ≤ 0.008 for: $C \leq 1 \mu\text{F}$ or ≤ 0.005 for: $C > 1 \mu\text{F}$ Compared to values measured in 4.12.1. No permanent breakdown or flash-over $\geq 50\%$ of values specified in section "Insulation Resistance" of this specification
SUB-GROUP C3		
4.13.1 Initial measurements 4.13 Impulse voltage 4.14 Endurance 4.14.7 Final measurements	Capacitance Tangent of loss angle: For $C \leq 1 \mu\text{F}$ at 10 kHz or for $C > 1 \mu\text{F}$ at 1 kHz 3 successive impulses, full wave, peak voltage: X2: 2.5 kV for $C \leq 1 \mu\text{F}$ X2: 2.5 kV/ \sqrt{C} for $C > 1 \mu\text{F}$ Max. 24 pulses Duration: 1000 h 1.25 x U_{Rac} at 125 °C Once in every hour the voltage is increased to 1000 V_{RMS} for 0.1 s via resistor of $47 \Omega \pm 5\%$ Visual examination Capacitance Tangent of loss angle Voltage proof 1350 Vdc; 1 min between terminations 2120 Vac; 1 min between terminations and case Insulation resistance	No self healing breakdowns or flash-over No visible damage Legible marking $ \Delta C/C \leq 10\%$ compared to values measured in 4.13.1. Increase of tan δ : ≤ 0.008 for: $C \leq 1 \mu\text{F}$ or ≤ 0.005 for: $C > 1 \mu\text{F}$ Compared to values measured in 4.13.1. No permanent breakdown or flash-over $\geq 50\%$ of values specified in section "Insulation Resistance" of this specification

SUB-CLAUSE NUMBER AND TEST	CONDITIONS	PERFORMANCE REQUIREMENTS
SUB-GROUP C4		
4.15 Charge and discharge	10 000 cycles Charged to 435 Vdc Discharge resistance: $R = \frac{435 \text{ Vdc}}{1.25 \times C (dU/dt)}$	
4.15.1 Initial measurements	Capacitance Tangent of loss angle: For $C \leq 1 \mu\text{F}$ at 10 kHz or for $C > 1 \mu\text{F}$ at 1 kHz	
4.15.3 Final measurements	Capacitance Tangent of loss angle Insulation resistance	$ \Delta C/C \leq 10\%$ compared to values measured in 4.15.1. Increase of $\tan \delta$: ≤ 0.008 for: $C \leq 1 \mu\text{F}$ or ≤ 0.005 for: $C > 1 \mu\text{F}$ Compared to values measured in 4.15.1. $\geq 50\%$ of values specified in section "Insulation Resistance" of this specification
SUB-GROUP C5		
4.16 Radio frequency characteristic	Resonance frequency	≥ 0.9 times the value as specified in section "Resonant Frequency" of this specification
SUB-GROUP C6		
4.17 Passive flammability Class B	Bore of gas jet: $\varnothing 0.5 \text{ mm}$ Fuel: Butane Test duration for actual volume V in mm^3 : $V \leq 250$: 10 s $250 < V \leq 500$: 20 s $500 < V \leq 1750$: 30 s $V > 1750$: 60 s One flame application 	After removing test flame from capacitor, the capacitor must not continue to burn for more than 10 s. No burning particle must drop from the sample.
SUB-GROUP C7		
4.18 Active flammability	20 cycles of 2.5 kV discharges on the test capacitor connected to U_{RAC}	The cheese cloth around the capacitors shall not burn with a flame. No electrical measurements are required.



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