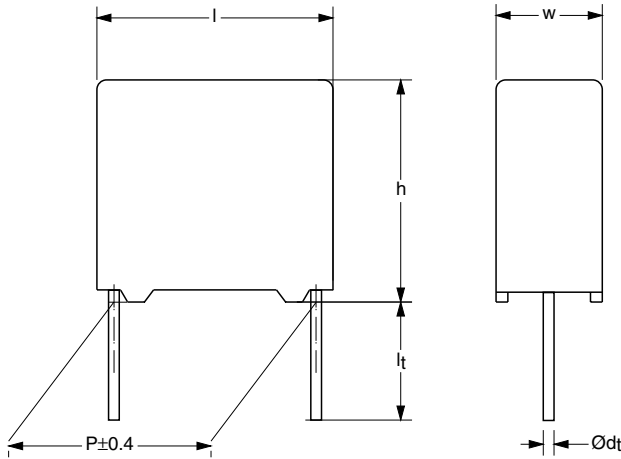


Interference Suppression Film Capacitors MKP Radial Potted Type



Dimensions in mm

APPLICATIONS

Y2 class

For Y2 electromagnetic interference suppression in across the line applications (50/60 Hz) with a maximum mains voltage of 250 Vac.

These capacitors are not intended for continuous pulse applications. For these situations, capacitors of the AC and Pulse program must be used.

REFERENCE STANDARDS

"IEC 60384-14 2nd edition and EN 132400"

"IEC 60065, pass. flamm. class B"

250 V: CSA-C22.2 No 1; UL1414; ENEC; UL1283

MARKING

C-value; tolerance; rated voltage; sub-class; manufacturer's type designation; code for dielectric material; manufacturer location; year and week

DIELECTRIC

Polypropylene film

ELECTRODES

Metallized film

ENCAPSULATION

Plastic case, epoxy resin sealed, flame retardant UL-class 94 V-0

FEATURES

10 to 15 mm lead pitch. Supplied loose in box, taped on reel

Lead (Pb)-free product

RoHS-compliant product

CONSTRUCTION

Mono construction

RATED VOLTAGE

AC 250 V; 50 to 60 Hz

PERMISSIBLE DC VOLTAGE

DC 630 V

CLIMATIC TESTING CLASS ACC. TO EN 60068-1

55/100/21/B

CAPACITANCE RANGE (E12 SERIES)

E12 series 0.001 to 0.047 μ F
Preferred values acc. to E6

CAPACITANCE TOLERANCE

$\pm 20\%$; $\pm 10\%$; $\pm 5\%$

LEADS

Tinned wire

RATED TEMPERATURE

100 °C

MAXIMUM APPLICATION TEMPERATURE

100 °C

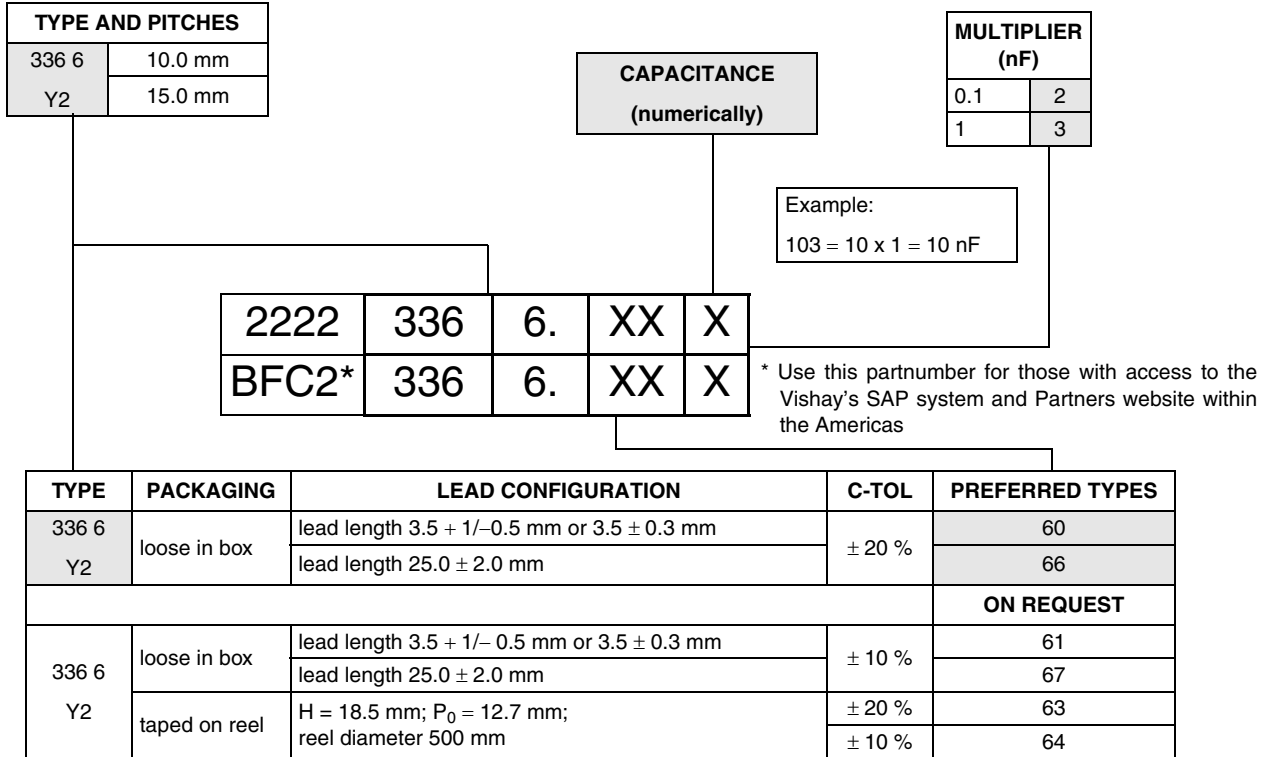
DETAIL SPECIFICATION

For more detailed data and test requirements see "Type detail specification HQN-384-14/109"



RoHS
COMPLIANT

COMPOSITION OF CATALOG NUMBER



SPECIFIC REFERENCE DATA MKP 336 6 250 VAC

DESCRIPTION	VALUE	
	at 10 kHz	at 100 kHz
Tangent of loss angle	≤ 10 × 10 ⁻⁴	≤ 30 × 10 ⁻⁴
Rated voltage pulse slope (dU/dt) _R at 355 V (DC)	200 V/μs	
R between leads, for C ≤ 0.33 μF at 100 V; 1 minute	> 15000 MΩ	
R between leads and case; 100 V; 1 minute	> 30000 MΩ	
Withstanding (DC) voltage (cut off current 10 mA); rise time 100 V/s	2700 V; 1 minute	
Withstanding (AC) voltage between leads and case	2000 V; 1 minute	



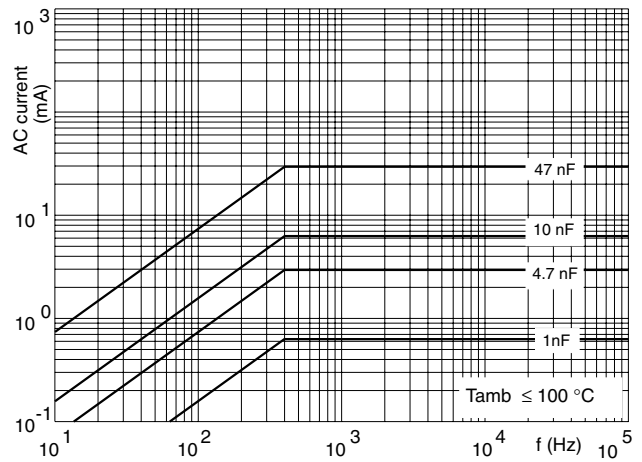
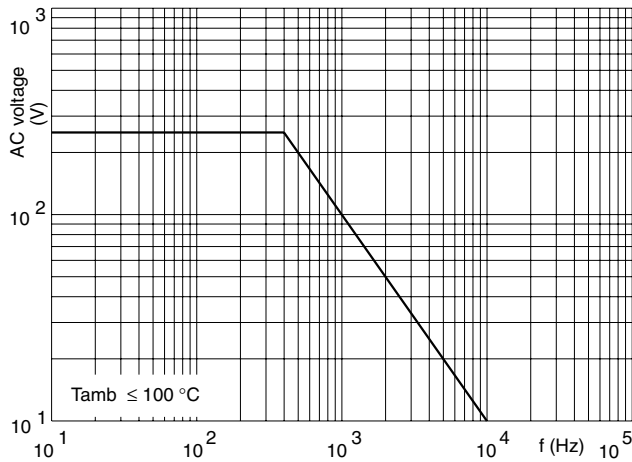
$U_{Rac} = 250\text{ V}$; $C\text{-tol} = \pm 20\%$

C (μF)	DIMENSIONS ⁽¹⁾ w × h × l (mm)	MASS (g)	CATALOG NUMBER 2222 336 AND PACKAGING					
			LOOSE IN BOX				REEL	
			$l_t = 3.5 + 1/- 0.5\text{ mm}^{(2)}$		$l_t = 25.0 \pm 2.0\text{ mm}$		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 ± 0.4 mm; d_t = 0.60 ± 0.06 mm								
0.001	4.0 × 10.0 × 12.5	0.6	60102	1000	66102	1250	63102	1400
0.0015			60152		66152		63152	
0.0022			60222		66222		63222	
0.0033	5.0 × 11.0 × 12.5	0.9	60332	1000	66332	1000	63332	1100
0.0047	6.0 × 12.0 × 12.5	1.0	60472	750	66472	750	63472	900
0.0068			60682		66682		63682	
Pitch = 15.0 ± 0.4 mm; d_t = 0.60 ± 0.06 mm								
0.0068	5.0 × 11.0 × 17.5	1.2	69005	1000	69009	1000	69006	1100
0.01			60103		66103		63103	
0.015			60153		66153		63153	
Pitch = 15.0 ± 0.4 mm; d_t = 0.80 ± 0.08 mm								
0.022	7.0 × 13.5 × 17.5	1.9	60223	1000	66223	500	63223	800
0.033	8.5 × 15.0 × 17.5	2.6	60333	1000	66333	500	63333	650
0.047	10.0 × 16.5 × 17.5	3.1	60473	500	66473	500	63473	600

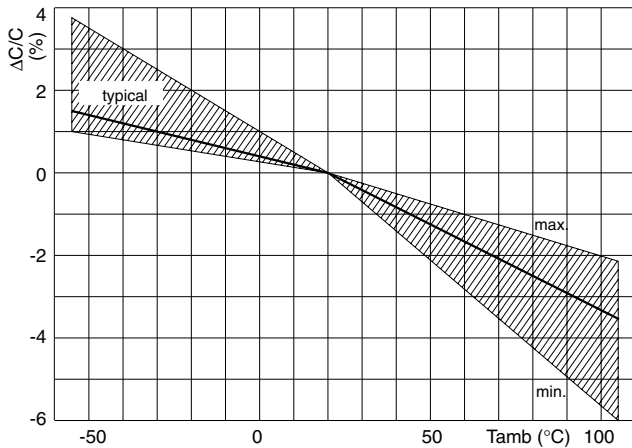
Notes

- Specified dimensions only valid for ± 20 % tolerance values.
- $l_t = 3.5 \pm 0.3\text{ mm}$ for pitch = 15 mm.

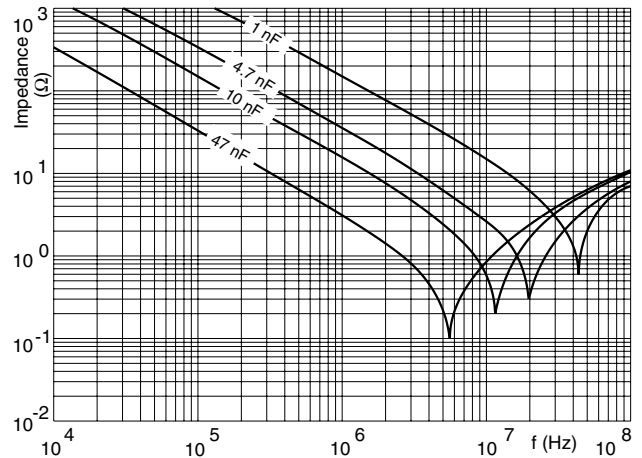
MAXIMUM RMS VOLTAGE AND AC CURRENT (SINEWAVE) AS A FUNCTION OF FREQUENCY



CAPACITANCE



IMPEDANCE



APPROVALS

COUNTRY	SPECIFICATION	ELECTRICAL VALUES	FILE NUMBERS	APPROVAL MARK
U.S.A. (for AC 250 V)	UL1414 UL1283	1 nF to 47 nF 1 nF to 47 nF	E112471 E109565	
Canada (for AC 250 V)	CSA-C22.2 No.1	1 nF to 47 nF	1104860 (LR 94054-6)	
CB TEST CERTIFICATE (for AC 250 V)		1 nF to 47 nF: 55/100/21/B	DE-1-7483	
Europe (for AC 250 V)	EN132400 IEC 60384-14 2 nd edition	1 nF to 47 nF	ENEC/B03/2001	



Notice

Specifications of the products displayed herein are subject to change without notice. Vishay Intertechnology, Inc., or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Vishay's terms and conditions of sale for such products, Vishay assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of Vishay products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Vishay for any damages resulting from such improper use or sale.