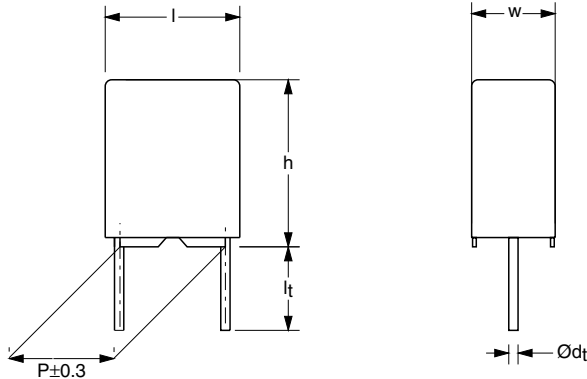


**Metallized Polypropylene Filter Film Capacitors  
MKP Radial Potted Type  
for Surge Voltage Applications**



Dimensions in mm

**APPLICATIONS**

Low losses due to low contact resistance and low loss dielectric result in applications where high frequency occur or high stability is preferred. Their small dimensions make them suitable for circuits with high packaging density.

**MARKING**

C-value; rated voltage; tolerance; code for manufacturer; year and week of manufacture; manufacturers type designation

**DIELECTRIC**

Polypropylene film

**ELECTRODES**

Vacuum deposited aluminum

**ENCAPSULATION**

Flame retardant plastic case and epoxy resin (UL-class 94 V-0)

**CONSTRUCTION**

Wound mono construction

**LEADS**

Tinned wire

**CAPACITANCE RANGE (E24 SERIES)**

0.001 to 0.047  $\mu$ F

**FEATURES**

7.5 and 10 mm lead pitch. Supplied loose in box and ammpack. Withstand surge voltages up to 1.5 kV.

Lead (Pb)-free product

RoHS-compliant product

**CAPACITANCE TOLERANCE**

$\pm 5 \%$ ;  $\pm 2 \%$

**RATED (DC) VOLTAGE**

630 V

**RATED (AC) VOLTAGE**

160 V

**RATED PEAK-TO-PEAK VOLTAGE**

450 V

**CLIMATIC CATEGORY**

55/085/56

**RATED TEMPERATURE (DC)**

85 °C

**RATED TEMPERATURE (AC)**

85 °C

**MAXIMUM APPLICATION TEMPERATURE**

85 °C

**REFERENCE SPECIFICATIONS**

IEC 60384-16

**PERFORMANCE GRADE**

Grade 1 (long life)

**STABILITY GRADE**

Grade 1

**DETAIL SPECIFICATION**

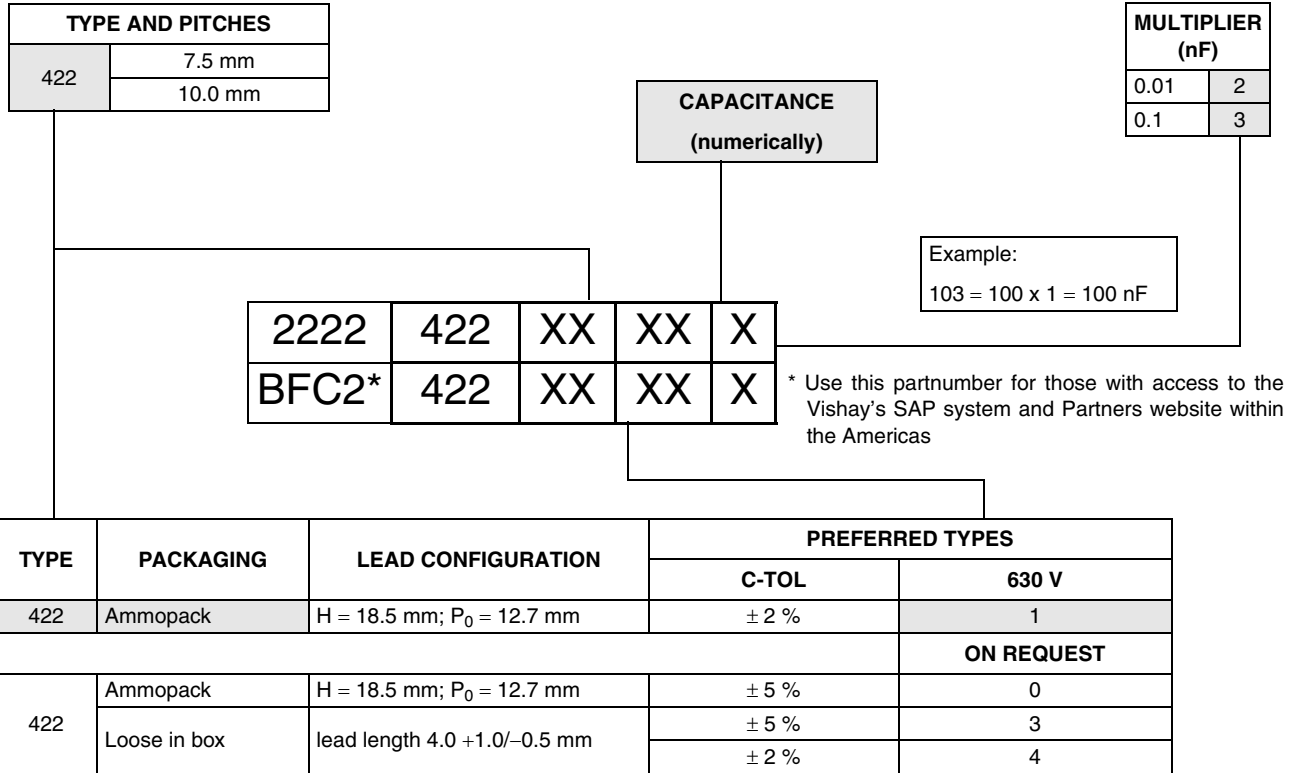
For more detailed data and test requirements contact: [filmcaps.roeselare@vishay.com](mailto:filmcaps.roeselare@vishay.com)





**Metallized Polypropylene Filter Film Capacitors Vishay BCcomponents**  
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**COMPOSITION OF CATALOG NUMBER**



**SPECIFIC REFERENCE DATA**

DESCRIPTION	VALUE	
Tangent of loss angle: C ≤ 0.0047 μF	at 10 kHz	at 100 kHz
	≤ 5 × 10 <sup>-4</sup>	≤ 15 × 10 <sup>-4</sup>
Rated voltage pulse slope (dU/dt) <sub>R</sub> at 630 V (DC)	50 V/μs	
R between leads at 500 V; 1 minute	> 100000 MΩ	
R between interconnected leads and case at 500 V; 1 minute	> 100000 MΩ	
Withstanding (DC) voltage (cut off current 10 mA); rise time 100 V/s	1000 V; 1 minute	
Withstanding (DC) voltage between leads and case	2840 V; 1 minute	

Vishay BCcomponents Metallized Polypropylene Filter Film Capacitors  
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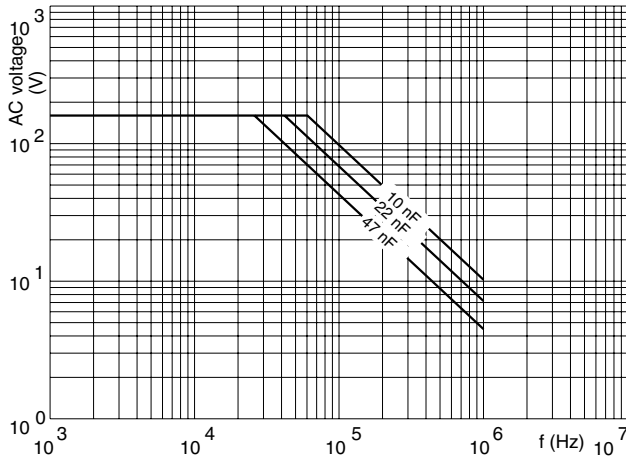
$U_{Rdc} = 630 \text{ V}$ ;  $U_{Rac} = 160 \text{ V}$ ;  $U_{p-p} = 450 \text{ V}$

C (E 24) ( $\mu\text{F}$ )	DIMENSIONS $b \times h \times l$ (mm)	MASS (g)	CATALOGUE NUMBER AND PACKAGING		
			AMMOPACK		LOOSE IN BOX
			H = 18.5 mm		$l_t = 4.0 + 1.0/- 0.5 \text{ mm}$
			C-tol = $\pm 2 \%$	SPQ	SPQ
last 5 digits of catalog number					
<b>Pitch = <math>7.5 \pm 0.4 \text{ mm}</math>; <math>d_t = 0.50 \pm 0.05 \text{ mm}</math></b>					
0.001	4.0 × 9.0 × 10.0	0.50	11002	1250	1500
0.0011					
0.0012					
0.0013					
0.0015					
0.0016					
0.0018					
0.002					
0.0022					
0.0024					
0.0027					
0.003	5.0 × 10.5 × 10.0	0.90	13002	1000	1000
0.0033					
0.0036					
0.0039					
0.0043	6.0 × 11.5 × 10.0	1.0	14302	750	750
0.0047					
<b>Pitch = <math>10.0 \pm 0.4 \text{ mm}</math>; <math>d_t = 0.60 \pm 0.06 \text{ mm}</math></b>					
0.0051	4.0 × 10.0 × 12.5	0.60	15102	750	1000
0.0056					
0.0062					
0.0068					
0.0075					
0.0082					
0.01					
0.011					
0.012					
0.013					
0.015					
0.016					
0.018	5.0 × 11.0 × 12.5	0.85	11803	600	1000
0.02					
0.022					
0.024					
0.027	6.0 × 12.0 × 12.5	1.10	12703	500	750
0.03					
0.033					
0.036					
0.039					
0.043					
0.047					

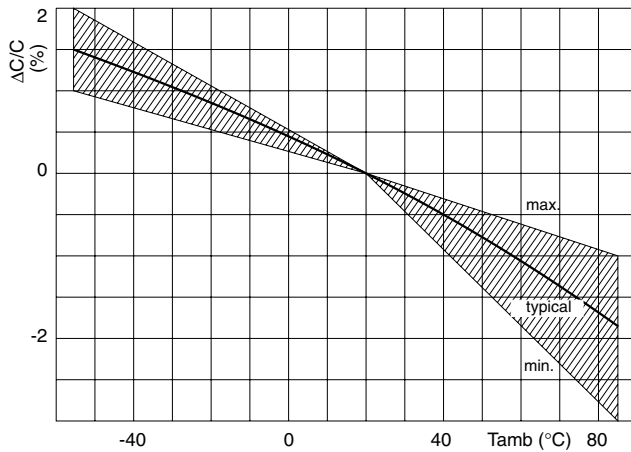


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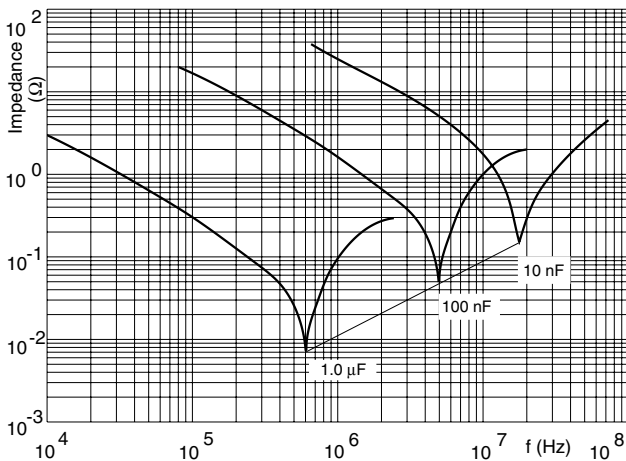
MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY



CAPACITANCE



IMPEDANCE





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