

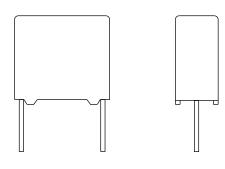
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RoHS

COMPLIANT

Vishay BCcomponents

Interference Suppression Film Capacitors MKP Radial Potted Type



FEATURES

- 10 mm to 15 mm lead pitch
- Supplied loose in box, taped on reel
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

APPLICATIONS

Y2 class

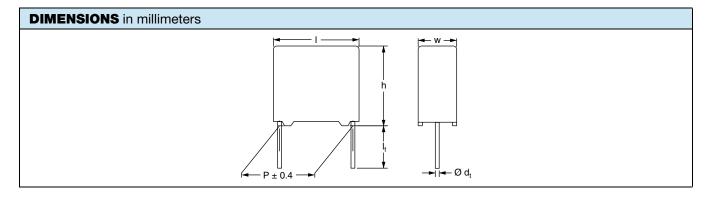
For Y2 electromagnetic interference suppression between line and ground applications (50 Hz / 60 Hz) with a maximum mains voltage of 300 $V_{AC}.\,$

For application limitations refer to section "Application Notes".

QUICK REFERENCE DATA				
Capacitance range (E12 series)	0.001 μ F to 0.047 μ F (preferred values according to E6)			
Capacitance tolerance	± 20 %; ± 10 %			
Climatic testing class according to EN60068-1 $55/105/56/C$ for product volumes $\leq 1750 \text{ mm}^3$ $55/105/56/B$ for product volumes $> 1750 \text{ mm}^3$				
Rated AC voltage	300 V _{AC} ; 50 Hz to 60 Hz			
Permissible DC voltage	1000 V _{DC}			
Maximum application temperature 105 °C				
IEC 60384-14 ed-4 (2013) edition and EN 60384-14 Reference standards IEC 60065 requires, pass. flamm. class B for volumes > 1750 mr UL 60384-14				
Dielectric	Polypropylene film			
Electrodes	Metallized film			
Construction	Series construction (for > 10 mm pitch)			
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; year and week			

Note

For more detailed data and test requirements, contact: <u>rfi@vishay.com</u>



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MKP336 6 Y2

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COMPOSITION OF CATALOG NUMBER

ТҮР	ΕA	ND PITCHE	S						Γ	MULTIP	LIER
336 (6	10.0 mn	n				CAPAC		CE	(nF)
Y2		15.0 mn	n				(nume			0.1	2
							(nume	incany	/)	1	3
									Example:		
									$103 = 10 \times 1 = 10$	0 nF	
			BFC2	336	6	Х	XX	Х			
								~			
			2222 ^(*)	336	6	Х	XX	Х			
			(*) Old ordering	code					-		
											_

TYPE	PACKAGING	LEAD CONFIGURATION	PREFERRED TYPES	S	
336 6	Lead length $3.5 \text{ mm} + 1 \text{ mm/-} 0.5 \text{ mm}$ (pitch = 10 mm) orLoose in box $3.5 \text{ mm} \pm 0.3 \text{ mm}$ (pitch = 15 mm)		± 20 %	BFC2 336 60	
Y2	Y2	Lead length 25.0 mm ± 2.0 mm		BFC2 336 66	
TYPE	PACKAGING	LEAD CONFIGURATION	C-TOL.	ON REQUEST	
336 6	Loose in box	Lead length 3.5 mm + 1 mm/- 0.5 mm (pitch = 10 mm) or 3.5 mm ± 0.3 mm (pitch = 15 mm)	± 10 %	BFC2 336 61	
		Lead length 25.0 mm ± 2.0 mm		BFC2 336 67	
Y2	Taped on reel ⁽¹⁾	H = 18.5 mm; P ₀ = 12.7 mm;	± 20 %	BFC2 336 63	
	Taped of Teel V	reel diameter 500 mm	± 10 %	BFC2 336 64	

Note

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

SPECIFIC REFERENCE DATA						
DESCRIPTION	VALUE					
Rated AC voltage (U _{RAC})	300 V					
Permissible DC voltage (U _{RDC})	1000 V					
Tangant of loss angle	at 10 kHz					
Tangent of loss angle	≤ 20 x 10 ⁻⁴					
Rated voltage pulse slope (dU/dt) _R at 420 V_{DC}	200 V/µs					
R between leads, for C \leq 0.33 μF at 100 V; 1 min	> 15 000 MΩ					
R between leads and case; 100 V; 1 min	> 30 000 MΩ					
Withstanding (DC) voltage (cut off current 10 mA) $^{(1)}$; rise time \leq 1000 V/s	3400 V; 1 min					
Withstanding (AC) voltage between leads and case	2100 V; 1 min					

Note

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



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CAΡ. (μF)	DIMENSIONS w x h x l (mm)	MASS		G NUMB	ER BFC2 336 6 AND	PACK									
	w x h x l	MASS	10				DEEI								
			-	OSE IN BO	XC		REEL (500 mm) ⁽¹⁾⁽²⁾								
		(g) ⁽³⁾	l _t = 3.5 mm + 1 mm/- 0.5 mm (10 mm) OR 3.5 mm ± 0.3 mm (= 15 mm)		l _t = 25.0 mm ± 2.0 r	nm	H = 18.5 mm; P ₀ = 12.7 mm								
			LAST 5 DIGITS OF CATALOG NUMBER	SPQ	LAST 5 DIGITS OF CATALOG NUMBER	SPQ	LAST 5 DIGITS OF CATALOG NUMBER	SPQ							
PITCH = 10.0 mm ± 0.4 mm; d _t = 0.6 mm ± 0.06 mm; C-TOL. = ± 20 %															
0.0010			60102	_	66102		63102								
0.0015	40 x 100 x 12 5	0.6	60152		66152	1250	63152	1400							
0.0022	4.0 X 10.0 X 12.0	0.0	60222	1000	66222	1200	63222	1400							
0.0033			60332	1000	66332		63332								
0.0047	50 x 11 0 x 12 5	0.82	60472		66472	1000	63472	1100							
0.0068	5.6 X 11.6 X 12.5		60682		66682		63682	1100							
		PIT	CH = 15.0 mm ± 0.4 mm; d _t = 0).6 mm ± (0.06 mm; C-TOL. = ± 20	0 %									
0.0068	50 x 11 0 x 17 5	10	69005		69009		69006	1100							
0.010	5.6 X 11.6 X 17.5	1.0	60103	1000	66103	1000	63103	1100							
0.015	6.0 x 12.0 x 17.5	1.4	60153		66153		63153	900							
		PIT	CH = 15.0 mm ± 0.4 mm; d _t = 0).8 mm ± (0.08 mm; C-TOL. = ± 20	0 %									
0.022	7.0 x 13.5 x 17.5	1.8	60223	750	66223	500	63223	800							
0.033	8.5 x 15.0 x 17.5	2.4	60333	730	66333	500	63333	650							
0.047	10.0 x 16.5 x 17.5	3.0	60473	500	66473	450	63473	600							
		PIT	CH = 10.0 mm ± 0.4 mm; d _t = 0).6 mm ± (0.06 mm; C-TOL. = ± 10	0 %									
0.0010			61102		67102		64102								
0.0012			61122		67122		64122								
0.0015			61152		67152		64152								
0.0018	4 0 10 0 10 5	4 0 y 10 0 y 10 F	4 0 y 10 0 y 10 F	4 0 y 10 0 y 10 F	4 0 x 10 0 x 10 5	4 0 y 10 0 y 10 5	4 0 v 10 0 v 12 5	4 0 x 10 0 x 12 5	40×100×125 06	61182	1000	67182	1050	64182	1400
0.0022	4.0 X 10.0 X 12.5	0.6	61222	1000	67222	1250	64222	1400							
0.0027			61272	1	67272		64272								
0.0033			61332		67332		64332								
0.0039			61392		67392		64392								
0.0047	5 0 11 0 10 F		61472	1000	67472	1000	64472	1100							
0.0056	5.0 x 11.0 x 12.5	1.1	61562	1000	67562	1000	64562	1100							
E		PITC	CH = 15.0 mm ± 0.4 mm; d _t = 0	.80 mm ±	0.08 mm; C-TOL. = ± 1	0 %		<u> </u>							
0.0056			69001		69007		69003								
0.0068			61682		67682		64682								
0.0082	5.0 x 11.0 x 17.5	1.0	61822		67822		64822	1100							
0.010			61103	1000	67103	1000	64103								
0.012		61123 6712	67123	-	64123										
0.015	0.0 10.0 17.5		61153	1	67153		61153								
0.018	6.0 x 12.0 x 17.5 1.4 61183	67183	-	64183	900										
		PITC	CH = 15.0 mm ± 0.4 mm; d _t = 0	.80 mm ±	0.08 mm; C-TOL. = ± 1	0 %									
0.022	7.0 x 13.5 x 17.5	1.8	61223		67223		64223	800							
0.027			61273	750	67273	500	64273								
0.033	8.5 x 15.0 x 17.5	2.4	61333	1	67333	1	64333	650							
0.039			61393		67393	455	61393								
0.047	10.0 x 16.5 x 17.5	3.0	61473	500	67473	450	64473	600							
	0.0015 0.0022 0.0033 0.0047 0.0068 0.0015 0.0068 0.0010 0.0012 0.0015 0.0012 0.0015 0.0016 0.0017 0.0018 0.0015 0.0015 0.0016 0.0017 0.0018 0.0022 0.0015 0.0015 0.0021 0.0056 0.0056 0.0056 0.0012 0.0056 0.0056 0.0012 0.0056 0.0056 0.0057 0.0056 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0022 0.0022 0.0022 0.0022 0.0022 0.	$\begin{array}{c c} 0.0015\\ 0.0022\\ 0.0033\\ 0.0047\\ 0.0068\\ 0.00068\\ 0.0015\\ 0.015\\ 0.015\\ 0.015\\ 0.015\\ 0.022\\ 7.0 \times 13.5 \times 17.5\\ 0.033\\ 8.5 \times 15.0 \times 17.5\\ 0.033\\ 8.5 \times 15.0 \times 17.5\\ 0.0010\\ 0.0012\\ 0.0012\\ 0.0012\\ 0.0015\\ 0.0033\\ 0.0022\\ 0.0027\\ 0.0033\\ 0.0039\\ 0.0047\\ 0.0056\\ 0.0068\\ 0.0056\\ 0.0068\\ 0.0056\\ 0.0068\\ 0.0056\\ 0.0068\\ 0.0056\\ 0.0068\\ 0.0056\\ 0.0068\\ 0.0056\\ 0.0012\\ 0.0012\\ 0.0015\\ 0.0012\\ 0.0015\\ 0.0012\\ 0.0015\\ 0.0012\\ 0.0056\\ 0.0068\\ 0.0022\\ 7.0 \times 11.0 \times 12.5\\ 0.0010\\ 0.012\\ 0.0012\\ $	$\begin{array}{c c} 0.0015 \\ 0.0022 \\ 0.0033 \\ \hline 0.0047 \\ 0.0068 \\ \hline 0.0068 \\ \hline 0.0068 \\ \hline 0.0010 \\ \hline 0.0068 \\ \hline 0.0010 \\ \hline 0.0015 \\ \hline 0.0022 \\ \hline 7.0 \times 13.5 \times 17.5 \\ \hline 1.0 \\ \hline 0.0010 \\ \hline 0.0012 \\ \hline 0.0013 \\ \hline 0.0012 \\ \hline 0.0012 \\ \hline 0.0012 \\ \hline 0.0012 \\ \hline 0.0013 \\ \hline 0.0012 \\ \hline $	$ \begin{array}{c c c c c c c c } \hline 0.0015 \\ 0.0022 \\ 0.0033 \\ \hline & & & & & & & & & & & & & & & & & &$	$\begin{array}{c c c c c c c c } \hline 0.0015 \\ \hline 0.0022 \\ \hline 0.0033 \\ \hline 0.0047 \\ \hline 0.0068 \\ \hline 0.001 \\ \hline 0.0015 \\ \hline 0.002 \\ \hline 0.001 \\ \hline 0.001 \\ \hline 0.001 \\ \hline 0.002 \\ \hline 0.002 \\ \hline 0.002 \\ \hline 0.002 \\ \hline 0.001 \\ \hline 0.002 \\ \hline 0.001 \\ \hline 0.001 \\ \hline 0.001 \\ \hline 0.002 \\ \hline 0.001 \\ \hline 0.002 \\ \hline 0.0$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	0.0015 0.0022 4.0 x 10.0 x 12.5 0.6 60152 60332 1000 66152 66222 1250 0.0047 0.0068 5.0 x 11.0 x 12.5 0.82 60472 60682 1000 66472 66682 1000 0.0068 5.0 x 11.0 x 17.5 1.0 69005 60103 1000 69009 66103 1000 66153 1000 0.015 6.0 x 12.0 x 17.5 1.4 60153 66472 500 66153 1000 66153 1000 66153 1000 66153 500 66473 500 66473 500 66473 500 66473 450 500 66153 500 66473 450 500 66473 450 500 66473 450 500 66473 450 500 661152 500 661152 500 661152 500 661152 500 661152 500 661152 500 661152 500 661152 500 661152 500 661152 500 500 661152 500 661152	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $							

Notes

SPQ = Standard packing quantity

(1) H = in-tape height; P₀ = sprocket hole distance; for detailed specifications refer to packaging information: <u>www.vishay.com/doc?28139</u>

⁽²⁾ Reel diameter = 365 mm is available on request

⁽³⁾ Weight for short lead product only

3 For technical questions, contact: rfi@vishay.com



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APPROVALS							
SAFETY APPROVALS Y2	VOLTAGE	VALUE	FILE NUMBERS	LINKS			
EN 60384-14 (ENEC) (= IEC 60384-14 ed-4 (2013))	300 V _{AC}	1 nF to 47 nF	ENEC16/FI/19/10005	www.vishay.com/doc?28204			
UL 60384-14	300 V _{AC}	1 nF to 47 nF	E354331	www.vishay.com/doc?28189			
CSA-E384-14	300 V _{AC}	1 nF to 47 nF	E354331	www.visitay.com/doc {20109			
CB-test-certificate	300 V _{AC}	1 nF to 47 nF	FI-39831	www.vishay.com/doc?28203			
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: 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:

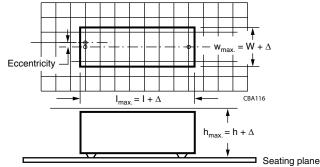
· The capacitors shall be mechanically fixed by the leads

Space Requirements on Printed Circuit Board

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 \leq 15 mm, $\Delta w = \Delta I = 0.3$ 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 CONDITIONS

For general soldering conditions and wave soldering profile, we refer to the application note: "Soldering Guidelines for Film Capacitors": <u>www.vishay.com/doc?28171</u>

Storage Temperature

 T_{stq} = -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 %.

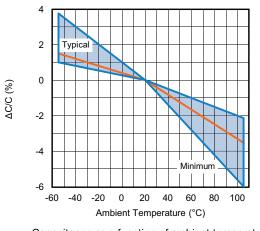
For reference testing, a conditioning period shall be applied over 96 h \pm 4 h by heating the products in a circulating air oven at the rated temperature and a relative humidity not exceeding 20 %.

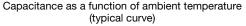


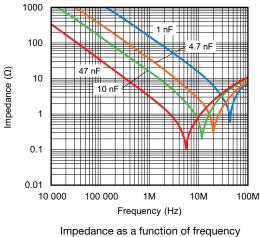
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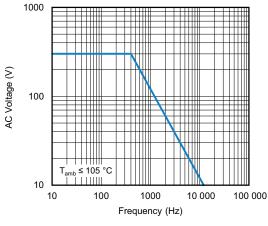
CHARACTERISTICS



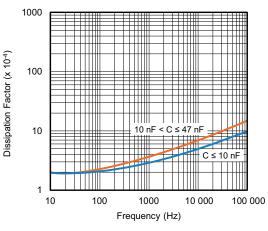




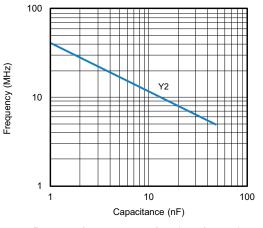
(typical curve)



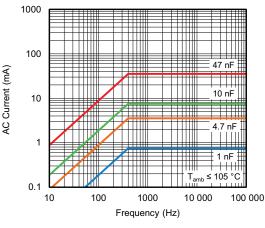
Max. RMS voltage as a function of frequency



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



Resonant frequency as a function of capacitance (typical curve)



Max. RMS current as a function of frequency

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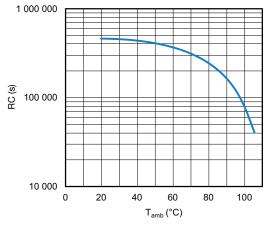
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Insulation resistance as a function of ambient temperature (typical curve)

APPLICATION NOTES

- For Y2 electromagnetic interference suppression between line and ground (50 Hz / 60 Hz) with a maximum mains voltage of 300 V_{AC} ± 10 % instability
- 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 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 420 V_{DC} and divided by the applied voltage

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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."

GROUP C INSPECTION REQU	IREM	ENTS	
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: 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	$\left \Delta C/C\right \leq 5~\%$ of the value measured initially
		Tangent of loss angle	Increase of tan $\delta \le 0.008$ 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	D		
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		θA = - 55 °C θB = + 105 °C 5 cycles	
4.6.1 Inspection		Duration t = 30 min	

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GROUP C INSPECTION REQUIREMENTS							
SUB-CLAUSE NUMBER AND TEST	D OR ND	CONDITIONS	PERFORMANCE REQUIREMENTS				
SUB-GROUP C1B PART OF SAMPLE OF SUB-GROUP C1	D						
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	No visible damage				
		Capacitance	$ \Delta C/C \le 5$ % of the value measured initially				
		Tangent of loss angle	Increase of tan δ : ≤ 0.008 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 C1B	D						
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							



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GROUP C INSPECTION REQUIREMENTS							
SUB-CLAUSE NUMBER AND TEST OR C ND		CONDITIONS	PERFORMANCE REQUIREMENTS				
SUB-GROUP C1 COMBINED SAMPLE OF SPECIMENS OF SUB-GROUPS C1A AND C1B	D						
4.11.6 Final measurements		Visual examination	No visible damage Legible marking				
		Capacitance	$ \Delta C/C \le 5$ % of the value measured in 4.11.1.				
		Tangent of loss angle	Increase of tan δ : ≤ 0.008 Compared to values measured in 4.11.1.				
		Voltage proof 2250 V _{DC} ; 1 min between term.	No permanent breakdown or flash-over				
		Insulation resistance	≥ 50 % of values specified in section "Insulation resistance" of this specification				
SUB-GROUP C2	D						
4.12 Damp heat steady state		56 days, 40 °C, 90 % to 95 % RH no load capacitance					
4.12.1 Initial measurements		Capacitance Tangent of loss angle at 10 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 δ : \leq 0.007 Compared to values measured in 4.12.1.				
		Voltage proof 2250 V _{DC} ; 1 min between term.	No permanent breakdown or flash-over				
		Insulation resistance	≥ 50 % of values specified in section "Insulation resistance" of this specification				
SUB-GROUP C3	D						
4.13.1 Initial measurements		Capacitance Tangent of loss angle at 10 kHz					
4.13 Impulse voltage		3 successive impulses, full wave, peak voltage: 5 kV Max. 24 pulses	No selfhealing breakdowns or flashover				
4.14 Endurance		Duration: 1000 h 1.7 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 $\Omega \pm 5$ %					

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9 For technical questions, contact: <u>rfi@vishay.com</u> Document Number: 28115



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GROUP C INSPECTION REQU	GROUP C INSPECTION REQUIREMENTS								
SUB-CLAUSE NUMBER AND TEST	D OR ND	CONDITIONS	PERFORMANCE REQUIREMENTS						
SUB-GROUP C3	D								
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 0.007 Compared to values measured in 4.13.1.						
		Voltage proof 2250 V _{DC} ; 1 min between terminations	No permanent breakdown or flash-over						
		Insulation resistance	\geq 50 % of values specified in section "Insulation resistance" of this specification						
SUB-GROUP C4	D								
4.15 Charge and discharge		10 000 cycles (50 c/s) charge to U _R half sinewave Duration: 5 ms Discharge resistance: $R = \frac{420 V_{DC}}{1.5 \text{ x C}((dU)/(dt))}$ $R_{min.} = 2.2 \Omega$							
4.15.1 Initial measurements		Capacitance Tangent of loss angle at 10 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 Compared to values measured in 4.15.1.						
		Insulation resistance	≥ 50 % of values specified in section "Insulation resistance" of this specification						
SUB-GROUP C5	D								
4.16 Radio frequency characteristic		Resonance frequency	As specified in section "Resonant frequency" of this specification. \pm 10 %						



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GROUP C INSPECTION REQUIREMENTS						
SUB-CLAUSE NUMBER AND TEST	D OR ND	CONDITIONS	PERFORMANCE REQUIREMENTS			
SUB-GROUP C6	D					
4.17 Passive flammability Class B		Bore of gas jet: Ø 0.5 mm Fuel: Butane Test duration for actual volume V in mm ³ : $V \le 250: 10 \text{ s}$ $250 < V \le 500: 20 \text{ s}$ $500 < V \le 1750: 30 \text{ s}$ V > 1750: 60 s One flame application 12 mm 45.0°	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	D					
4.18 Active flammability		20 x 5 kV discharges on the test capacitor connected to $\ensuremath{U_{R}}$	The cheese cloth around the capacitors shall not burn with a flame. No electrical measurements are required.			



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