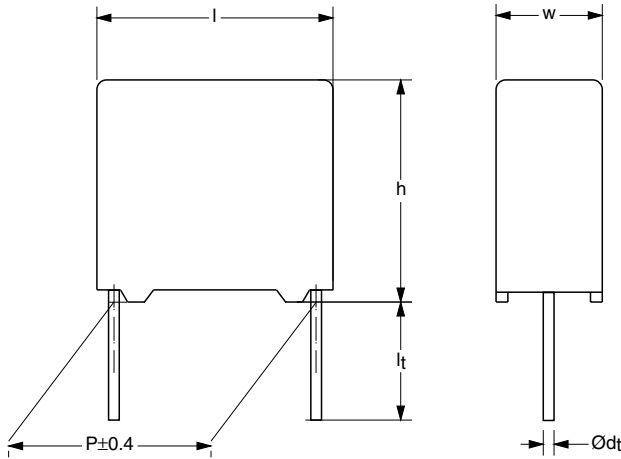


## Interference Suppression Film Capacitors MKP Radial Potted Type



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 2<sup>nd</sup> 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  $\mu$ 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

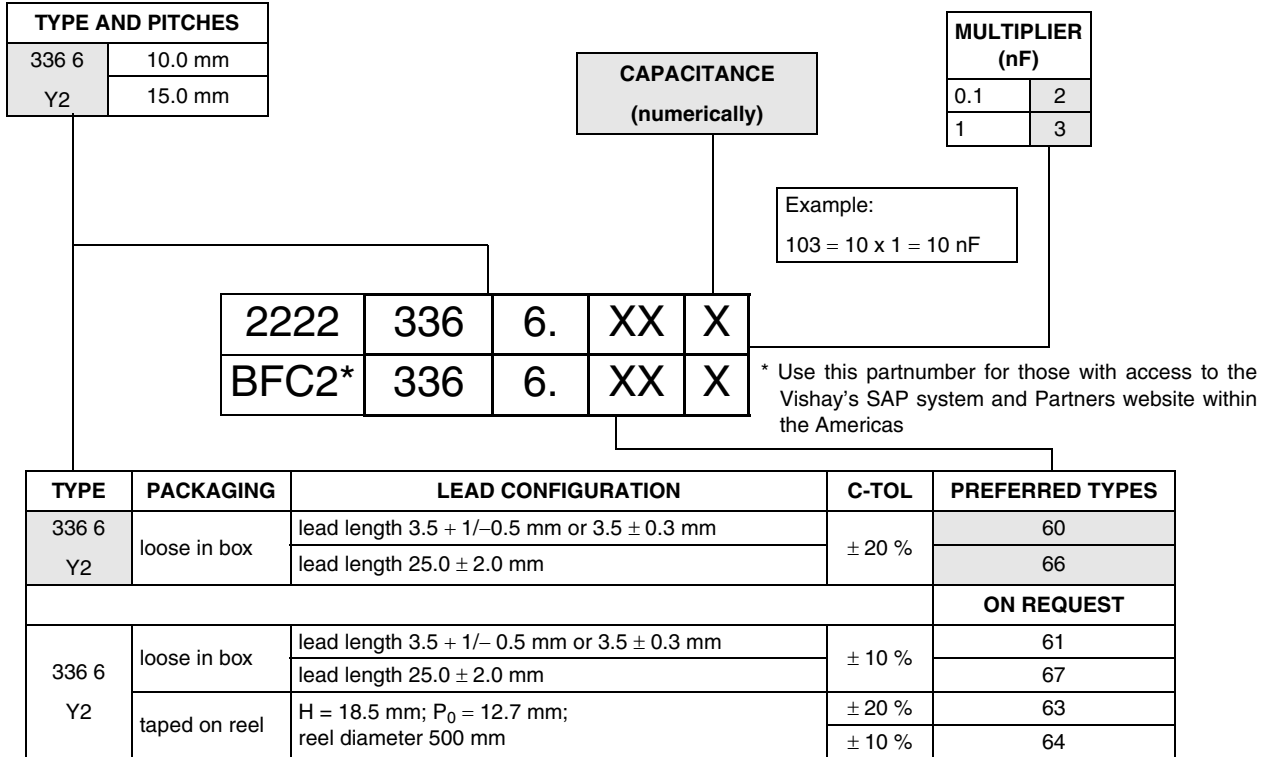
### DETAIL SPECIFICATION

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	$\leq 10 \times 10^{-4}$	$\leq 30 \times 10^{-4}$
Rated voltage pulse slope $(dU/dt)_R$ at 355 V (DC)	200 V/ $\mu$ s	
R between leads, for $C \leq 0.33 \mu\text{F}$ at 100 V; 1 minute	$> 15000 \text{ M}\Omega$	
R between leads and case; 100 V; 1 minute	$> 30000 \text{ M}\Omega$	
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	



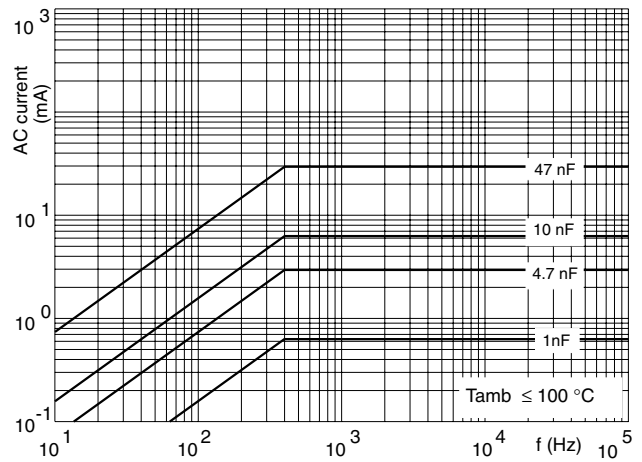
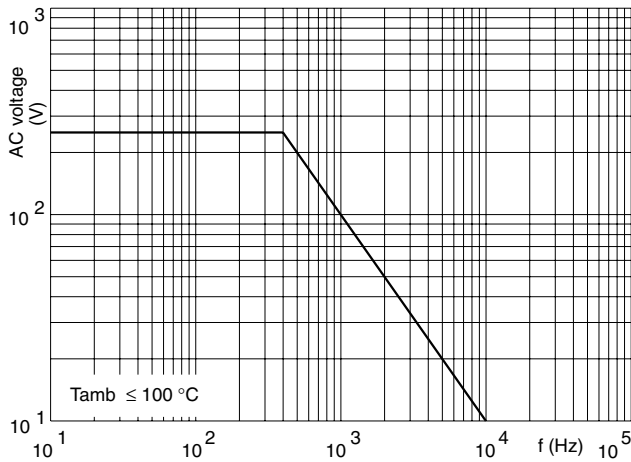
$U_{Rac} = 250 V$ ;  $C-tol = \pm 20 \%$

C ( $\mu F$ )	DIMENSIONS <sup>(1)</sup> 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 <sub>0</sub> = 12.7 mm	
			LAST 5 DIGITS OF CATALOG NUMBER	SPQ	LAST 5 DIGITS OF CATALOG NUMBER	SPQ	LAST 5 DIGITS OF CATALOG NUMBER	SPQ
<b>Pitch = 10.0 ± 0.4 mm; d<sub>t</sub> = 0.60 ± 0.06 mm</b>								
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	
<b>Pitch = 15.0 ± 0.4 mm; d<sub>t</sub> = 0.60 ± 0.06 mm</b>								
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	
<b>Pitch = 15.0 ± 0.4 mm; d<sub>t</sub> = 0.80 ± 0.08 mm</b>								
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

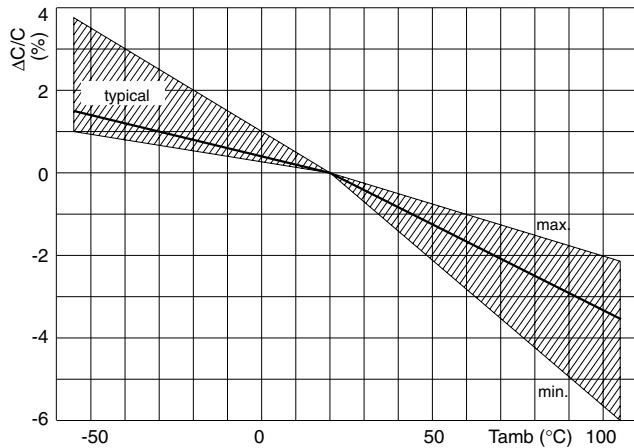
**Notes**

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

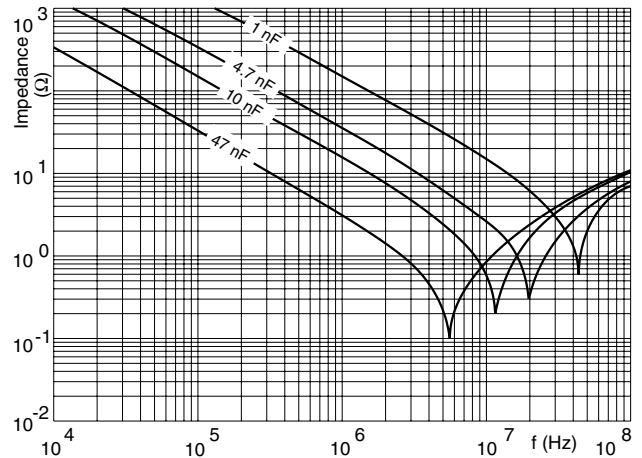
## MAXIMUM RMS VOLTAGE AND AC CURRENT (SINEWAVE) AS A FUNCTION OF FREQUENCY



## CAPACITANCE



## IMPEDANCE



## APPROVALS

COUNTRY	SPECIFICATION	ELECTRICAL VALUES	FILE NUMBERS	APPROVAL MARK
U.S.A. (for AC 250 V)	UL1414	1 nF to 47 nF	E112471	
(for AC 250 V)	UL1283	1 nF to 47 nF	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 <sup>nd</sup> edition	1 nF to 47 nF	ENEC/B03/2001	



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