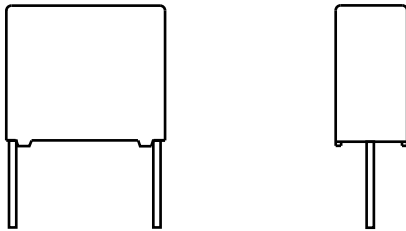


Interference Suppression Film Capacitors MKP Radial Potted Type


FEATURES


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


RoHS
COMPLIANT

APPLICATIONS

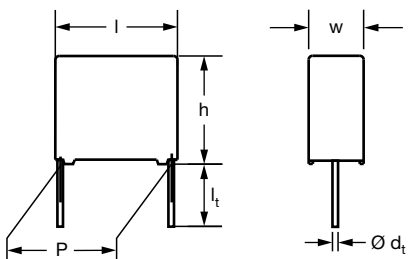
For standard across the line X1 applications.

 See also application note: www.vishay.com/doc?28153

QUICK REFERENCE DATA	
Capacitance range (E12 series)	E12 series 0.01 μ F to 1 μ F preferred values acc. to E6
Capacitance tolerance	$\pm 20\%$, $\pm 10\%$, $\pm 5\%$
Rated AC voltage	440 V _{AC} ; 50 Hz to 60 Hz
Permissible DC voltage	1000 V _{DC}
Climatic testing class acc. to IEC 60068-1	50/105/56/C for product volumes > 1750 mm ³ 50/105/56/B for volumes \leq 1750 mm ³
Maximum application temperature	105 °C
Reference standards	IEC 60384-14 ed-3 and EN 60384-14 IEC 60065 pass. flamm. class B for volumes > 1750 mm ³ UL 60384-14
Dielectric	Polypropylene film
Electrodes	Metallized film
Construction	Mono construction 
Encapsulation	Plastic case, epoxy resin sealed, flame retardant UL-class 94 V-0
Leads	Tinned wire
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

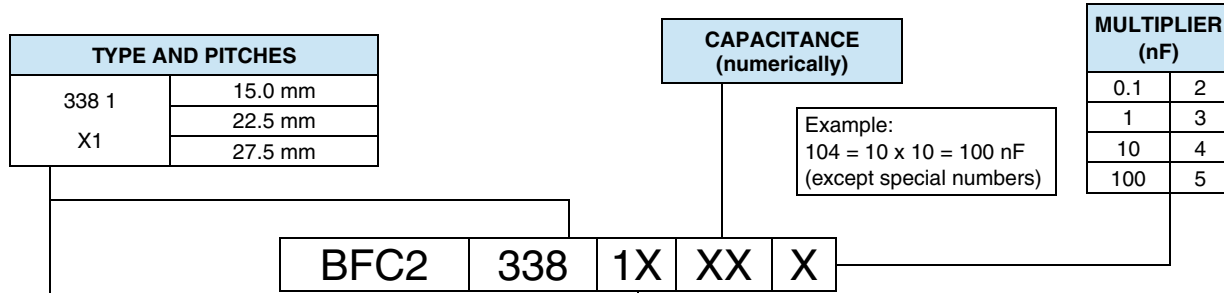
Note

- For more detailed data and test requirements, contact rfi@vishay.com

DIMENSIONS




COMPOSITION OF CATALOG NUMBER



TYPE	PACKAGING	LEAD CONFIGURATION	C-TOL.	PREFERRED TYPES
338 1 X1	Loose in box	Lead length 3.5 mm ± 0.3 mm	± 20 %	BFC2 338 10 ...
		Lead length 5.0 mm ± 1.0 mm		BFC2 338 12 ...
		Lead length 25.0 mm ± 2.0 mm		BFC2 338 14 ...
	Taped on reel ⁽¹⁾	H = 18.5 mm; for P ₀ = 12.7 mm; reel diameter = 500 mm		BFC2 338 17 ...
TYPE	PACKAGING	ALTERNATIVE C-TOL.	C-TOL.	ON REQUEST
338 1 X1	Loose in box	Lead length 3.5 mm ± 0.3 mm	± 10 %	See tables for detail
			± 5 %	
		Lead length 5.0 mm ± 1.0 mm	± 10 %	
		± 5 %		
	Lead length 25.0 mm ± 2.0 mm	± 10 %		
		± 5 %		
	Taped on reel ⁽¹⁾	H = 18.5 mm; P ₀ = 12.7 mm; reel diameter = 500 mm	± 10 %	
			± 5 %	

Note

⁽¹⁾ For detailed tape specification refer to packaging information: www.vishay.com/doc?28139

SPECIFIC REFERENCE DATA		
DESCRIPTION	VALUE	
Rated AC voltage (U _{RAC})	440 V	
Permissible DC voltage (U _{RDC})	1000 V	
Tangent of loss angle:	at 1 kHz	at 10 kHz
C ≤ 470 nF	≤ 10 x 10 ⁻⁴	≤ 20 x 10 ⁻⁴
C > 470 nF	≤ 20 x 10 ⁻⁴	≤ 70 x 10 ⁻⁴
Rated voltage pulse slope (dU/dt) _R at 615 V _{DC}		
Pitch = 15 mm	250 V/μs	
Pitch = 22.5 mm	150 V/μs	
Pitch = 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) ⁽¹⁾ , rise time ≤ 1000 V/s	3400 V, 1 min	
Withstanding (AC) voltage between leads and case	2380 V, 1 min	
Maximum application temperature	105 °C	

Note

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



ELECTRICAL DATA AND ORDERING INFORMATION										
U _{RAC}	CAP. (μF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 338 1XXXX AND PACKAGING						
				LOOSE IN BOX					TAPED REEL ⁽¹⁾⁽²⁾	
				SHORT LEADS			LONG LEADS		Ø = 500 mm	
				l _t = 3.5 mm ± 0.3 mm	l _t = 5.0 mm ± 1.0 mm	SPQ	l _t = 25.0 mm ± 2.0 mm	SPQ	H = 18.5 mm; P ₀ = 12.7 mm	SPQ
PITCH = 15.0 mm ± 0.4 mm; d_t = 0.60 mm ± 0.06 mm; C-tol. = ± 20 %										
0.010				10103	12103		14103		17103	
0.012				10123	12123		14123		17123	
0.015	5.0 x 11.0 x 17.5	1.0		10153	12153	1000	14153	1000	17153	1100
0.018				10183	12183		14183		17183	
0.022				10223	12223		14223		17223	
0.027	6.0 x 12.0 x 17.5	1.4		10273	12273	1000	14273	1000	17273	900
0.033				10333	12333		14333		17333	
PITCH = 15.0 mm ± 0.4 mm; d_t = 0.80 mm ± 0.08 mm; C-tol. = ± 20 %										
0.039	7.0 x 13.5 x 17.5	1.8		10393	12393	750	14393	500	17393	800
0.047				10473	12473		14473		17473	
0.056	8.5 x 15.0 x 17.5	2.4		10563	12563	750	14563	500	17563	650
0.068				10683	12683		14683		17683	
0.082	10.0 x 16.5 x 17.5	3.0		10823	12823	500	14823	450	17823	600
0.10				10104	12104		14104		17104	
PITCH = 22.5 mm ± 0.4 mm; d_t = 0.80 mm ± 0.08 mm; C-tol. = ± 20 %										
0.12	8.5 x 18.0 x 26.0	3.8		10124	12124	200	14124	250	17124	450
0.15				10154	12154		14154		17154	
0.18	10.0 x 19.5 x 26.0	6.8		10184	12184	200	14184	200	17184	350
0.22				10224	12224		14224		17224	
PITCH = 27.5 mm ± 0.4 mm; d_t = 0.80 mm ± 0.08 mm; C-tol. = ± 20 %										
440	0.27	11.0 x 21.0 x 31.0	7.4	10274	12274	100	14274	125		
	0.33	13.0 x 23.0 x 31.0	9.2	10334	12334	100	14334	125		
	0.39	15.0 x 25.0 x 31.5	12.3	10394	12394	100	14394	125		
	0.47			10474	12474		14474			
	0.56	18.0 x 28.0 x 31.5	16.1	10564	12564	100	14564	100		
	0.68			10684	12684		14684			
	0.82	21.0 x 31.0 x 31.0	20.3	10824	12824	50	14824	75		
	1.00			10105	12105		14105			
PITCH = 15.0 mm ± 0.4 mm; d_t = 0.60 mm ± 0.06 mm; C-tol. = ± 10 %										
	0.010	5.0 x 11.0 x 17.5	1.0	18114	18314		18514		18914	
	0.012			18115	18315		18515		18915	
	0.015			18116	18316	1000	18516	1000	18916	1100
	0.018			18117	18317		18517		18917	
	0.022	6.0 x 12.0 x 17.5	1.4	18118	18318	1000	18518	1000	18918	900
	0.027			18119	18319		18519		18919	
PITCH = 15.0 mm ± 0.4 mm; d_t = 0.80 mm ± 0.08 mm; C-tol. = ± 10 %										
	0.033	7.0 x 13.5 x 17.5	1.8	18121	18321	750	18521	500	18921	800
	0.039			18122	18322		18522		18922	
	0.047	8.5 x 15.0 x 17.5	2.4	18123	18323	750	18523	500	18923	650
	0.056			18124	18324		18524		18924	
	0.068	10.0 x 16.5 x 17.5	3.0	18125	18325	500	18525	450	18925	600
	0.082			18126	18326		18526		18926	



ELECTRICAL DATA AND ORDERING INFORMATION												
U _{RAC}	CAP. (μF)	DIMENSIONS w x h x l (mm)	MASS (g) ⁽³⁾	CATALOG NUMBER BFC2 338 1XXXX AND PACKAGING								
				LOOSE IN BOX					TAPED REEL ⁽¹⁾⁽²⁾			
				SHORT LEADS			LONG LEADS		Ø = 500 mm			
				l _t = 3.5 mm ± 0.3 mm	l _t = 5.0 mm ± 1.0 mm	SPQ	l _t = 25.0 mm ± 2.0 mm	SPQ	H = 18.5 mm; P ₀ = 12.7 mm	SPQ		
PITCH = 22.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; C-tol. = ± 10 %												
0.10	7.0 x 16.5 x 26.0	2.9	18127	18327	200	18527	250	18927	550			
0.12	8.5 x 18.0 x 26.0	3.8	18128	18328	200	18528	250	18928	450			
0.15			18129	18329		18529		18929				
0.18	10.0 x 19.5 x 26.0	6.8	18131	18331	200	18531	200	18931	350			
PITCH = 27.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; C-tol. = ± 10 %												
0.22	11.0 x 21.0 x 31.0	7.4	18132	18332	100	18532	125	-	-			
0.27			18133	18333		18533						
0.33	13.0 x 23.0 x 31.0	9.2	18134	18334	100	18534	125					
0.39	15.0 x 25.0 x 31.0	12.3	18135	18335	100	18535	125					
0.47			18136	18336		18536						
0.56	18.0 x 28.0 x 31.0	16.1	18137	18337	100	18537	100					
0.68			18138	18338		18538						
0.82	21.0 x 31.0 x 31.0	20.3	18139	18339	50	18539	75					
PITCH = 15.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm; C-tol. = ± 5 %												
0.010	5.0 x 11.0 x 17.5	1.0	18214	18414	1000	18614	1000			18934	1100	
0.012			18215	18415		18615		18935				
0.015			18216	18416		18616		18936				
0.018			18217	18417		18617		18937				
0.022	6.0 x 12.0 x 17.5	1.4	18218	18418	1000	18618	1000	18938	900			
0.027			18219	18419		18619		18939				
PITCH = 15.0 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; C-tol. = ± 5 %												
0.033	7.0 x 13.5 x 17.5	1.8	18221	18421	750	18621	500	18941	800			
0.039			18222	18422		18622		18942				
0.047	8.5 x 15.0 x 17.5	2.4	18223	18423	750	18623	500	18943	650			
0.056			18224	18424		18624		18944				
0.068	10.0 x 16.5 x 17.5	3.0	18225	18425	500	18625	450	18945	600			
0.082			18226	18426		18626		18946				
PITCH = 22.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; C-tol. = ± 5 %												
0.10	8.5 x 18.0 x 26.0	3.8	18227	18427	200	18627	250	18947	450			
0.12			18228	18428		18628		18948				
0.15	10.0 x 19.5 x 26.0	6.8	18229	18429	200	18629	200	18949	350			
0.18			18231	18431		18631		18951				
PITCH = 27.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; C-tol. = ± 5 %												
0.22	11.0 x 21.0 x 31.0	7.4	18232	18432	100	18632	125	-	-			
0.27	13.0 x 23.0 x 31.0	9.2	18233	18433	100	18633	125					
0.33			18234	18434		18634						
0.39	15.0 x 25.0 x 31.5	12.3	18235	18435	100	18635	125					
0.47			18236	18436		18636						
0.56	18.0 x 28.0 x 31.5	16.1	18237	18437	100	18637	100					
0.68			18238	18438		18638						
0.82	21.0 x 31.0 x 31.0	20.3	18239	18439	50	18639	75					



Notes

- SPQ = Standard Packing Quantity

(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

APPROVALS			
SAFETY APPROVALS X1	VOLTAGE	VALUE	FILE NUMBERS
EN 60384-14 (ENEC) (= IEC 60384-14 ed-3)	440 V _{AC}	10 nF to 1 μF	FI 2008060 A1
UL 60384-14	440 V _{AC}	10 nF to 1 μF	E354331
CSA E384-14	440 V _{AC}	10 nF to 1 μF	E354331
CB-test certificate	440 V _{AC}	10 nF to 1 μF	FI 5256 A1
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 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

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:

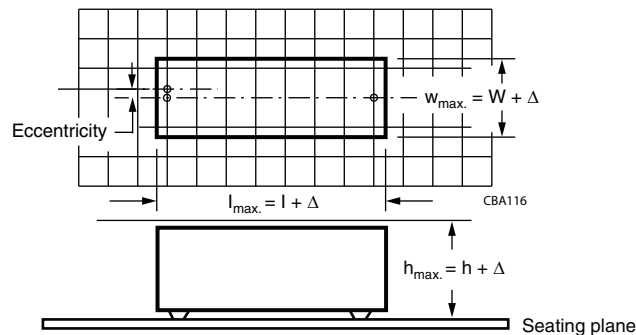
- For pitches ≤ 15 mm capacitors shall be mechanically fixed by the leads
- For longer pitches the capacitors shall be mounted in the same way and the body clamped

Space Requirements on Printed Circuit Board

The maximum space for length ($l_{max.}$), 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 ≤ 15 mm, $\Delta w = \Delta l = 0.3$ mm; $\Delta h = 0.1$ mm

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



SOLDERING

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

“Soldering Guidelines for Film Capacitors”: www.vishay.com/doc?28171

Storage Temperature

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

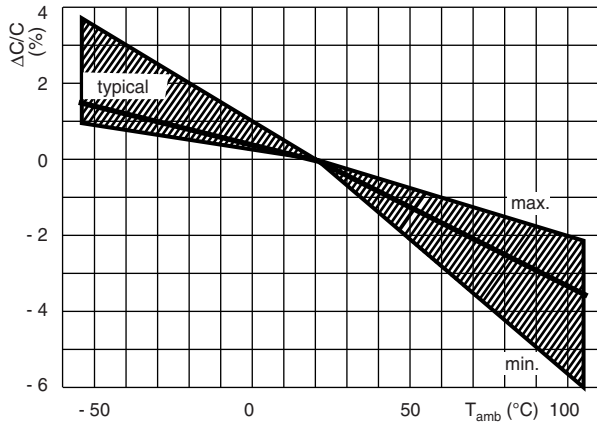
Ratings and Characteristics Reference Conditions

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

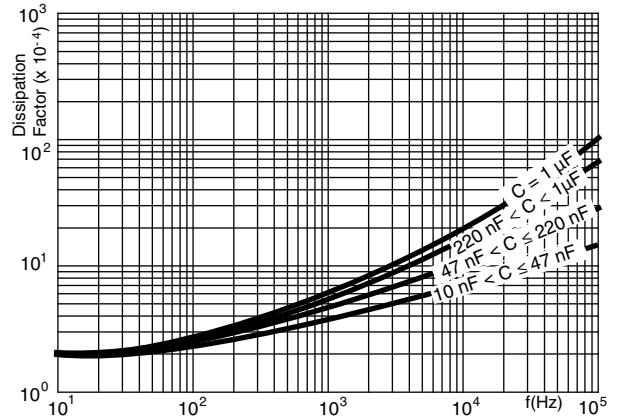
For reference testing, a conditioning period shall be applied over 96 h ± 4 h by heating the products in a circulating air oven at the rated temperature and a relative humidity not exceeding 20 %.



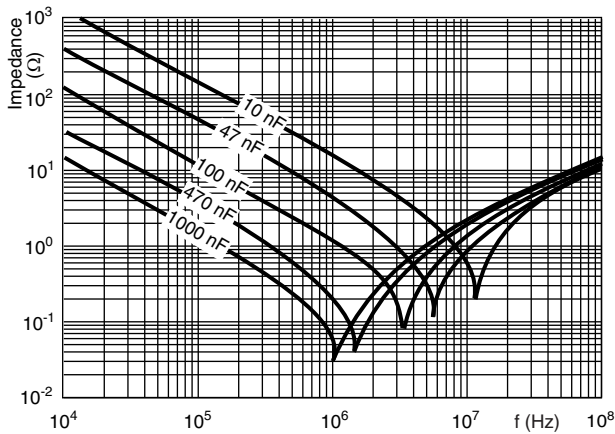
CHARACTERISTICS



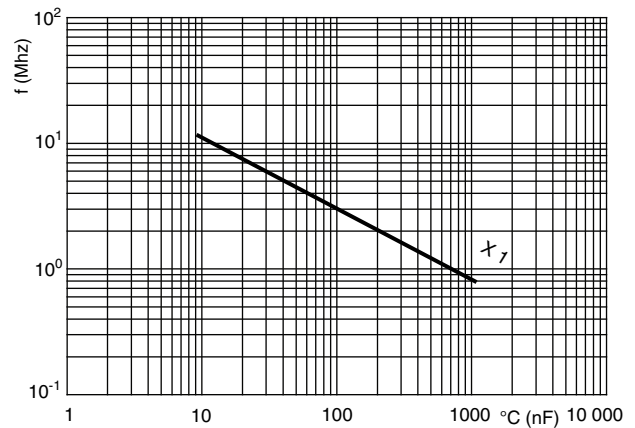
Capacitance as a function of ambient temperature (typical curve)



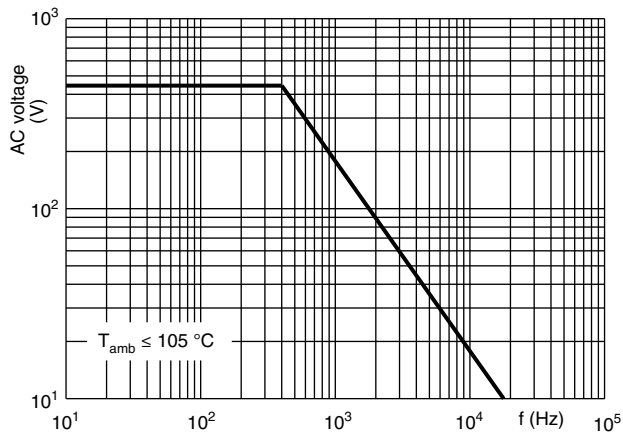
Tangent of loss angle as a function of frequency (typical curve)



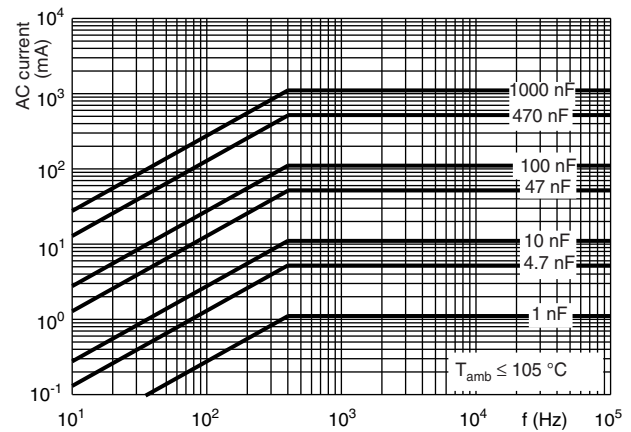
Impedance as a function of frequency (typical curve)



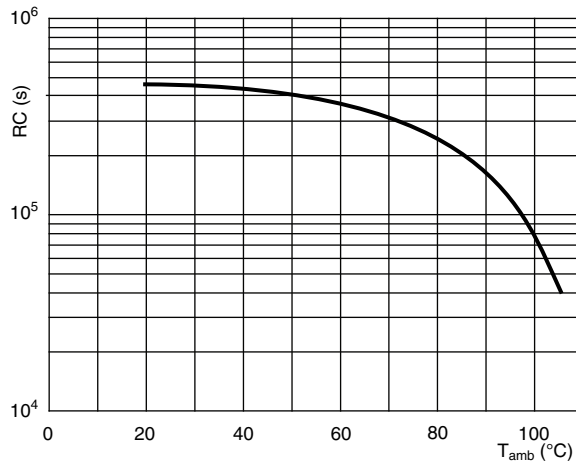
Resonant frequency as a function of capacitance (typical curve)



Max. RMS voltage as a function of frequency



Max. RMS current as a function of frequency



Insulation resistance as a function of ambient temperature

APPLICATION NOTES

- For X1 electromagnetic interference suppression in **standard across the line applications** (50 Hz/60 Hz) with a maximum mains voltage of 440 V_{AC}.
- For series impedance applications we refer to application note: 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: rfi@vishay.com
- These capacitors are not intended for continuous pulse applications. For these situations, capacitors of the AC and pulse programs 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 615 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-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)		As specified in chapters “General data” of this specification
Initial measurements	Capacitance Tangent of loss angle at 10 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	



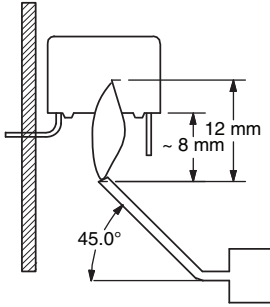
GROUP C INSPECTION REQUIREMENTS		
SUB-CLAUSE NUMBER AND TEST	CONDITIONS	PERFORMANCE REQUIREMENTS
SUB-GROUP C1A PART OF SAMPLE OF SUB-GROUP C1		
4.19 Component solvent resistance	Isopropylalcohol at room temperature Method: 2 Immersion time: 5 min ± 0.5 min Recovery time: Min. 1 h, max. 2 h	
4.4.2 Final measurements	Visual examination Capacitance Tangent of loss angle Insulation resistance	No visible damage Legible marking $ \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
SUB-GROUP C1B PART OF SAMPLE OF SUB-GROUP C1		
Initial measurements	Capacitance Tangent of loss angle at 10 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	$\theta A = -55\text{ }^\circ\text{C}$ $\theta B = +105\text{ }^\circ\text{C}$ 5 cycles Duration $t = 30\text{ min}$	
4.6.1 Inspection 4.7 Vibration	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 ² (whichever is less severe) Total duration: 6 h	No visible damage
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 ² 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



GROUP C INSPECTION REQUIREMENTS		
SUB-CLAUSE NUMBER AND TEST	CONDITIONS	PERFORMANCE REQUIREMENTS
SUB-GROUP C1 COMBINED SAMPLE OF SPECIMENS OF SUB-GROUPS C1A AND C1B		
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		
4.11.6 Final measurements	Visual examination Capacitance Tangent of loss angle Voltage proof 1900 V _{DC} ; 1 min between terminations Insulation resistance	No visible damage Legible marking ΔC/C ≤ 5 % of the value measured in 4.11.1. Increase of tan δ ≤ 0.008 Compared to values measured in 4.11.1. No permanent breakdown or flash-over ≥ 50 % of values specified in section “Insulation Resistance” of this specification
SUB-GROUP C2		
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 Capacitance Tangent of loss angle Voltage proof 1900 V _{DC} ; 1 min between terminations Insulation resistance	No visible damage Legible marking ΔC/C ≤ 5 % of the value measured in 4.12.1. Increase of tan δ ≤ 0.008 Compared to values measured in 4.12.1. No permanent breakdown or flash-over ≥ 50 % of values specified in section “Insulation Resistance” of this specification



GROUP C INSPECTION REQUIREMENTS		
SUB-CLAUSE NUMBER AND TEST	CONDITIONS	PERFORMANCE REQUIREMENTS
SUB-GROUP C3		
4.13.1 Initial measurements	Capacitance Tangent of loss angle at 10 kHz	
4.13 Impulse voltage	3 successive impulses, full wave, peak voltage: X1: 4 kV 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 via resistor of 47 Ω ± 5 %	
4.14.7 Final measurements	Visual examination	No visible damage Legible marking
	Capacitance	ΔC/C ≤ 10 % compared to values measured in 4.13.1.
	Tangent of loss angle	Increase of tan δ ≤ 0.008 Compared to values measured in 4.13.1.
	Voltage proof 1900 V _{DC} ; 1 min between terminations 2380 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 615 V _{DC} Discharge resistance: $R = \frac{615 V_{DC}}{1.5 \times C (dU/dt)}$	
4.15.1 Initial measurements	Capacitance Tangent of loss angle at 10 kHz	
4.15.3 Final measurements	Capacitance	ΔC/C ≤ 10 % compared to values measured in 4.15.1.
	Tangent of loss angle	Increase of tan δ ≤ 0.008 Compared to values measured in 4.15.1.
	Insulation resistance	≥ 50 % of values specified in section "Insulation Resistance" of this specification
SUB-GROUP C5		
4.16 Radio frequency characteristic	Resonance frequency	≥ 0.9 times value as specified in section "Resonant Frequency" of this specification

GROUP C INSPECTION REQUIREMENTS		
SUB-CLAUSE NUMBER AND TEST	CONDITIONS	PERFORMANCE REQUIREMENTS
SUB-GROUP C6		
4.17 Passive flammability Class B	Bore of gas jet: \varnothing 0.5 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 4 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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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- 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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