

Interference suppression Film Capacitors MKP Radial Potted Type

APPLICATIONS

X2 class

REFERENCE STANDARDS

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

"IEC 60065, pass. flamm. class B"

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

275 V: ENEC; CQC;

MARKING

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

DIELECTRIC

Polypropylene film

ELECTRODES

Metallized film

CONSTRUCTION

Mono construction

RATED VOLTAGE

AC 275 V; 50 to 60 Hz

PERMISSIBLE DC VOLTAGE

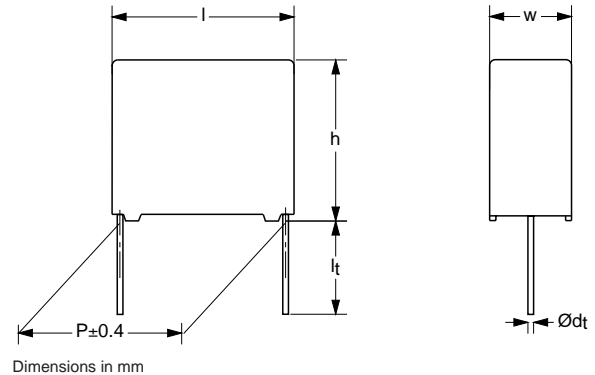
DC 630 V

ENCAPSULATION

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

CLIMATIC TESTING CLASS ACC. TO EN 60068-1

55/105/56/B


CAPACITANCE RANGE (E12 SERIES)

E12 series 0.01 to 0.47 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

FEATURES

15 to 22.5 mm lead pitch. Supplied loose in box and taped on reel

DETAIL SPECIFICATION

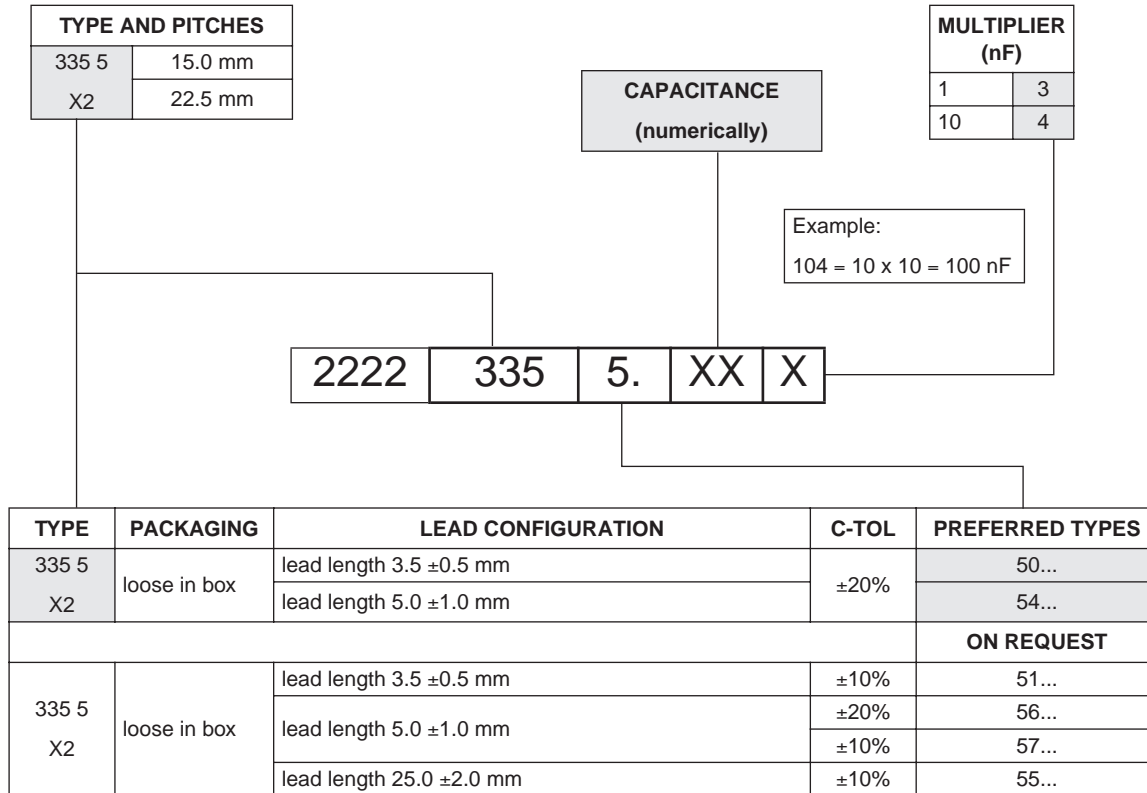
For more detailed data and test requirements see "Type detail specification HQN-384-14/112"

MKP 335 5 X2

Vishay BCcomponents Interference suppression Film Capacitors
MKP Radial Potted Type



COMPOSITION OF CATALOG NUMBER



SPECIFIC REFERENCE DATA MKP 335 5 275 VAC

DESCRIPTION	VALUE		
	at 1 kHz	at 10 kHz	at 100 kHz
Tangent of loss angle:			
C ≤ 100 nF	≤7 × 10 ⁻⁴	≤10 × 10 ⁻⁴	≤30 × 10 ⁻⁴
100 nF < C ≤ 470 nF	≤10 × 10 ⁻⁴	≤20 × 10 ⁻⁴	≤70 × 10 ⁻⁴
Rated voltage pulse slope (dU/dt) _R at 385 V (DC)	100 V/μs		
R between leads, for C ≤ 0.33 μF at 100 V; 1 minute	>15000 MΩ		
RC between leads, for C > 0.33 μF at 100 V; 1 minute	>5000 s		
R between leads and case; 100 V; 1 minute	>30000 MΩ		
Withstanding voltage DC (cut off current 10 mA); rise time 100 V/s	2200 V; 1 minute		
Withstanding voltage AC between leads and case	2050 V; 1 minute		



Interference suppression Film Capacitors Vishay BCcomponents
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$U_{Rac} = 275\text{ V}$; $C\text{-tol} = \pm 20\%$

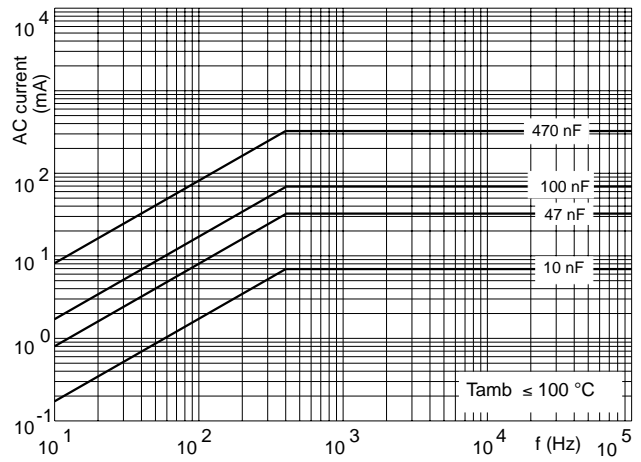
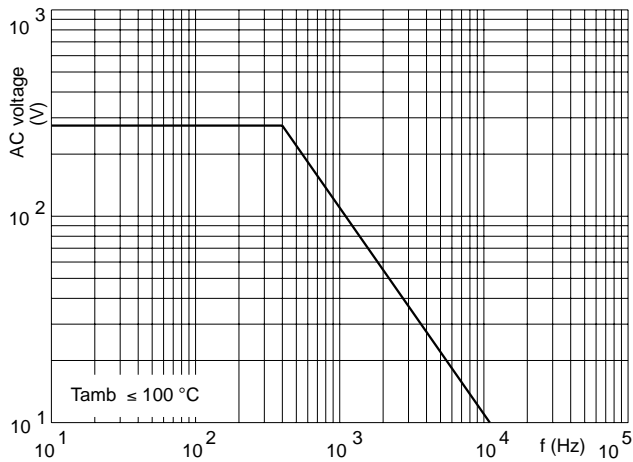
C (μF)	DIMENSIONS ⁽¹⁾ w × h × l (mm)	MASS (g)	CATALOG NUMBER 2222 335 AND PACKAGING				
			LOOSE IN BOX				
			short leads			long leads	
			$l_t = 3.5 \pm 0.5\text{ mm}$	$l_t = 5.0 \pm 1.0\text{ mm}$	SPQ	$l_t = 25.0 \pm 2.0\text{ mm}$	
			last 5 digits of catalog number	last 5 digits of catalog number		last 5 digits of catalog number	SPQ
Pitch = 15.0 ±0.4 mm; $d_t = 0.80 \pm 0.08\text{ mm}$							
0.01	5.0 × 11.0 × 17.5	1.2	50103	56103	1250	54103	1000
0.015			50153	56153		54153	
0.022			50223	56223		54223	
0.033			50333	56333		54333	
0.047	6.0 × 12.0 × 17.5	1.4	50473	56473	1000	54473	1000
0.068	7.0 × 13.5 × 17.5	1.9	50683	56683	750	54683	500
0.1	8.5 × 15.0 × 17.5	2.6	50104	56104	750	54104	500
0.15	10.0 × 16.5 × 17.5	3.1	50154	56154	500	54154	450
Pitch = 22.5 ±0.4 mm; $d_t = 0.80 \pm 0.08\text{ mm}$							
0.22	8.5 × 18.0 × 26.0	4.4	50224	56224	200	54224	250
0.33	10.0 × 19.5 × 26.0	5.5	50334	56334	200	54334	200
0.47	12.0 × 22.0 × 26.0	7.8	50474	56474	150	54474	200

Note

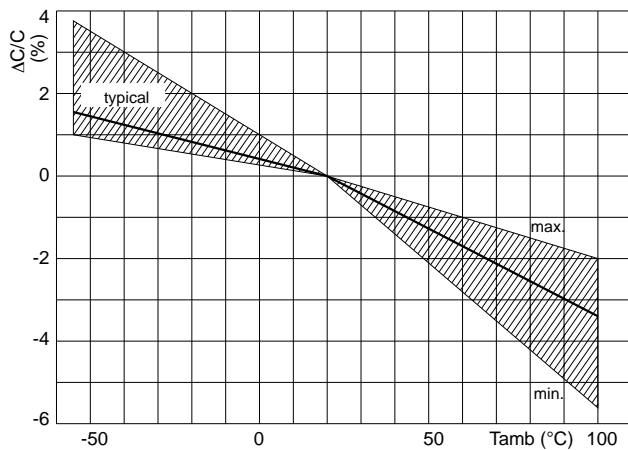
- Specified dimensions only valid for ±20% tolerance values.



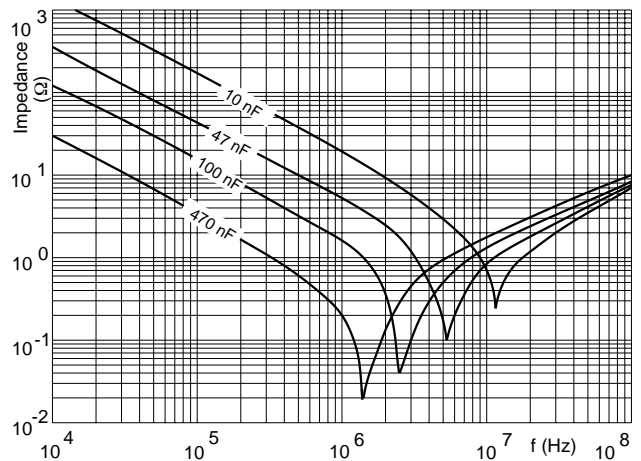
MAXIMUM RMS VOLTAGE AND AC CURRENT (SINEWAVE) AS A FUNCTION OF FREQUENCY



CAPACITANCE



IMPEDANCE



APPROVALS

COUNTRY	SPECIFICATION	ELECTRICAL VALUES	FILE NUMBERS	APPROVAL MARK
U.S.A. (for AC 250 V)	UL1414	10 nF to 1.0 μF	E112471	
Canada (for AC 250 V)	CSA-C22.2 No.1	10 nF to 1.0 μF	1104861 (LR94054-16)	
China (for AC 275 V)	CQC	10 nF to 1.5 μF	CQC02001001482 (Shanghai factory) CQC03001004371 (Roeselare factory)	
CB TEST CERTIFICATE (for AC 275 V)		10 nF to 1.5 μF : 55/100/56/B	FI 1185 A2	
Europe (for AC 275 V)	EN132400 IEC 60384-14 2 nd edition	10 nF to 1.5 μF	ENEC/B06/2001	