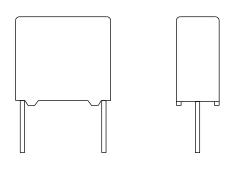


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Interference Suppression Film Capacitors MKP Radial Potted Type



FEATURES

- 10 mm to 15 mm lead pitch
- THB grade IIB compliant (pitch 15 mm): 85 °C, 85 % RH, 500 h at U_{RAC}
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

Y2 class

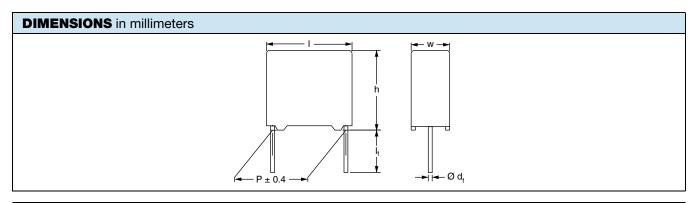
For Y2 electromagnetic interference suppression between line and ground applications (50 Hz / 60 Hz) with a maximum mains voltage of 300 $V_{AC}.$

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	$\begin{array}{c} 55/105/56/C \text{ for product volumes} \leq 1750 \text{ mm}^3 \\ 55/105/56/B \text{ for product volumes} > 1750 \text{ mm}^3 \end{array}$			
Rated AC voltage	300 V _{AC} ; 50 Hz to 60 Hz			
Permissible DC voltage	1000 V _{DC}			
Maximum application temperature	105 °C			
	IEC 60384-14:2013			
	IEC 60384-14:2013 / AMD1:2016			
Reference standards	EN 60384-14:2013 + AMD1:2016			
	IEC 60065 requires, pass. flamm. class B for volumes > 1750 mm ³ 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: rfi@vishay.com



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RoHS COMPLIANT



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COMPOSITION OF CATALOG NUMBER

TYPE	AND PITCHE	ES						MULTI	PLIER
336 6	10.0 mr	n			CAPA		F	(nF	-)
Y2	15.0 mr	n			-	erically		0.1	2
					(กนก	encany	,	1	3
							Example		
							103 = 10 x 1 =		
		BFC2	336	6X	X X X	X			
		2222 ^(*)	336	6X		X			
		(*) Old ordering o	ode						
				L					_

TYPE	PACKAGING	LEAD CONFIGURATION	C-TOL.	PREFERRED TYPES
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) ± 20 %		BFC2 336 60
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 (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 μ F 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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ELE	CTRI	CAL DATA AN	D ORI	DERING CODE									
				CATALO	og numb	ER BFC2 336 6 AND	PAC	AGING					
U _{RAC}	CAP.		MASS	LO		REEL (500 mm) ⁽¹⁾⁽²⁾							
(V)	(μF) (mm)		(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				
			PITC	H = 10.0 mm ± 0.4 mm; d _t = 0).6 mm ±	0.06 mm; C-TOL. = ± 3	20 %						
	0.0010				60102		66102		63102				
	0.0015	10x100x105	4.0 x 10.0 x 12.5	4 0 y 10 0 y 10 5	0.6	60152		66152	1250	63152	1400		
	0.0022	4.0 × 10.0 × 12.3	0.0	60222	1000	66222	1230	63222	1400				
	0.0033			60332	1000	66332		63332					
	0.0047	5.0 x 11.0 x 12.5	0.82	60472		66472	1000	63472	1100				
	0.0068	5.0 X 11.0 X 12.5	0.62	60682		66682	1000	63682	1100				
			PIT	CH = 15.0 mm ± 0.4 mm; d _t = 0).6 mm ± (0.06 mm; C-TOL. = ± 20	0 %						
	0.0068	5.0 x 11.0 x 17.5	1.0	69005		69009		69006	1100				
	0.010	5.0 X 11.0 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		66223		63223	800				
	0.033	8.5 x 15.0 x 17.5	2.4	60333	750	66333	500	63333	650				
	0.047	10.0 x 16.5 x 17.5	3.0	60473	500	66473	450	63473	600				
	0.0			CH = 10.0 mm ± 0.4 mm; d _t = 0									
	0.0010		1	61102		67102		64102					
	0.0012			61122	_	67122	1	64122					
	0.0012	4.0 x 10.0 x 12.5					61152	_	67152	-	64152		
	0.0018								61182	-	67182	•	64182
300	0.0022		0.6	0.6	61222	1000	67222	1250	64222	1400			
	0.0022			61272	-	67272		64272					
	0.0027				-	67332		64332					
						-							
	0.0039					67392		64392					
		5.0 x 11.0 x 12.5 1.1		5.0 x 11.0 x 12.5 1.1		5.0 x 11.0 x 12.5 1.1		61472	1000	67472	1000	64472	1100
	0.0056		DIT	61562	00	67562	0.0/	64562					
	0.0050		PIIC	$H = 15.0 \text{ mm} \pm 0.4 \text{ mm}; d_t = 0$.80 mm ±		0%	00000					
	0.0056			69001	_	69007	-	69003					
	0.0068		10	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	_	67123	-	64123					
	0.015	6.0 x 12.0 x 17.5 1.4 61153	_	67153		61153	900						
	0.018			61183		67183		64183					
			PITC	CH = 15.0 mm ± 0.4 mm; d _t = 0	.80 mm ±		0 %	T					
	0.022	7.0 x 13.5 x 17.5	1.8	61223		67223		64223	800				
	0.027	8.5 x 15.0 x 17.5	2.4	61273	750	67273	500	64273	650				
	0.033	0.0 × 10.0 × 17.0	2.4	61333		67333		64333	000				
	0.039	10.0 x 16.5 x 17.5	3.0	61393	500	67393	450	61393	600				
	0.047	10.0 X 10.0 X 17.5	3.0	61473	500	67473	450	64473	000				

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

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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/21/01065	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?28189			
CB-test-certificate	300 V _{AC}	1 nF to 47 nF	FI-39831/A1	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.vishav.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:

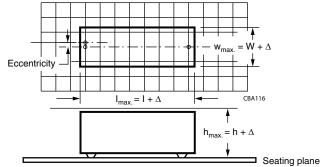
• The capacitors shall be mechanically fixed by the leads

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 %.

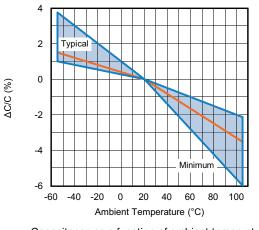
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	For technical questions, contact: rfi@vishay.com

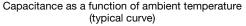


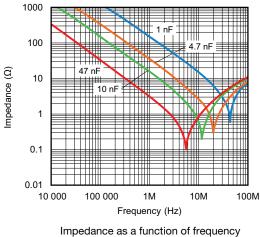
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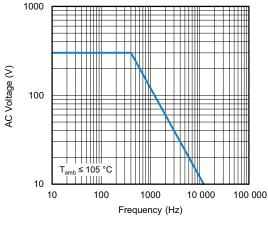
CHARACTERISTICS



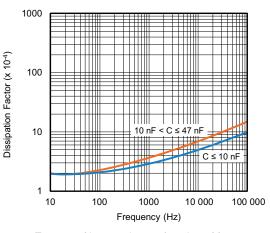




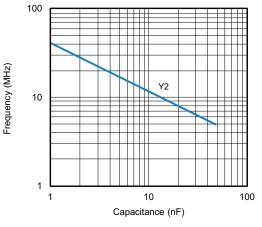
(typical curve)



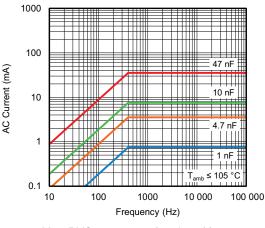
Max. RMS voltage as a function of frequency



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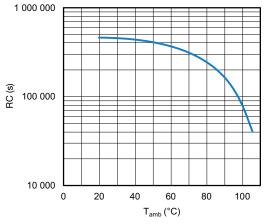
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Insulation resistance as a function of ambient temperature (typical curve)

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	D OR ND	CONDITIONS	PERFORMANCE REQUIREMENTS
SUB-GROUP C1A PART OF SAMPLE OF SUB-GROUP C1	D		
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	$ \Delta C/C \le 5$ % of the value measured initially
		Tangent of loss angle	Increase of tan $\delta \ge 0.008$ 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 REQU	IREMI	ENTS	
SUB-CLAUSE NUMBER AND TEST	D OR 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 : ≤ 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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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 : ≤ 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	≥ 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: $R = \frac{420 V_{DC}}{1.5 \times C((dU)/(dt))}$ $R_{min.} = 2.2 \Omega$					
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	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.
		45.0°	
SUB-GROUP C7	D		
4.18 Active flammability		20 x 5 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.
SUB-GROUP ADD6 (FOR PITCH ≥ 15 mm)	D		
A.6 Damp heat steady state with load		RH: 85 %, temp.: 85 °C Load: 300 V _{AC} , duration: 500 h	
A.6.1 Initial measurements		Capacitance	
		Tangent of loss angle: at 10 kHz	
A.6.2 Final measurements		Visual examination	No visible damage Legible marking
		Capacitance	$ \Delta C/C \leq 10$ % of the value measured in A.6.1
		Tangent of loss angle	Increase of tan $\delta \leq 0.024$ Compared to values measured in A.6.1 No permanent breakdown or flash-over
		Insulation resistance	≥ 50 % of values specified in section "Insulation Resistance" of this specification

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