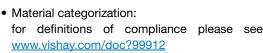


THB Grade IIIB Class X2 Interference Suppression Film Capacitor Radial MKP 305 V_{AC} - Across the Line



FEATURES

 IEC 60384-14: 2013 / AMD1: 2016 grade IIIB: 85 °C, 85 % RH, 1000 h at U_{RAC}





ROHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

APPLICATIONS

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

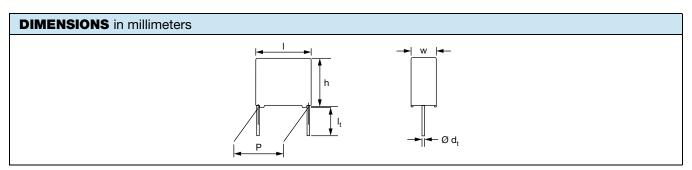
ADDITIONAL RESOURCES



QUICK REFERENCE DATA	
Rated capacitance range	1 μF to 20 μF (preferred values according to E12)
Capacitance tolerance	± 20 %; ± 10 %
Climatic testing class according to IEC 60068-1	40 / 105 / 56B
Rated AC voltage	305 V _{AC} ; 50 Hz to 60 Hz
Permissible DC voltage	630 V _{DC} at 105 °C
Maximum application temperature	105 °C
Reference standards	EC 60384-14:2013 IEC 60384-14:2013 / AMD1:2016 EN 60384-14 IEC 60065 requires passive flammability class B: for volume ≥ 1750 mm ³ UL 60384-14 (2 nd edition) CSA-E60384-1:14 (3 rd edition)
Dielectric	Polypropylene film
Electrodes	Metallized
Construction	Mono construction
Encapsulation	Plastic case, epoxy resin sealed, flame retardant UL-class 94 V-0
Terminals	Tinned wire
Marking	C-value; tolerance; rated voltage; sub-class; manufacturer's type designation; 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

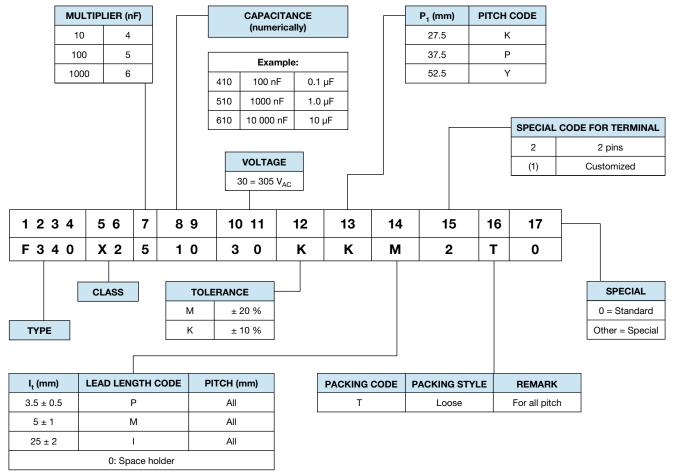


Note

• Ø dt \pm 10 % of standard diameter specified



COMPOSITION OF CATALOG NUMBER



Note

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

SPECIFIC REFERENCE DATA		
DESCRIPTION	VAI	LUE
Rated AC voltage (U _{RAC})	305	V _{AC}
Permissible DC voltage (U _{RDC})	630	V_{DC}
Tangent of loss angle:	At 1 kHz	At 10 kHz
1 μF < C ≤ 4.7 μF	≤ 30 x 10 ⁻⁴	≤ 60 x 10 ⁻⁴
$4.7 \mu F < C \le 12 \mu F$	≤ 50 x 10 ⁻⁴	-
C > 12 µF	$\leq 100 \times 10^{-4}$	-
Rated voltage pulse slope (du/dt) _R at 435 V _{DC}		
Pitch = 27.5 mm	100 V/μs	
Pitch = 37.5 mm	50 V/μs	
Pitch = 52.5 mm	15 V/µs	
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) ⁽¹⁾ ; rise time ≤ 1000 V/s:		
1 μ F \leq C \leq 12 μ F	2200 V	/; 1 min
> 12 µF	1800 V; 1 min	
Withstanding (AC) voltage between leads and case	2110 V; 1 min	

Note

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



www.vishay.com Vishay BCcomponents

				CATALOG NUMBER F340X2 AND PACKAGING				
URAC	CAP.	DIMENSIONS (1)	MASS		LOOSE IN BO	LOOSE IN BOX		
(V)	(μ F)	w x h x l (mm)	(g)	SHC	ORT LEADS		LONG LEADS	
		(11111)		I _t = 3.5 mm ± 0.5 mm	I _t = 5.0 mm ± 1.0 mm	SPQ	I _t = 25.0 mm ± 2.0 mm	SPQ
			PITCH =	27.5 mm ± 0.4 mm; d _t = 0	0.80 mm ± 0.08 mm; C-TO	L. = ± 2	20 %	
	1.0	15.0 x 25.0 x 32.0	14.0	51030MKP2T0	51030MKM2T0	95	51030MKI2T0	95
	1.5	15.0 x 25.0 x 32.0	13.1	51530MKP2T0	51530MKM2T0	95	51530MKI2T0	95
	2.2	18.0 x 28.0 x 32.0	17.9	52230MKP2T0	52230MKM2T0	80	52230MKI2T0	80
	3.3	21.0 x 31.0 x 32.0	23.6	53330MKP2T0	53330MKM2T0	65	53330MKI2T0	65
	4.7	22.0 x 38.0 x 32.0	29.1	54730MKP2T0	54730MKM2T0	65	54730MKI2T0	60
			PITCH	= 37.5 mm ± 0.5 mm; d _t =	1.0 mm ± 0.1 mm; C-TOL	= ± 20) %	
	6.8	21.5 x 38.5 x 42.0	36.9	56830MPP2T0	56830MPM2T0	84	56830MPI2T0	84
	10	30.0 x 45.0 x 42.0	64.9	61030MPP2T0	61030MPM2T0	63	61030MPI2T0	63
			PITCH :	= 52.5 mm ± 0.5 mm; d _t =	1.2 mm ± 0.12 mm; C-TOL	. = ± 2	0 %	
	15	30.0 x 45.0 x 57.5	85.9	61530MYP2T0	61530MYM2T0	45	61530MYI2T0	45
	20	35.0 x 50.0 x 57.5	114.7	62030MYP2T0	62030MYM2T0	40	62030MYI2T0	40
			PITCH =	27.5 mm ± 0.4 mm; d _t = 0	0.80 mm ± 0.08 mm; C-TO	L. = ± 1	10 %	
	1.0	15.0 x 25.0 x 32.0	13.9	51030KKP2T0	51030KKM2T0	95	51030KKI2T0	95
	1.2	15.0 x 25.0 x 32.0	13.3	51230KKP2T0	51230KKM2T0	95	51230KKI2T0	95
305	1.5	15.0 x 25.0 x 32.0	12.9	51530KKP2T0	51530KKM2T0	95	51530KKI2T0	95
305	1.8	18.0 x 28.0 x 32.0	18.1	51830KKP2T0	51830KKM2T0	80	51830KKI2T0	80
	2.2	18.0 x 28.0 x 32.0	17.5	52230KKP2T0	52230KKM2T0	80	52230KKI2T0	80
	2.7	21.0 x 31.0 x 32.0	23.9	52730KKP2T0	52730KKM2T0	65	52730KKI2T0	65
	3.3	21.0 x 31.0 x 32.0	22.9	53330KKP2T0	53330KKM2T0	65	53330KKI2T0	65
	3.9	22.0 x 38.0 x 32.0	29.5	53930KKP2T0	53930KKM2T0	65	53930KKI2T0	60
	4.7	22.0 x 38.0 x 32.0	28.4	54730KKP2T0	54730KKM2T0	65	54730KKI2T0	60
			PITCH	= 37.5 mm ± 0.5 mm; d _t =	1.0 mm ± 0.1 mm; C-TOL.	. = ± 10) %	
	5.6	21.5 x 38.5 x 42.0	33.8	55630KPP2T0	55630KPM2T0	84	55630KPI2T0	84
	6.8	21.5 x 38.5 x 42.0	31.6	56830KPP2T0	56830KPM2T0	84	56830KPI2T0	84
	8.2	30.0 x 45.0 x 42.0	57.4	58230KPP2T0	58230KPM2T0	63	58230KPI2T0	63
	10	30.0 x 45.0 x 42.0	53.2	61030KPP2T0	61030KPM2T0	63	61030KPI2T0	63
	12	30.0 x 45.0 x 42.0	49.3	61230KPP2T0	61230KPM2T0	63	61230KPI2T0	63
			PITCH :	= 52.5 mm ± 0.5 mm; d _t =	1.2 mm ± 0.12 mm; C-TOL	= ± 1	0 %	
	15	30.0 x 45.0 x 57.5	83.9	61530KYP2T0	61530KYM2T0	45	61530KYI2T0	45
	18	35.0 x 50.0 x 57.5	116.1	61830KYP2T0	61830KYM2T0	40	61830KYI2T0	40
	20	35.0 x 50.0 x 57.5	112.0	62030KYP2T0	62030KYM2T0	40	62030KYI2T0	40

Notes

- SPQ = Standard Packing Quantity
- (1) For tolerances see chapter "Dimensions Tolerances"

APPROVALS				
SAFETY APPROVALS X2	VOLTAGE	VALUE	FILE NUMBERS	LINK
EN 60384-14 (ENEC) (= IEC 60384-14 ed-4 2013)	305 V _{AC}	1 μF to 20 μF	40049214	www.vishay.com/doc?28258
UL 60384-14 (2 nd edition)	305 V _{AC}	1 μF to 20 μF	E354331	www.vishay.com/doc?28261
CSA-E60384-1:14 (3 rd edition)	305 V _{AC}	1 μF to 20 μF	E354331	www.vishay.com/doc?28261
CQC	20E V	1 μF to 20 μF	CQC9001219625 (L)	www.vishay.com/doc?28259
CQC	305 V _{AC} 1 μF to 20 μF CQC900121962		CQC9001219626 (F)	www.vishay.com/doc?28260
CB-test certificate	305 V _{AC}	1 μF to 20 μF	DE1-61671	www.vishay.com/doc?28257

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 capacitor unit is 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 www.vishay.com/docs?28139

Specific Method of Mounting to Withstand Vibration and Shock

The capacitor unit is designed for mounting on a printed-circuit board. 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. The capacitor shall be mechanically fixed by the leads and the body clamped.

Dimensions Tolerances

For the maximum product dimensions for length (I_{max.}), width (w_{max.}), and height (h_{max.}) use the following tolerances:

 $I_{max.} = I + \Delta I$, $w_{max.} = w + \Delta w$, and $h_{max.} = h + \Delta h$

- For products with pitch = 27.5 mm, $\Delta w = \Delta I = \Delta h = 0.7$ mm
- For products with pitch = 37.5 mm, $\Delta w = \Delta I = \Delta h = 0.7$ mm
- For products with pitch = 52.5 mm, $\Delta w = \Delta l = \Delta h = 1.0$ mm

For the minimum product dimensions for length (I_{min.}), width (w_{min.}) and height (h_{min.}) following tolerances of the components are valid:

 $I_{min.} = I - \Delta I$, $w_{min.} = w - \Delta w$, and $h_{min.} = h - \Delta h$

- For products with pitch = 27.5 mm, $\Delta w = \Delta l = \Delta h = 1.0$ mm
- For products with pitch = 37.5 mm, $\Delta w = \Delta l = \Delta h = 1.0$ mm
- For products with pitch = 52.5 mm, $\Delta w = \Delta l = \Delta h = 1.5$ mm

Space Requirements for Printed-Circuit Board

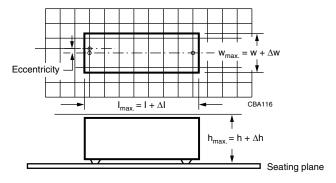
For product height with seating plane as given by "IEC 60717" as reference.

The maximum space for length (I_{max}), width (w_{max}), and height (h_{max}) of film capacitors to take in account on the printed-circuit board is shown in the drawings.

- For products with pitch = 27.5 mm, $\Delta w = \Delta I = \Delta h = 0.7$ mm
- For products with pitch = 37.5 mm, $\Delta w = \Delta l = \Delta h = 0.7$ mm
- For products with pitch = 52.5 mm, $\Delta w = \Delta l = \Delta h = 1.0$ mm

Eccentricity defined as in drawing. The maximum eccentricity is smaller than or equal to the lead diameter of the product concerned.

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



SOLDERING CONDITIONS

For general soldering conditions and wave soldering profile we refer to the document "Soldering Guidelines for Film Capacitors": www.vishay.com/doc?28171

STORAGE TEMPERATURE

T_{sta} = -25 °C to +35 °C with RH maximum 75 % without condensation

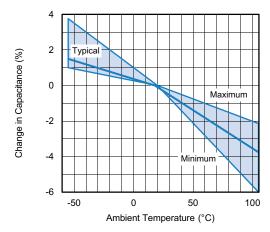
RATINGS AND CHARACTERISTICS REFERENCE CONDITIONS

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 %.

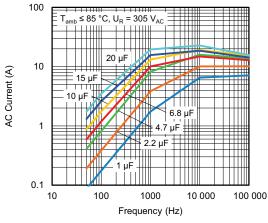
For reference testing, a conditioning period shall be applied over 96 hours ± 4 hours by heating the products in a circulating air oven at the rated temperature and a relative humidity not exceeding 20 %.



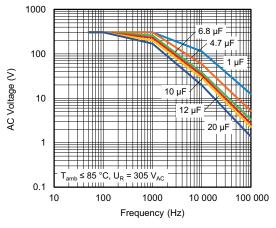
CHARACTERISTICS



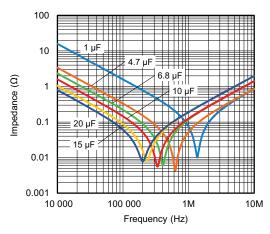
Capacitance as a function of ambient temperature (typical curve)



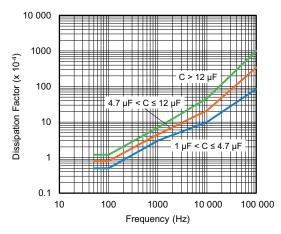
Max. RMS current as a function of frequency



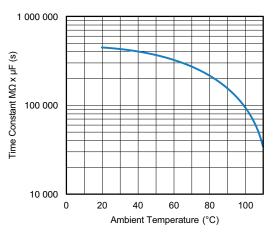
Max. RMS voltage as a function of frequency



Impedance as a function of frequency (typical curve)



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



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



HEAT CONDUCTIVITY (if applicable)			
DIMENSION (mm)			HEAT CONDUCTIVITY
w	h	I	(mW/°C)
15.0	25.0	32.0	33
18.0	28.0	32.0	40
21.0	31.0	32.0	46
22.0	38.0	32.0	55
21.5	38.5	42.0	67
30.0	45.0	42.0	90
30.0	45.0	57.5	113
35.0	50.0	57.5	133

POWER DISSIPATION AND MAXIMUM COMPONENT TEMPERATURE RISE (if applicable)

The power dissipation must be limited in order not to exceed the maximum allowed component temperature rise as a function of the free air ambient temperature.

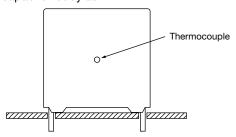
The power dissipation can be calculated according type detail specification www.vishay.com/doc?28147.

The component temperature rise (ΔT) can be measured or calculated by $\Delta T = P/G$:

- ΔT = T_{case} T_{ambient} = case temperature rise (°C) with a maximum of 15 °C at rated temperature
- P = power dissipation of the component (mW)
- G = heat conductivity of the component (mW/°C)

MEASURING THE COMPONENT TEMPERATURE

A thermocouple must be attached to the capacitor body as in:



The case temperature is measured in unloaded (T_{amb}) and loaded condition (T_C).

The temperature rise is given by $\Delta T = T_C - T_{amb}$.

To avoid radiation or convection, the capacitor should be tested in a wind-free box.

APPLICATION NOTES

- For X2 electromagnetic interference suppression in standard across the line applications (50 Hz / 60 Hz) with a maximum of 305 V_{AC} rated voltage including fluctuation of the mains. It is recommended to use these components in a mains with maximum nominal voltage of 240 V_{AC}. Higher continuous applied voltages will shorten the life time
- For series impedance applications we refer to application note www.vishav.com/doc?28153
- To ensure withstanding high humidity requirements in the application the epoxy adhesion at the leads shall not be damaged. Therefore the leads may not be damaged or not be bent before soldering
- 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: rfi@vishav.com
- These capacitors are not intended for continuous pulse applications. For these situations capacitors of the AC and pulse program must be used
- The maximum ambient temperature must not exceed 105 °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 V_{DC} 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".

INSPECTION REQUIREMENTS				
SUB-CLAUSE NUMBER AND TEST	CONDITIONS	PERFORMANCE REQUIREMENTS		
SUB-GROUP C1A PART OF SAMPLE OF	SUB-GROUP C1	-		
4.1 Dimensions (detail)		As specified in chapters "General Data" of this specification		
Initial measurements	Capacitance Tangent of loss angle: for $C \le 1 \mu F$ at 10 kHz for $C > 1 \mu F$ 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 \le 5$ % of the value measured initially		
	Tangent of loss angle	Increase of tan δ : \leq 0.008 for: C \leq 1 μ F or \leq 0.005 for: C $>$ 1 μ F Compared to values measured initially		
	Insulation resistance	As specified in section "Insulation Resistance" of this specification		
SUB-GROUP C1B PART OF SAMPLE OF	SUB-GROUP C1			
Initial measurements	Capacitance Tangent of loss angle: for $C \le 1 \mu F$ at 10 kHz for $C > 1 \mu F$ at 1 kHz			
4.20 Solvent resistance of the marking	Isopropyl alcohol 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	$\theta A = -40 ^{\circ}C$ $\theta B = +105 ^{\circ}C$ 5 cycles Duration t = 30 min			
4.6.1 Inspection	Visual examination	No visible damage		
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/s² (whichever is less severe) Total duration 6 h			



INSPECTION REQUIREMENTS		
SUB-CLAUSE NUMBER AND TEST	CONDITIONS	PERFORMANCE REQUIREMENTS
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/s² Duration of pulse: 11 ms	
4.9.2 Final measurements	Visual examination	No visible damage
	Capacitance	$ \Delta C/C \le 5$ % of the value measured initially
	Tangent of loss angle	Increase of tan δ : ≤ 0.008 for: $C \leq 1$ μF or ≤ 0.005 for: $C > 1$ μF Compared to values measured initially
	Insulation resistance	As specified in section "Insulation Resistance" of this specification
SUB-GROUP C1 COMBINED SAMPLE	OF SPECIMENS OF SUB-GROUPS C1A AND C	IB
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	
4.11.3 Damp heat cyclic Test Db First cycle	Duration: 16 h	
4.11.4 Cold	Temperature: -40 °C	
4.11.5 Damp heat cyclic Test Db remaining cycles	Duration: 2 h	
4.11.6 Final measurements	Visual examination	No visible damage Legible marking
	Capacitance	$ \Delta C/C \le 5$ % of the value measured in 4.11.
	Tangent of loss angle	Increase of tan δ : ≤ 0.008 for: $C \leq 1$ μF or ≤ 0.005 for: $C > 1$ μF Compared to values measured in 4.11.1
	Voltage proof 1350 V _{DC} ; 1 min between terminations	No permanent breakdown or flash-over
	Insulation resistance	≥ 50 % of values specified in section "Insulation Resistance" of this specification



INSPECTION REQUIREMENT		
SUB-CLAUSE NUMBER AND TEST	CONDITIONS	PERFORMANCE REQUIREMENTS
4.12 Damp heat steady state	56 days, 40 °C, 90 % to 95 % RH, no load	
4.12.1 Initial measurements	Capacitance Tangent of loss angle at 1 kHz	
4.12.3 Final measurements	Visual examination	No visible damage Legible marking
	Capacitance	$ \Delta C/C \le 5$ % of the value measured in 4.12.1
	Tangent of loss angle	Increase of $\tan \delta$: ≤ 0.008 for: $C \leq 1 \mu F$ or ≤ 0.005 for: $C > 1 \mu F$ Compared to values measured in 4.12.1.
	Voltage proof 1350 V _{DC} ; 1 min between terminations	No permanent breakdown or flash-over
	Insulation resistance	≥ 50 % of values specified in section "Insulation Resistance" of this specification
SUB-GROUP C2A		
4.12A Damp heat steady state with loa	ad 85 °C, 85 % RH, load: 305 V _{AC} Duration: 1000 h	
4.12.1A Initial measurements	Capacitance Tangent of loss angle: for $C \le 1 \mu F$ at 10 kHz for $C > 1 \mu F$ at 1 kHz	
4.12.3A Final measurements	Visual examination	No visible damage Legible marking
	Capacitance	$ \Delta C/C \le 10$ % of the value measured in 4.12.1A.
	Tangent of loss angle	Increase of $\tan \delta$: ≤ 0.0240 for: $C \leq 1$ µF at 10 kHz > 0.0180 for: $C > 1$ µF at 1 kHz Compared to values measured in 4.12.1A.
	Voltage proof 1350 V _{DC} ; 1 min between terminations	No permanent breakdown or flash-over
	Insulation resistance	≥ 50 % of values specified in section "Insulation Resistance" of this specification



INSPECTION REQUIREMENTS		
SUB-CLAUSE NUMBER AND TEST	CONDITIONS	PERFORMANCE REQUIREMENTS
SUB-GROUP C3		
4.13.1 Initial measurements	Capacitance Tangent of loss angle: for C ≤ 1 μF at 10 kHz for C > 1 μF at 1 kHz	
4.13 Impulse voltage	3 successive impulses, full wave, peak voltage: X2: 2.5 kV for C \leq 1 μ F X2: 2.5 kV \sqrt{C} for C $>$ 1 μ F Max. 24 pulses	No self healing, breakdowns, or flash-over
4.14 Endurance	Duration: 1000 h 1.25 x U_{RAC} at 105 °C Once in every hour the voltage is increased to 1000 V_{RMS} for 0.1 s	
4.14.7 Final measurements	Visual examination	No visible damage Legible marking
	Capacitance	$ \Delta C/C \le 10$ % compared to values measured in 4.13.1.
	Tangent of loss angle	Increase of tan δ : \leq 0.008 for: C \leq 1 μ F or \leq 0.005 for: C > 1 μ F Compared to values measured in 4.13.1
	Voltage proof 1350 V_{DC} ; 1 min between terminations 2120 V_{AC} ; 1 min between terminations and case	No permanent breakdown or flash-over
	Insulation resistance	≥ 50 % of values specified in section "Insulation Resistance" of this specification
SUB-GROUP C4	·	
4.15 Charge and discharge	10 000 cycles Charged to 435 V_{DC} Discharge resistance: $R = \frac{435 V_{DC}}{1.25 \times C (du/dt)}$	
4.15.1 Initial measurements	Capacitance Tangent of loss angle: for $C \le 1 \mu F$ at 10 kHz for $C > 1 \mu F$ at 1 kHz	
4.15.3 Final measurements	Capacitance	$ \Delta C/C \le 10$ % compared to values measured in 4.15.1.
	Tangent of loss angle	Increase of tan δ : ≤ 0.008 for: $C \leq 1 \mu F$ or ≤ 0.005 for: $C > 1 \mu F$ Compared to values measured in 4.15.1
	Insulation resistance	≥ 50 % of values specified in section "Insulation Resistance" of this specification



INSPECTION REQUIREMENTS	5	
SUB-CLAUSE NUMBER AND TEST	CONDITIONS	PERFORMANCE REQUIREMENTS
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 for volume > 1750 mm ³ Class C for volume ≤ 1750 mm ³	Bore of gas jet: \emptyset 0.5 mm Fuel: butane Test duration for actual volume V in mm ³ : $V \le 250$: 5 s $250 < V \le 500$: 10 s $500 < V \le 1750$: 20 s V > 1750: $60 sOne flame application:$	After removing test flame from capacitor, the capacitor must not continue to burn for more than 30 s for V ≤ 1750 mm³ and 10 s for V > 1750 mm³. No burning particle must drop from the sample.
SUB-GROUP C7		1
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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