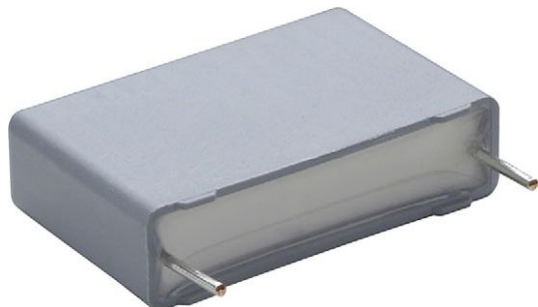




## Interference Suppression Film Capacitors MKP Radial Potted Type



### FEATURES

- 15 mm to 27.5 mm lead pitch.  
Supplied in box, taped on ammpack or reel
- Material categorization:  
for definitions of compliance please see  
[www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


**RoHS**  
COMPLIANT

### APPLICATIONS

X1 class

For X1 electromagnetic interference suppression in across the line applications (50 Hz / 60 Hz) with a maximum mains voltage of 275 V<sub>AC</sub>.

For application limitations please refer to section "Application Notes".

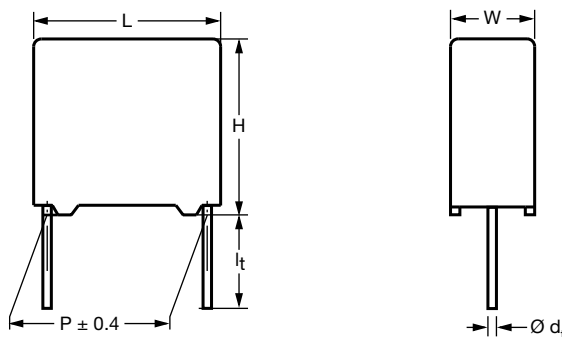
### QUICK REFERENCE DATA

Capacitance range (E12 series)	0.01 $\mu$ F to 1 $\mu$ F (preferred values according to E6)
Capacitance tolerance	$\pm 20\%$ ; $\pm 10\%$ ; $\pm 5\%$
Rated AC voltage	275 V <sub>AC</sub> ; 50 Hz to 60 Hz
Permissible DC voltage	630 V <sub>DC</sub>
Climatic testing class (according to EN 60068-1)	55/105/56/B
Maximum application temperature	105 °C
Rated temperature	105 °C
Leads	Tinned wire
Reference standards	IEC 60384-14 ed-4 (2013) and EN 132400 IEC 60065, pass. flamm. class B UL 60384-14 CSA E384-14
Dielectric	Polypropylene film
Electrodes	Metallized film
Construction	Mono construction
Encapsulation	Plastic case, epoxy resin sealed, flame retardant UL-class 94 V-0
Marking	C-value; tolerance; rated voltage; sub-class; manufacturer's type; code for dielectric material; manufacturer location, year and week; manufacturer's logo or name; safety approvals

### Note

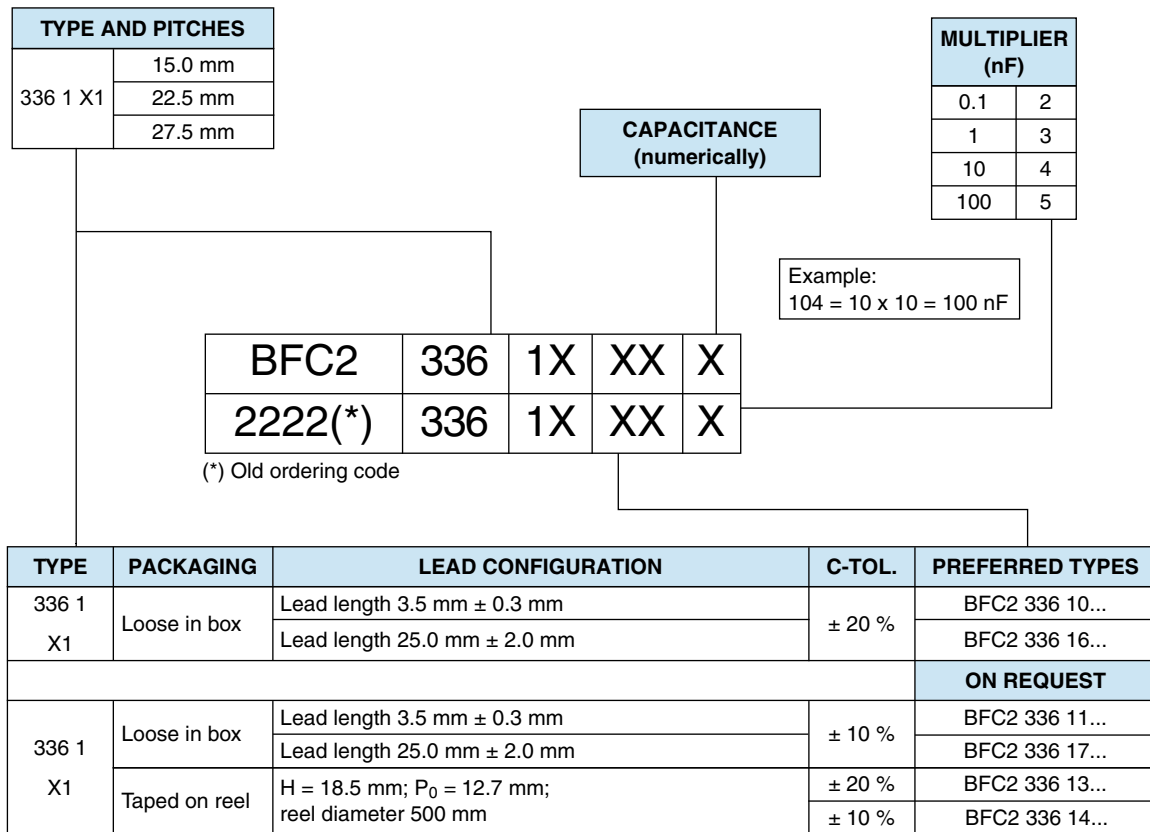
- For more detailed data and test requirements, contact [rfi@vishay.com](mailto:rfi@vishay.com)

### DIMENSIONS in millimeters





## COMPOSITION OF CATALOG NUMBER



## Note

(1) For detailed tape specifications refer to packaging information: [www.vishay.com/doc?28139](http://www.vishay.com/doc?28139)

SPECIFIC REFERENCE DATA	
DESCRIPTION	VALUE
Tangent of loss angle:	at 10 kHz
C ≤ 100 nF	≤ 10 x 10 <sup>-4</sup>
100 nF < C ≤ 470 nF	≤ 20 x 10 <sup>-4</sup>
C > 470 nF	≤ 70 x 10 <sup>-4</sup>
Rated voltage pulse slope (dU/dt) <sub>R</sub> at 385 V <sub>DC</sub> :	
P = 15 mm	250 V/μs
P = 22.5 mm	150 V/μs
P = 27.5 mm	100 V/μs
R between leads, for C ≤ 0.33 μF at 100 V; 1 min	> 15 000 MΩ
RC between leads, for C > 0.33 μF at 100 V; 1 min	> 5000 s
R between leads and case; 100 V; 1 min	> 30 000 MΩ
Withstanding (DC) voltage (cut off current 10 mA) <sup>(1)</sup> ; rise time ≤ 1000 V/s	3400 V; 1 min
Withstanding (AC) voltage between leads and case	2050 V; 1 min

## Note

(1) See "Voltage Proof Test for Metalized Film Capacitors": [www.vishay.com/doc?28169](http://www.vishay.com/doc?28169)



## ELECTRICAL DATA AND ORDERING INFORMATION

U <sub>RAC</sub> (V)	CAP. (μF)	DIMENSIONS W x H x L (mm)	MASS (g) <sup>(1)</sup>	CATALOG NUMBER BFC2 336 1 ..... AND PACKAGING					
				LOOSE IN BOX				REEL 500 mm <sup>(1)(2)</sup>	
				l <sub>t</sub> = 3.5 mm ± 0.3 mm		l <sub>t</sub> = 25.0 mm ± 2.0 mm		H = 18.5 mm; P <sub>0</sub> = 12.7 mm	
				LAST 5 DIGITS OF CATALOG NUMBER	SPQ	LAST 5 DIGITS OF CATALOG NUMBER	SPQ	LAST 5 DIGITS OF CATALOG NUMBER	SPQ
275	PITCH = 15.0 mm ± 0.4 mm; d <sub>t</sub> = 0.6 mm ± 0.06 mm; U <sub>RAC</sub> = 275 V; C-TOL. = ± 20 %								
	0.010	5.0 x 11.0 x 17.5	1	19001	1000	19007	1000	19002	1100
	0.015			10153		16153		13153	
	0.022			10223		16223		13223	
	0.033	6.0 x 12.0 x 17.5	1.4	10333		16333		13333	900
	PITCH = 15.0 mm ± 0.4 mm; d <sub>t</sub> = 0.8 mm ± 0.08 mm; U <sub>RAC</sub> = 275 V; C-TOL. = ± 20 %								
	0.047	7.0 x 13.5 x 17.5	1.8	10473	1000	16473	500	13473	800
	0.068	8.5 x 15.0 x 17.5	2.4	10683		16683		13683	650
	0.100	10.0 x 16.5 x 17.5	3	10104	500	16104		13104	600
	PITCH = 22.5 mm ± 0.4 mm; d <sub>t</sub> = 0.8 mm ± 0.08 mm; U <sub>RAC</sub> = 275 V; C-TOL. = ± 20 %								
	0.10	7.0 x 16.5 x 26.0	2.9	19003	200	19008	500	19004	550
	0.15	8.5 x 18.0 x 26.0	3.8	10154		16154		13154	450
	0.22	10.0 x 19.5 x 26.0	6.8	10224		16224		13224	400
	PITCH = 27.5 mm ± 0.4 mm; d <sub>t</sub> = 0.8 mm ± 0.08 mm; U <sub>RAC</sub> = 275 V; C-TOL. = ± 20 %								
	0.22	11.0 x 21.0 x 31.0	7.4	19005	100	19009	125		
	0.33	13.0 x 23.0 x 31.0	9.2	10334		16334			
	0.47	15.0 x 25.0 x 31.0	12.3	10474		16474			
	0.68	18.0 x 28.0 x 31.0	16.1	10684		16684			
	1.00	21.0 x 31.0 x 31.0	20.3	10105	50	16105	75		
	PITCH = 15.0 mm ± 0.4 mm; d <sub>t</sub> = 0.6 mm ± 0.06 mm; U <sub>RAC</sub> = 275 V; C-TOL. = ± 10 %								
	0.010	5.0 x 11.0 x 17.5	1	11103	1000	17103	1000	14103	1100
	0.012			11123		17123		14123	
	0.015			11153		17153		14153	
	0.018	6.0 x 12.0 x 17.5	1.4	11183		17183		14183	900
	0.022			11223		17223		14223	
	0.027			11273		17273		14273	
	PITCH = 15.0 mm ± 0.4 mm; d <sub>t</sub> = 0.8 mm ± 0.08 mm; U <sub>RAC</sub> = 275 V; C-TOL. = ± 10 %								
	0.033	7.0 x 13.5 x 17.5	1.8	11333	1000	17333	500	14333	800
	0.039			11393		17393		14393	
	0.047	8.5 x 15.0 x 17.5	2.4	11473		17473		14473	650
	0.056			11563	17563	14563			
	0.068	10.0 x 16.5 x 17.5	3	11683	500	17683		14683	600
	0.082			11823		17823		14823	
	PITCH = 22.5 mm ± 0.4 mm; d <sub>t</sub> = 0.8 mm ± 0.08 mm; U <sub>RAC</sub> = 275 V; C-TOL. = ± 10 %								
	0.10	7.0 x 16.5 x 26.0	2.9	11104	200	17104	500	14104	550
	0.12	8.5 x 18.0 x 26.0	3.8	11124		17124	250	14124	450
	0.15			11154		17154		14154	
	0.18	10.0 x 19.5 x 26.0	6.8	11184		17184	500	14184	400
	PITCH = 27.5 mm ± 0.4 mm; d <sub>t</sub> = 0.8 mm ± 0.08 mm; U <sub>RAC</sub> = 275 V; C-TOL. = ± 10 %								
	0.22	11.0 x 21.0 x 31.0	7.4	11224	100	17224	125		
	0.27			11274		17274			
	0.33	13.0 x 23.0 x 31.0	9.2	11334		17334			
	0.39	15.0 x 25.0 x 31.0	12.3	11394		17394			
	0.47			11474		17474			
	0.56			11564		17564			
	0.68	18.0 x 28.0 x 31.0	16.1	11684		17684			
	0.82	21.0 x 31.0 x 31.0	20.3	11824	50	17824	75		

## Notes



- SPQ = Standard Packing Quantity

<sup>(1)</sup> Reel diameter = 356 mm is available on request

<sup>(2)</sup> H = In tape height; P<sub>0</sub> = Sprocket hole distance; for detailed specifications refer to Packaging Information.

<sup>(3)</sup> Weight for short lead product only



APPROVALS				
SAFETY APPROVALS X1	VOLTAGE	VALUE	FILE NUMBERS	LINKS
EN 60384-14 (ENEC) (= IEC 60384-14 ed-4 (2013))	275 V <sub>AC</sub>	10 nF to 1 µF	ENEC16/FI/19/10002	<a href="http://www.vishay.com/doc?28197">www.vishay.com/doc?28197</a>
UL 60384-14	275 V <sub>AC</sub>	10 nF to 1 µF	E354331	<a href="http://www.vishay.com/doc?28188">www.vishay.com/doc?28188</a>
CSA E384-14	275 V <sub>AC</sub>	10 nF to 1 µF	E354331	
CB-Test-Certificate	275 V <sub>AC</sub>	10 nF to 1 µF	FI-39828	<a href="http://www.vishay.com/doc?28198">www.vishay.com/doc?28198</a>
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; Switzerland and United Kingdom.				
 				

## MOUNTING

### Normal Use

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

For detailed tape specifications refer to "Packaging information".

### Specific Method of Mounting to Withstand Vibration and Shock

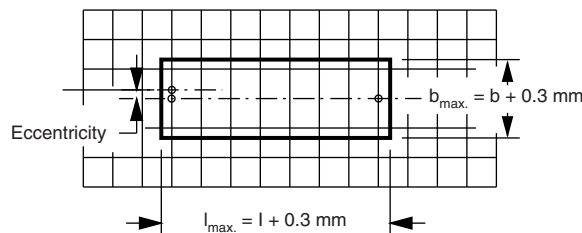
In order to withstand vibration and shock tests, it must be ensured that the stand-off pips are in good contact with the printed-circuit board:

- For pitches  $\leq 15$  mm capacitors shall be mechanically fixed by the leads
- For longer 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 Figure:

- Eccentricity as in figure. 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



CBA116

## SOLDERING CONDITIONS

For general soldering conditions and wave soldering profile, we refer to the application note:

"Soldering Guidelines for Film Capacitors": [www.vishay.com/doc?28171](http://www.vishay.com/doc?28171)

### Storage Temperature

$T_{\text{stg}} = -25$  °C to  $+35$  °C with RH maximum 75 % without condensation

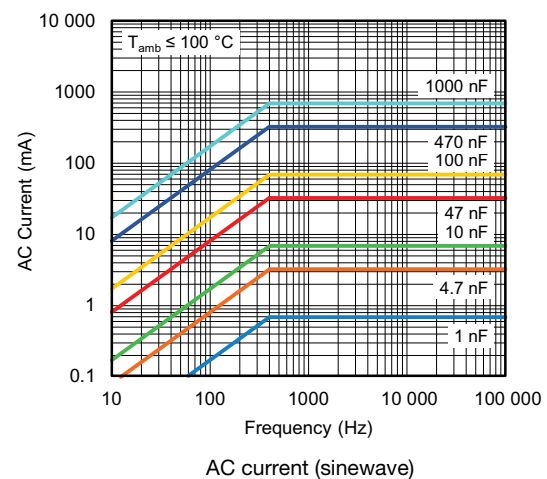
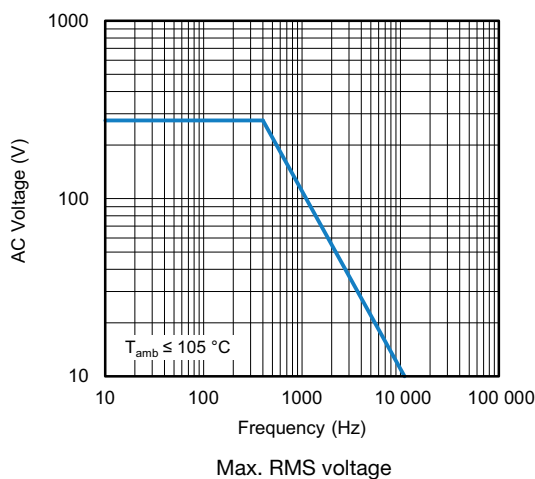
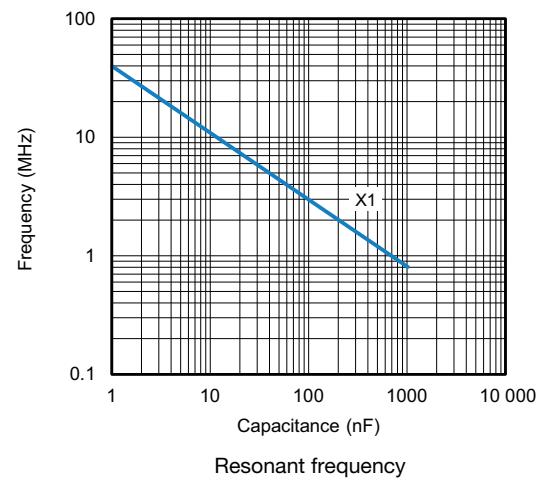
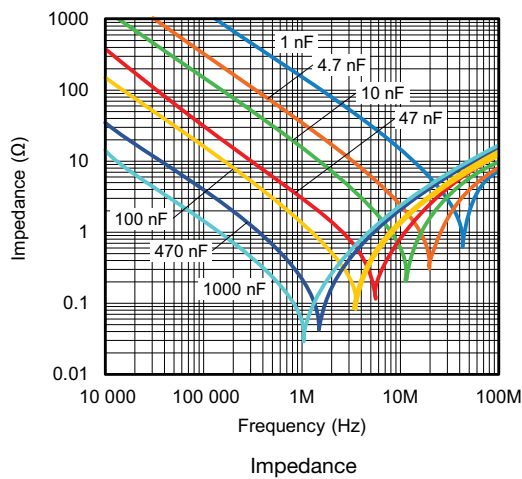
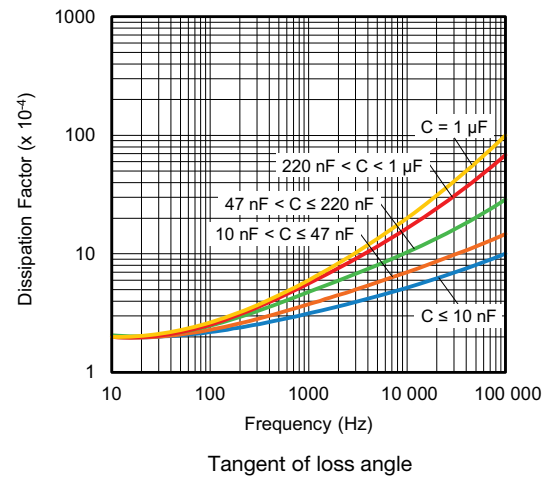
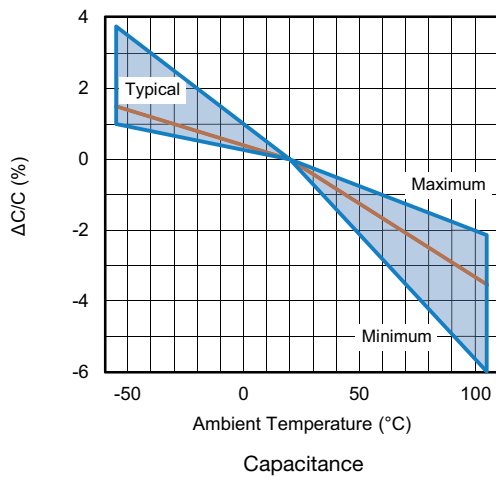
### Ratings and Characteristics Reference Conditions

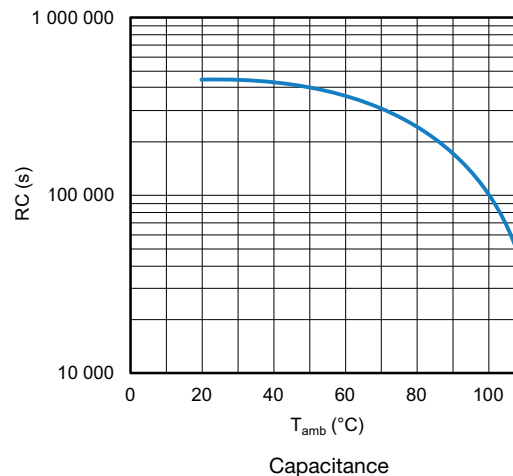
Unless otherwise specified, all electrical values apply to an ambient temperature of  $23$  °C  $\pm 1$  °C, an atmospheric pressure of 86 kPa to 106 kPa and a relative humidity of  $50$  %  $\pm 2$  %.

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



## CHARACTERISTICS



**APPLICATION NOTES**

- For X2 electromagnetic interference suppression in standard across the line applications (50 Hz / 60 Hz) with a maximum mains voltage of 310 V<sub>AC</sub>
- For series impedance applications we refer to application note [www.vishay.com/doc?28153](http://www.vishay.com/doc?28153)
- For capacitors connected in parallel, normally the proof voltage and possibly the rated voltage must be reduced. For information depending of the capacitance value and the number of parallel connections contact: [dc-film@vishay.com](mailto:dc-film@vishay.com)
- 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 110 °C. (125 °C for less than 1000 h) for C ≤ 470 nF and 110 °C for C > 470 nF
- 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 V<sub>DC</sub> and divided by the applied voltage

**INSPECTION REQUIREMENTS****General Notes**

Sub-clause numbers of tests and performance requirements refer to the "Sectional Specification, Publication IEC 60384-14 ed-4 (2013) and Specific Reference Data."

<b>GROUP C INSPECTION REQUIREMENTS</b>			
<b>SUB-CLAUSE NUMBER AND TEST</b>	<b>D OR ND</b>	<b>CONDITIONS</b>	<b>PERFORMANCE REQUIREMENTS</b>
<b>SUB-GROUP C1A PART OF SAMPLE OF SUB-GROUP C1</b>	<b>D</b>		
4.1 Dimensions (detail)  Initial measurements		Capacitance Tangent of loss angle: For C ≤ 470 nF at 100 kHz For C > 470 nF at 10 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



<b>GROUP C INSPECTION REQUIREMENTS</b>			
<b>SUB-CLAUSE NUMBER AND TEST</b>	<b>D OR ND</b>	<b>CONDITIONS</b>	<b>PERFORMANCE REQUIREMENTS</b>
<b>SUB-GROUP C1A PART OF SAMPLE OF SUB-GROUP C1</b>	<b>D</b>		
4.4 Resistance to soldering heat		No pre-drying Method: 1A Solder bath: 260 °C Duration: 10 s	
4.19 Component solvent resistance		Isopropylalcohol at room temperature Method: 2 Immersion time: 5 min ± 0.5 min Recovery time: Min. 1 h, max. 2 h	
4.4.2 Final measurements		Visual examination	No visible damage Legible marking
		Capacitance	$ \Delta C/C  \leq 5\%$ of the value measured initially
		Tangent of loss angle	Increase of $\tan \delta$ : $\leq 0.008$ Compared to values measured initially
		Insulation resistance	As specified in section "Insulation Resistance" of this specification
<b>SUB-GROUP C1B PART OF SAMPLE OF SUB-GROUP C1</b>	<b>D</b>		
Initial measurements		Capacitance Tangent of loss angle: For $C \leq 470$ nF at 100 kHz For $C > 470$ nF at 10 kHz	No visible damage Legible marking
4.20 Solvent resistance of the marking: see section "General Notes"; item 5		Isopropylalcohol at room temperature Method: 1 Rubbing material: cotton wool Immersion time: 5 min ± 0.5 min	No visible damage
4.6 Rapid change of temperature		$\theta A = -55$ °C $\theta B = +105$ °C 5 cycles	
<b>SUB-GROUP C1B PART OF SAMPLE OF SUB-GROUP C1</b>	<b>D</b>		
4.6.1 Inspection		Duration $t = 30$ min	
4.7 Vibration (see note 3.1)		Visual examination Mounting: see section "Mounting" of this specification Procedure B4: Frequency range: 10 Hz to 55 Hz Amplitude: 0.75 mm or Acceleration 98 m/s <sup>2</sup> (whichever is less severe) Total duration 6 h	No visible damage
4.7.2 Final inspection		Visual examination	No visible damage



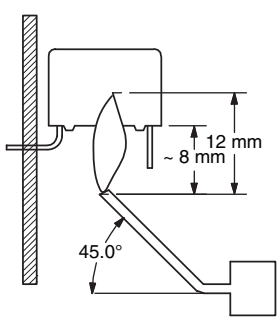
<b>GROUP C INSPECTION REQUIREMENTS</b>			
<b>SUB-CLAUSE NUMBER AND TEST</b>	<b>D OR ND</b>	<b>CONDITIONS</b>	<b>PERFORMANCE REQUIREMENTS</b>
<b>SUB-GROUP C1B PART OF SAMPLE OF SUB-GROUP C1</b>	<b>D</b>		
4.9 Shock (see note 3)		Mounting: See section "Mounting" for more information Pulse shape: Half sine Acceleration: 490 m/s <sup>2</sup> Duration of pulse: 11 ms	
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 $\tan \delta: \leq 0.008$ Compared to values measured initially  As specified in section "Insulation Resistance" of this specification
<b>SUB-GROUP C1 COMBINED SAMPLE OF SPECIMENS OF SUB-GROUPS C1A AND C1B</b>	<b>D</b>		
4.11 Climatic sequence			
4.11.1 Initial measurements		Capacitance Measured in 4.4.2 and 4.9.2 Tangent of loss angle: Measured initially in C1A and C1B	
4.11.2 Dry heat		Temperature: 105 °C Duration: 16 h	
4.11.3 Damp heat cyclic Test Db First cycle			
4.11.4 Cold		Temperature: - 55 °C Duration: 2 h	
4.11.5 Damp heat cyclic Test Db remaining cycles			
<b>SUB-GROUP C1 COMBINED SAMPLE OF SPECIMENS OF SUB-GROUPS C1A AND C1B</b>	<b>D</b>		
4.11.6 Final measurements		Visual examination  Capacitance  Tangent of loss angle  Voltage proof 1200 V <sub>DC</sub> ; 1 min between term  Insulation resistance	No visible damage Legible marking  $ \Delta C/C  \leq 5\%$ of the value measured in 4.11.1.  Increase of $\tan \delta: \leq 0.008$ 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





<b>GROUP C INSPECTION REQUIREMENTS</b>			
<b>SUB-CLAUSE NUMBER AND TEST</b>	<b>D OR ND</b>	<b>CONDITIONS</b>	<b>PERFORMANCE REQUIREMENTS</b>
<b>SUB-GROUP C2</b>	<b>D</b>		
4.12 Damp heat steady state		56 days, 40 °C, 90 % to 95 % RH, no load capacitance	
4.12.1 Initial measurements		Tangent of loss angle at 10 kHz	
4.12.3 Final measurements		Visual examination	No visible damage Legible marking
		Capacitance	$ \Delta C/C  \leq 5\%$ of the value measured in 4.12.1.
		Tangent of loss angle	Increase of $\tan \delta$ : $\leq 0.008$ Compared to values measured in 4.12.1.
		Voltage proof 1200 V <sub>DC</sub> ; 1 min between term	No permanent breakdown or flash-over
		Insulation resistance	$\geq 50\%$ of values specified in section "Insulation Resistance" of this specification
<b>SUB GROUP C3</b>	<b>D</b>		
4.13.1 Initial measurements		Capacitance Tangent of loss angle: For C $\leq 470$ nF at 100 kHz For C $> 470$ nF at 10 kHz	
4.13 Impulse voltage		3 successive impulses, full wave, peak voltage: X1: 4 kV Max. 24 pulses	No selfhealing breakdowns or flashover
4.14 Endurance		Duration: 1000 h 1.25 U <sub>RAC</sub> at 105 °C Once in every hour the voltage is increased to 1000 V <sub>RMS</sub> for 0.1 s via resistor of $47 \Omega \pm 5\%$	
<b>SUB GROUP C3</b>	<b>D</b>		
4.14.7 Final measurements		Visual examination	No visible damage Legible marking
		Capacitance	$ \Delta C/C  \leq 10\%$ compared to values measured in 4.13.1.
		Tangent of loss angle	Increase of $\tan \delta$ : $\leq 0.008$ Compared to values measured in 4.13.1.
		Voltage proof 1200 V <sub>DC</sub> ; 1 min between terminations 2050 V <sub>DC</sub> ; 1 min between terminations and case	No permanent breakdown or flash-over
		Insulation resistance	$\geq 50\%$ of values specified in section "Insulation Resistance" of this specification



GROUP C INSPECTION REQUIREMENTS			
SUB-CLAUSE NUMBER AND TEST	D OR ND	CONDITIONS	PERFORMANCE REQUIREMENTS
<b>SUB-GROUP C 4</b>	<b>D</b>		
4.15 Charge and discharge		10 000 cycles (50 c/s) charge to $U_R$ half sinewave Duration: 5 ms Discharge resistance: $R = \frac{385 V_{DC}}{1.5 \times C(dU/dt)}$ $R_{min.} = 2.2$	
4.15.1 Initial measurements		Capacitance Tangent of loss angle For $C \leq 470$ nF at 100 kHz For $C > 470$ nF at 10 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 $\tan \delta$ : $\leq 0.008$ Compared to values measured in 4.15.1  $\geq 50$ % of values specified in section "Insulation Resistance" of this specification
<b>SUB-GROUP C5</b>	<b>D</b>		
4.16 Radio frequency characteristic		Resonance frequency	As specified in section "Resonant Frequency" of this specification. $\pm 10$ %
<b>SUB-GROUP C6</b>	<b>D</b>		
4.17 Passive flammability Class B		Bore of gas jet: $\varnothing 0.5$ mm Fuel: Butane Test duration for actual volume V in mm <sup>3</sup> : $V \leq 250$ : 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.
<b>SUB-GROUP C7</b>	<b>D</b>		
4.18 Active flammability		20 x 4 kV discharges on the test capacitor connected to $U_R$	The cheese cloth around the capacitors shall not burn with a flame. No electrical measurements are required.



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<a href="#">BFC233616103</a>	<a href="#">BFC233616683</a>	<a href="#">BFC233619005</a>	<a href="#">BFC233610473</a>	<a href="#">BFC233617333</a>	<a href="#">BFC233611222</a>	<a href="#">BFC233617474</a>
<a href="#">BFC233619004</a>	<a href="#">BFC233617334</a>	<a href="#">BFC233619008</a>	<a href="#">BFC233617473</a>	<a href="#">BFC233610153</a>	<a href="#">BFC233614683</a>	<a href="#">BFC233619002</a>
<a href="#">BFC233610472</a>	<a href="#">BFC233611223</a>	<a href="#">BFC233617332</a>	<a href="#">BFC233619009</a>	<a href="#">BFC233616224</a>	<a href="#">BFC233611474</a>	<a href="#">BFC233613472</a>
<a href="#">BFC233619001</a>	<a href="#">BFC233610105</a>	<a href="#">BFC233616222</a>	<a href="#">BFC233613473</a>	<a href="#">BFC233610474</a>	<a href="#">BFC233610103</a>	<a href="#">BFC233614333</a>
<a href="#">BFC233617224</a>	<a href="#">BFC233611473</a>	<a href="#">BFC233610334</a>	<a href="#">BFC233611154</a>	<a href="#">BFC233619007</a>	<a href="#">BFC233616223</a>	<a href="#">BFC233611102</a>
<a href="#">BFC233611153</a>	<a href="#">BFC233610102</a>	<a href="#">BFC233610104</a>	<a href="#">BFC233611152</a>	<a href="#">BFC233617222</a>	<a href="#">BFC233617223</a>	<a href="#">BFC233611472</a>
<a href="#">BFC233611332</a>	<a href="#">BFC233611334</a>	<a href="#">BFC233614153</a>	<a href="#">BFC233616472</a>	<a href="#">BFC233613103</a>	<a href="#">BFC233613102</a>	<a href="#">BFC233616473</a>
<a href="#">BFC233616474</a>	<a href="#">BFC233613104</a>	<a href="#">BFC233616153</a>	<a href="#">BFC233610332</a>	<a href="#">BFC233611684</a>	<a href="#">BFC233614472</a>	<a href="#">BFC233611683</a>
<a href="#">BFC233613152</a>	<a href="#">BFC233611103</a>	<a href="#">BFC233614473</a>	<a href="#">BFC233611104</a>	<a href="#">BFC233613153</a>	<a href="#">BFC233613154</a>	<a href="#">BFC233610333</a>
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<a href="#">BFC233610682</a>	<a href="#">BFC233613333</a>	<a href="#">BFC233611333</a>	<a href="#">BFC233614154</a>	<a href="#">BFC233617682</a>	<a href="#">BFC233614152</a>	<a href="#">BFC233614102</a>
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<a href="#">BFC233614332</a>	<a href="#">BFC233617684</a>					