

## Interference Suppression Film Capacitor - Class X2 Axial MKT 253 V<sub>AC</sub> - Continuous Across the Line



### FEATURES

- Axial mounting
- Low building height
- Material categorization:  
for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**  
**GREEN**  
(5-2008)

### APPLICATIONS

High stability grade for continuous across the line X2 applications.

See also application note: [www.vishay.com/doc?28153](http://www.vishay.com/doc?28153)

QUICK REFERENCE DATA	
Capacitance range	0.01 $\mu$ F to 3.3 $\mu$ F (preferred values according to E6)
Capacitance tolerance	0.01 $\mu$ F to $\leq$ 0.1 $\mu$ F: $\pm$ 20 % and $\pm$ 10 % 0.12 $\mu$ F to $\leq$ 3.3 $\mu$ F: $\pm$ 10 %
Rated AC voltage range, U <sub>RAC</sub>	253 V <sub>AC</sub> ; 50 Hz to 60 Hz
Permissible DC voltage <sup>(1)</sup>	630 V <sub>DC</sub>
Climatic testing class (according to IEC 60068-1)	C $\leq$ 1.0 $\mu$ F = 40 / 100 / 21 / C C > 1.0 $\mu$ F = 40 / 085 / 21 / C
Maximum application temperature	100 °C
Leads	Tinned wire
Reference standards	IEC 60384-14 ed-4 (2013) and EN 60384-14, UL 60384-14 ed-2 (2014); CSA E60384-1:14 ed-3 (2014) and CSA E60384-14:14 ed-2 (2014)
Dielectric	Polyester film
Electrodes	Metallized
Construction	Series construction
Encapsulation	Plastic, 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

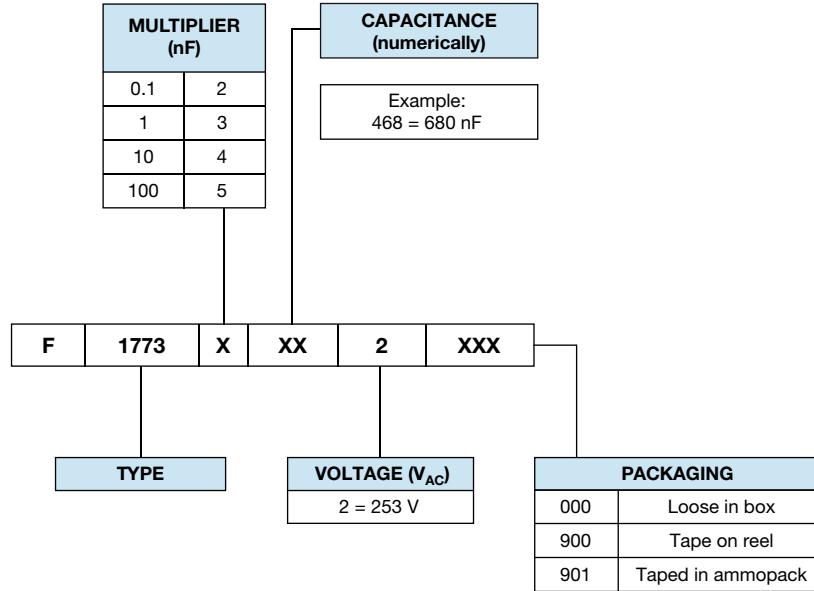
### Notes

- For more detailed data and test requirements, contact [rfi@vishay.com](mailto:rfi@vishay.com)
- For general information like characteristics and definitions used for film capacitors follow the link: [www.vishay.com/doc?28147](http://www.vishay.com/doc?28147)
- (1) See document "Voltage Proof Test for Metalized Capacitors" ([www.vishay.com/doc?28169](http://www.vishay.com/doc?28169))

DIMENSIONS in millimeters	
<b>LEAD DIAMETER</b> $d_t$	<b>D</b>
0.7 $\pm$ 0.07	$\leq$ 7
0.8 $\pm$ 0.08	> 7 to < 16.5
1.0 $\pm$ 0.1	$\geq$ 16.5



COMPOSITION OF CATALOG NUMBER



Note

- For detailed tape specifications refer to "Packaging information" [www.vishay.com/doc?28139](http://www.vishay.com/doc?28139) or end of catalog




SPECIFIC REFERENCE DATA	
DESCRIPTION	VALUE
Rated AC voltage (U <sub>RAC</sub> )	253 V
Permissible DC voltage (U <sub>RDC</sub> )	630 V
Tangent of loss angle	≤ 100 x 10 <sup>-4</sup> at 1 kHz
Rated voltage pulse slope (dU/dt) <sub>R</sub> at 350 V <sub>DC</sub>	
L 19 mm	200 V/μs
L 26.5 mm	150 V/μs
L 31.5 mm	100 V/μs
L 41.5 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 (AC) voltage between leads and cover	2000 V; 1 min
Withstanding (DC) voltage (cut off current 10 mA); rise time 100 V/s	1200 V; 1 min
Maximum application temperature	100 °C



ELECTRICAL DATA AND ORDERING CODE							
U <sub>RAC</sub> (V)	CAP. (μF)	TOLERANCE (%)	PITCH (mm)	DIMENSIONS D x L (mm)	MASS (g)	SPQ <sup>(1)</sup> (pieces)	ORDERING CODE <sup>(2)</sup>
253	<b>d<sub>t</sub> = 0.70 mm ± 0.07 mm</b>						
	0.010	± 20	22.5	6.0 x 19.0	0.9	1500	F17733102000
	0.012	± 20	22.5	6.0 x 19.0	0.9	1500	F17733122000
	0.015	± 20	22.5	6.0 x 19.0	0.9	1500	F17733152000
	0.018	± 20	22.5	6.0 x 19.0	0.9	1500	F17733182000
	0.022	± 20	22.5	6.0 x 19.0	0.8	1500	F17733222000
	0.027	± 20	22.5	6.0 x 19.0	0.8	1500	F17733272000
	0.033	± 20	22.5	6.0 x 19.0	0.8	1500	F17733332000
	0.039	± 20	22.5	6.0 x 19.0	0.8	1500	F17733392000
	0.047	± 20	22.5	6.0 x 19.0	0.8	1500	F17733472000
	<b>d<sub>t</sub> = 0.80 mm ± 0.08 mm</b>						
	0.056	± 20	22.5	7.0 x 19.0	1.1	1500	F17733562000
	0.068	± 20	22.5	7.5 x 19.0	1.2	1500	F17733682000
	0.082	± 20	22.5	8.0 x 19.0	1.4	1500	F17733822000
	0.10	± 20	22.5	8.5 x 19.0	1.6	1000	F17734102000
	0.12	± 10	22.5	9.5 x 19.0	1.7	1000	F17734122000
	0.15	± 10	22.5	10.5 x 19.0	2.0	1000	F17734152160
	0.15	± 10	30.0	8.0 x 26.5	1.9	1000	F17734152000
	0.18	± 10	30.0	9.0 x 26.5	2.2	1000	F17734182000
	0.22	± 10	30.0	9.0 x 26.5	2.5	1000	F17734222000
	0.27	± 10	30.0	10.5 x 26.5	2.9	750	F17734272000
	0.33	± 10	30.0	11.0 x 26.5	3.3	750	F17734332000
	0.39	± 10	30.0	12.0 x 26.5	3.6	750	F17734392000
	0.47	± 10	30.0	13.0 x 26.5	4.4	1250	F17734472000
	0.56	± 10	30.0	14.5 x 26.5	5.6	1000	F17734562160
	0.56	± 10	35.0	12.5 x 31.5	5.6	1000	F17734562000
	0.68	± 10	35.0	14.0 x 31.5	6.0	1000	F17734682000
	<b>d<sub>t</sub> = 1.0 mm ± 0.1 mm</b>						
	0.82	± 10	35.0	15.5 x 31.5	6.8	750	F17734822000
	1.0	± 10	35.0	17.0 x 31.5	8.0	750	F17735102000
	1.2	± 10	35.0	18.5 x 31.5	9.3	500	F17735122000
	1.5	± 10	45.0	17.0 x 41.5	11.5	500	F17735152000
	1.8	± 10	45.0	18.5 x 41.5	14.0	450	F17735182000
	2.2	± 10	45.0	20.0 x 41.5	16.0	400	F17735222000
	2.7	± 10	45.0	22.5 x 41.5	18.0	400	F17735272000
	3.3	± 10	45.0	25.0 x 41.5	24.0	400	F17735332000

**Notes**

- For detailed tape specifications refer to packaging information: [www.vishay.com/doc?28139](http://www.vishay.com/doc?28139) or end of catalog
- <sup>(1)</sup> SPQ = standard packing quantity
- <sup>(2)</sup> These capacitors can be delivered on continuous tape and reel; the ordering code is F1773...2900 taped on reel, F1773...2901 taped ammpack

<b>APPROVALS</b>				
<b>SAFETY APPROVALS X2</b>	<b>VOLTAGE</b>	<b>VALUE</b>	<b>FILE NUMBERS</b>	<b>LINK</b>
EN 60384-14 (ENEC) (= IEC 60384-14 ed-4 (2013))	253 V <sub>AC</sub>	0.01 µF to 3.3 µF X2	40005089	<a href="http://www.vishay.com/doc?28222">www.vishay.com/doc?28222</a>
UL 60384-14 ed-2 (2014)	253 V <sub>AC</sub>	0.01 µF to 3.3 µF X2	E354331	<a href="http://www.vishay.com/doc?28240">www.vishay.com/doc?28240</a>
CSA E60384-1:14 ed-3 (2014) and CSA E60384-14:14 ed-2 (2014)	253 V <sub>AC</sub>	0.01 µF to 3.3 µF X2	E354331	<a href="http://www.vishay.com/doc?28240">www.vishay.com/doc?28240</a>
CB Test-Certificate	253 V <sub>AC</sub>	0.01 µF to 3.3 µF X2	DE1-58633	<a href="http://www.vishay.com/doc?28239">www.vishay.com/doc?28239</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; Sweden; Switzerland and United Kingdom.				
  				

## MOUNTING

### Normal Use

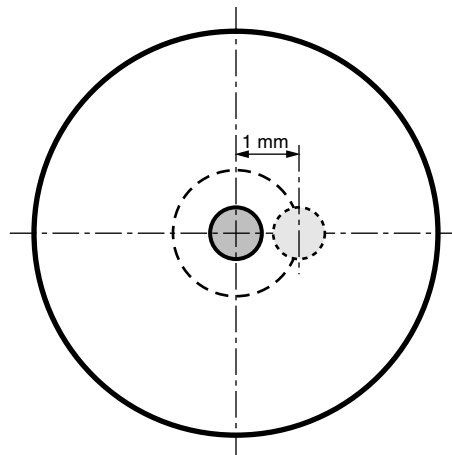
The capacitors are designed for mounting on printed-circuit boards. The capacitors packed in bandoliers are designed for mounting in printed-circuit boards by means of automatic insertion machines.

For detailed tape specifications refer to packaging information: [www.vishay.com/doc?28139](http://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 ensured that capacitor body is in good contact with the printed-circuit board:

- For  $L \leq 19$  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
- For the maximum product dimensions for length ( $L_{max.}$ ) and diameter ( $D_{max.}$ ) use the following tolerances:  
 $L_{max.} = L + \Delta L$     $D_{max.} = D + \Delta D$   
 pitch = 22.5 mm x  $\Delta L = \Delta D = 0.7$  mm  
 pitch = 30 mm x  $\Delta L = \Delta D = 1.0$  mm  
 pitch  $\geq 35$  mm x  $\Delta L = \Delta D = 1.5$  mm
- Eccentricity as shown in the drawing below:



**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**

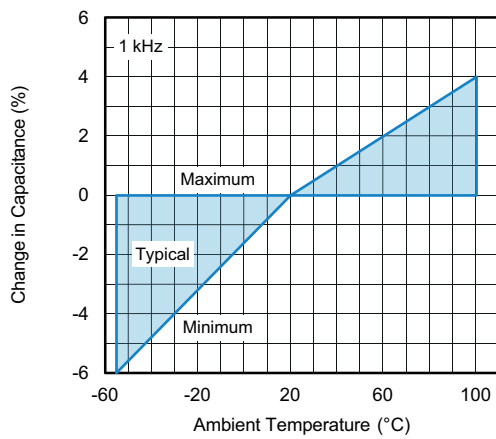
- $T_{stg} = -25\text{ °C to }+35\text{ °C}$  with RH maximum 75 % without condensation

**Ratings and Characteristics Reference Conditions**

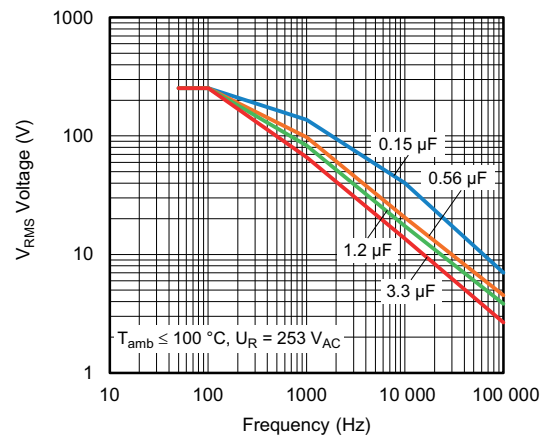
Unless otherwise specified, all electrical values apply to an ambient temperature of  $23\text{ °C} \pm 1\text{ °C}$ , an atmospheric pressure of 86 kPa to 106 kPa and a relative humidity of  $50\% \pm 2\%$ .

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

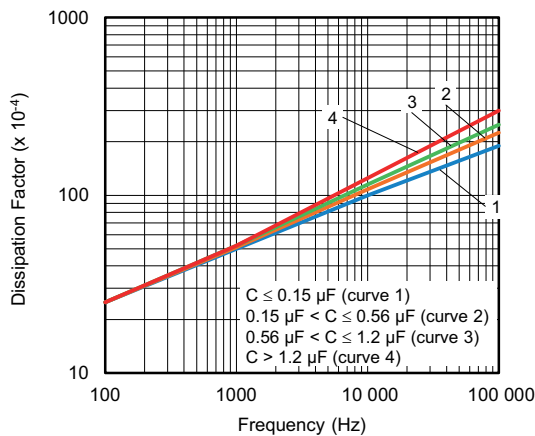
**CHARACTERISTICS**



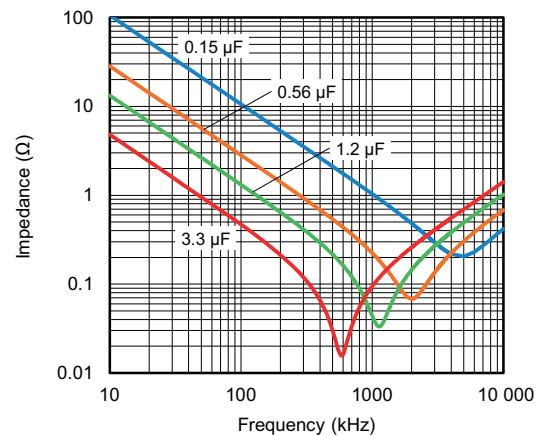
Capacitance as a function of ambient temperature (typical curve)



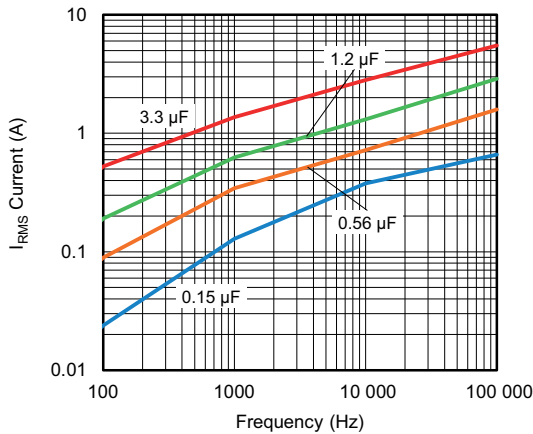
Max. RMS voltage as a function of frequency



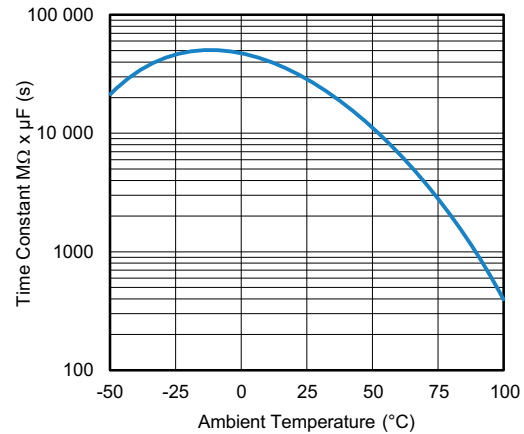
Tangent of loss angle as a function of frequency (typical curve)



Impedance as a function of frequency (typical curve) at  $T_{amb} = 20\text{ °C}$  (average), measurement with length 6 mm



Max. RMS current as a function of frequency



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

### APPLICATION NOTES AND LIMITING CONDITIONS

- For X2 electromagnetic interference suppression in standard across the line applications (50 Hz / 60 Hz) with a maximum of 253 V<sub>AC</sub> rated voltage including fluctuation of the mains. It is recommended to use these components in a mains with maximum nominal voltage of 230 V<sub>AC</sub>. Higher continuous applied voltages will shorten the life time
- These capacitors are not intended for continuous pulse application. For these situations capacitors of the AC and pulse programs must be used
- For series impedance applications we refer to application note: [www.vishay.com/doc?28153](http://www.vishay.com/doc?28153)
- The maximum ambient temperature must not exceed 100 °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 350 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-3 and Specific Reference Data”.

<b>GROUP C INSPECTION REQUIREMENTS</b>		
<b>SUB-CLAUSE NUMBER AND TEST</b>	<b>CONDITIONS</b>	<b>PERFORMANCE REQUIREMENTS</b>
<b>SUB-GROUP C1A PART OF SAMPLE OF SUB-GROUP C1</b>		
4.1 Dimensions (detail)		As specified in chapters “General Data” of this specification
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	
4.3 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	
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 $\tan \delta$ : $\leq 0.008$ for: $C \leq 1 \mu\text{F}$ or $\leq 0.005$ for: $C > 1 \mu\text{F}$ 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>		
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	
4.20 Solvent resistance of the marking	Isopropylalcohol at room temperature Method: 1 Rubbing material: cotton wool Immersion time: 5 min ± 0.5 min	No visible damage Legible marking
4.6 Rapid change of temperature	$\theta A = -40 \text{ °C}$ $\theta B = +100 \text{ °C}$ 5 cycles Duration $t = 30 \text{ min}$	
4.6.1 Inspection	Visual examination	No visible damage



<b>GROUP C INSPECTION REQUIREMENTS</b>		
<b>SUB-CLAUSE NUMBER AND TEST</b>	<b>CONDITIONS</b>	<b>PERFORMANCE REQUIREMENTS</b>
<b>SUB-GROUP C1B PART OF SAMPLE OF SUB-GROUP C1</b>		
4.7 Vibration	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	
4.7.2 Final inspection	Visual examination	No visible damage
4.9 Shock	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 $\tan \delta$ : $\leq 0.008$ for: $C \leq 1 \mu\text{F}$ or $\leq 0.005$ for: $C > 1 \mu\text{F}$ 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>		
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: 100 °C Duration: 16 h	
4.11.3 Damp heat cyclic Test Db First cycle		
4.11.4 Cold	Temperature: -40 °C Duration: 2 h	
4.11.5 Damp heat cyclic Test Db remaining cycles		

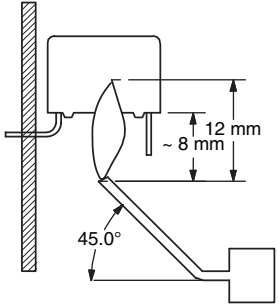




GROUP C INSPECTION REQUIREMENTS		
SUB-CLAUSE NUMBER AND TEST	CONDITIONS	PERFORMANCE REQUIREMENTS
<b>SUB-GROUP C1 COMBINED SAMPLE OF SPECIMENS OF SUB-GROUPS C1A AND C1B</b>		
4.11.6 Final measurements	Visual examination  Capacitance  Tangent of loss angle  Voltage proof 1200 V <sub>DC</sub> ; 1 min between terminations  Insulation resistance	No visible damage Legible marking  $ \Delta C/C  \leq 5\%$ of the value measured in 4.11.1.  Increase of tan $\delta$ : $\leq 0.008$ for: $C \leq 1 \mu\text{F}$ or $\leq 0.005$ 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
<b>SUB-GROUP C2</b>		
4.12 Damp heat steady state	21 days; 40 °C; 90 % to 95 % RH no load	
4.12.1 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	
4.12.3 Final measurements	Visual examination  Capacitance  Tangent of loss angle  Voltage proof 1200 V <sub>DC</sub> ; 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 $\delta$ : $\leq 0.008$ for: $C \leq 1 \mu\text{F}$ or $\leq 0.005$ 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
<b>SUB-GROUP C3</b>		
4.13.1 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	
4.13 Impulse voltage	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	No self healing breakdowns or flash-over



GROUP C INSPECTION REQUIREMENTS		
SUB-CLAUSE NUMBER AND TEST	CONDITIONS	PERFORMANCE REQUIREMENTS
<b>SUB-GROUP C3</b>		
4.14 Endurance	Duration: 1000 h 1.25 x U <sub>RAC</sub> at 100 °C Once in every hour the voltage is increased to 1000 V <sub>RMS</sub> for 0.1 s via resistor of 47 Ω ± 5 %	
4.14.7 Final measurements	Visual examination  Capacitance  Tangent of loss angle  Voltage proof 1200 V <sub>DC</sub> ; 1 min between terminations 2000 V <sub>AC</sub> ; 1 min between terminations and case  Insulation resistance	No visible damage Legible marking   ΔC/C  ≤ 10 % compared to values measured in 4.13.1.  Increase of tan δ: ≤ 0.008 for: C ≤ 1 μF or ≤ 0.005 for: C > 1 μF Compared to values measured in 4.13.1.  No permanent breakdown or flash-over  ≥ 50 % of values specified in section "Insulation Resistance" of this specification
<b>SUB-GROUP C4</b>		
4.15 Charge and discharge	10 000 cycles Charged to 350 V <sub>DC</sub> Discharge resistance: $R = \frac{350 V_{DC}}{2 \times C (dU/dt)}$	
4.15.1 Initial measurements	Capacitance Tangent of loss angle: for C ≤ 1 μF at 10 kHz or for C > 1 μF at 1 kHz	
4.15.3 Final measurements	Capacitance  Tangent of loss angle  Insulation resistance	ΔC/C  ≤ 10 % compared to values measured in 4.15.1.  Increase of tan δ: ≤ 0.008 for: C ≤ 1 μF or ≤ 0.005 for: C > 1 μF Compared to values measured in 4.15.1.  ≥ 50 % of values specified in section "Insulation Resistance" of this specification
<b>SUB-GROUP C5</b>		
4.16 Radio frequency characteristic	Resonance frequency	≥ 0.9 times the value as specified in section "Resonant Frequency" of this specification

<b>GROUP C INSPECTION REQUIREMENTS</b>		
<b>SUB-CLAUSE NUMBER AND TEST</b>	<b>CONDITIONS</b>	<b>PERFORMANCE REQUIREMENTS</b>
<b>SUB-GROUP C6</b>		
4.17 Passive flammability Class C	Bore of gas jet: $\varnothing$ 0.5 mm Fuel: butane Test duration for actual volume $V$ in $\text{mm}^3$ : $V \leq 250$ : 5 s $250 < V \leq 500$ : 10 s $500 < V \leq 1750$ : 20 s $V > 1750$ : 30 s One flame application 	After removing test flame from capacitor, the capacitor must not continue to burn for more than 30 s. No burning particle must drop from the sample.
<b>SUB-GROUP C7</b>		
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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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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