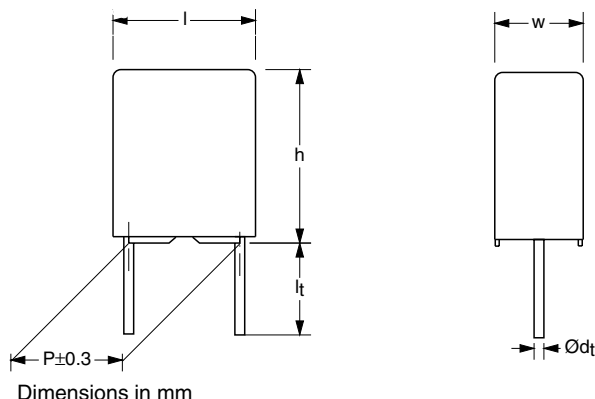


Metallized Polyester Film Capacitors

MKT Radial Potted Type



APPLICATIONS

Blocking, coupling and decoupling. Bypass and energy reservoir

MARKING

C-value; tolerance; rated voltage; year and week of manufacturer; manufacturer's type designation

DIELECTRIC

Polyester 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 TOLERANCE

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

FEATURES

Pitch 5 mm available loose in box, ammopack and taped on reel.

Lead (Pb)-free product

RoHS-compliant product



RoHS
COMPLIANT

CAPACITANCE RANGE (E12 SERIES)

0.001 to 1.2 μF

RATED (DC) VOLTAGE

63 V; 100 V; 250 V; 400 V

RATED (AC) VOLTAGE

40 V; 63 V; 160 V; 200 V

CLIMATIC CATEGORY

55/125/56

RATED TEMPERATURE

85 °C

MAXIMUM APPLICATION TEMPERATURE

125 °C

REFERENCE SPECIFICATIONS

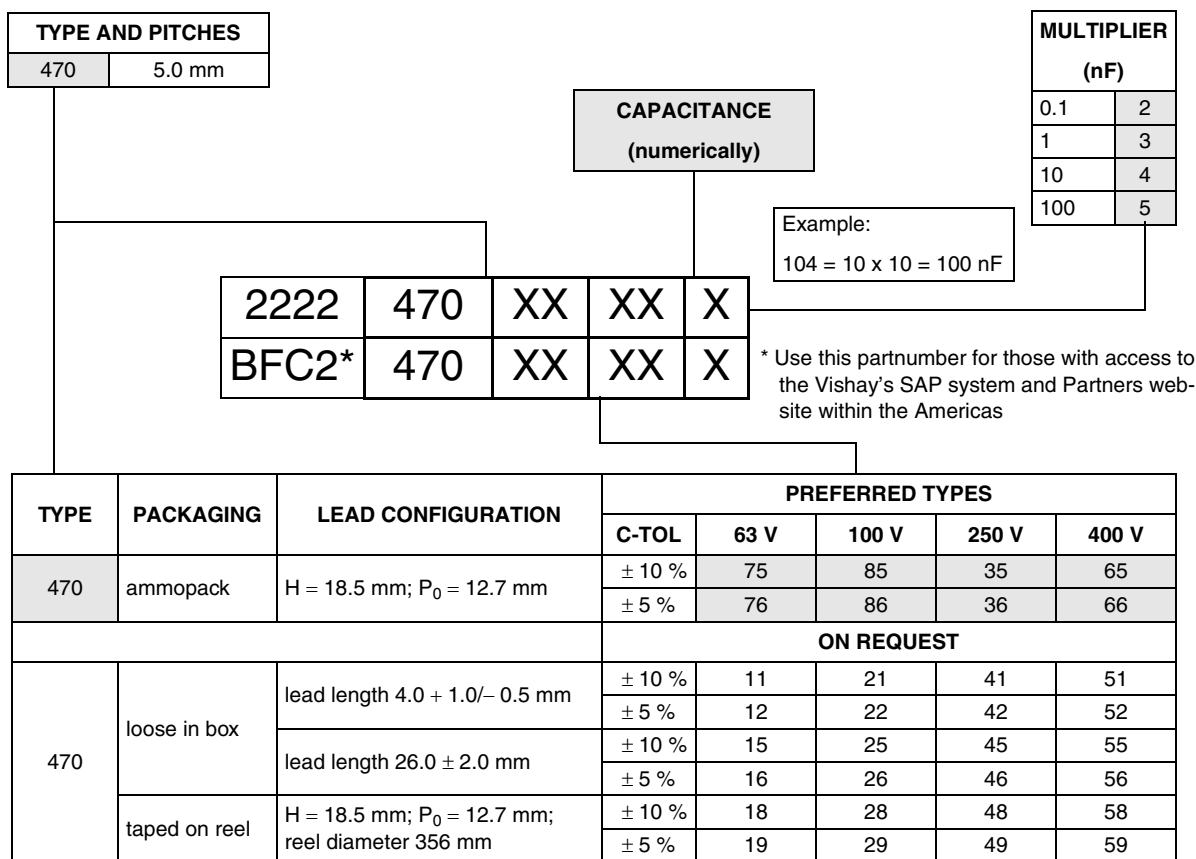
IEC 60384-2

PERFORMANCE GRADE

Grade 1 (long life)

DETAIL SPECIFICATION

For more detailed data and test requirements see "Type detail specification HQN-384-02/104"

**COMPOSITION OF CATALOG NUMBER****SPECIFIC REFERENCE DATA**

DESCRIPTION	VALUE			
Tangent of loss angle: C ≤ 0.1 µF 0.1 µF < C ≤ 0.47 µF 0.47 µF < C ≤ 1.2 µF	at 1 kHz	at 10 kHz	at 100 kHz	
	≤ 60 × 10 ⁻⁴	≤ 120 × 10 ⁻⁴	≤ 200 × 10 ⁻⁴	
	≤ 60 × 10 ⁻⁴	≤ 120 × 10 ⁻⁴	≤ 225 × 10 ⁻⁴	
	≤ 60 × 10 ⁻⁴	≤ 120 × 10 ⁻⁴	-	
Rated voltage pulse slope (dU/dt) _R	at 63 V (DC)	at 100 V (DC)	at 250 V (DC)	at 400 V (DC)
	100 V/µs	160 V/µs	400 V/µs	800 V/µs
R between leads, for C ≤ 0.33 µF: at 10 V; 1 minute at 100 V; 1 minute	> 15000 MΩ	> 15000 MΩ	> 15000 MΩ	> 15000 MΩ
RC between leads, for: C > 0.33 µF at 10 V; 1 minute C > 0.33 µF at 100 V; 1 minute	> 5000 s	> 5000 s		
R between interconnected leads and case (foil method)	> 30000 MΩ	> 30000 MΩ	> 30000 MΩ	> 30000 MΩ
Withstanding (DC) voltage (cut off current 10 mA); rise time 100 V/s	100 V; 1 minute	160 V; 1 minute	400 V; 1 minute	640 V; 1 minute
Withstanding (DC) voltage between leads and case	200 V; 1 minute	200 V; 1 minute	500 V; 1 minute	800 V; 1 minute

$U_{Rdc} = 63 \text{ V}$; $U_{Rac} = 40 \text{ V}$

C (μF)	DIMENSIONS W × H × L (mm)	MASS (g)	CATALOG NUMBER 2222 470 ... AND PACKAGING					
			AMMOPACK			REEL	LOOSE IN BOX	
			H = 18.5 mm				short leads	long leads
			C-tol = ± 10 %	C-tol = ± 5 %	SPQ	SPQ		
			last 5 digits of catalog number	last 5 digits of catalog number				
Pitch = 5.0 ± 0.3 mm; d _t = 0.50 ± 0.05 mm								
0.068 0.082 0.1	2.5 × 6.5 × 7.2	0.25	75683 75823 75104	76683 76823 76104	2000	2000	2000	1000
0.12 0.15 0.18 0.22 0.27 0.33 0.39	3.5 × 8.0 × 7.2	0.35	75124 75154 75184 75224 75274 75334 75394	76124 76154 76184 76224 76274 76334 76394	1500	1500	2000	1000
0.47 0.56 0.68	4.5 × 9.0 × 7.2	0.45	75474 75564 75684	76474 76564 76684	1000	1000	2000	1000
0.82 1 1.2	6.0 × 11.0 × 7.2	0.60	75824 75105 75125	76824 76105 76125	750	1000	2000	1000

 $U_{Rdc} = 100 \text{ V}$; $U_{Rac} = 63 \text{ V}$

C (μF)	DIMENSIONS W × H × L (mm)	MASS (g)	CATALOG NUMBER 2222 470 ... AND PACKAGING					
			AMMOPACK			REEL	LOOSE IN BOX	
			H = 18.5 mm				short leads	long leads
			C-tol = ± 10 %	C-tol = ± 5 %	SPQ	SPQ		
			last 5 digits of catalog number	last 5 digits of catalog number				
Pitch = 5.0 ± 0.3 mm; d _t = 0.50 ± 0.05 mm								
0.022	2.5 × 6.5 × 7.2	0.25	85223	86223	2000	2000	2000	1000
0.027			85273	86273				
0.033			85333	86333				
0.039			85393	86393				
0.047			85473	86473				
0.056			85563	86563				
0.068	3.5 × 8.0 × 7.2	0.35	85683	86683	1500	1500	2000	1000
0.082			85823	86823				
0.1			85104	86104				
0.12			85124	86124				
0.15	4.5 × 9.0 × 7.2	0.45	85154	86154	1000	1000	2000	1000
0.18			85184	86184				
0.22			85224	86224				
0.27	6.0 × 11.0 × 7.2	0.65	85274	86274	750	1000	2000	1000
0.33			85334	86334				
0.39			85394	86394				
0.47			85474	86474				

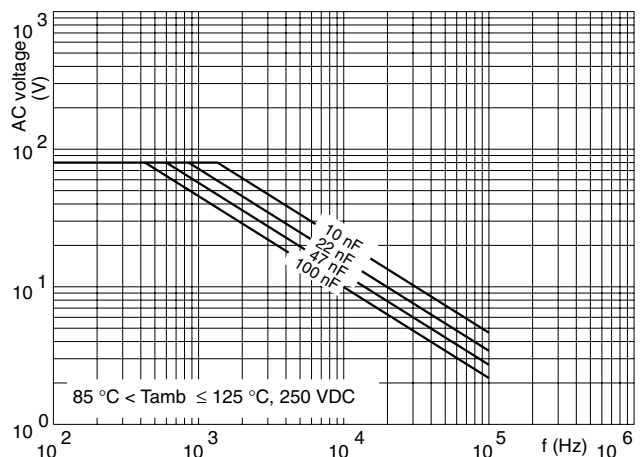
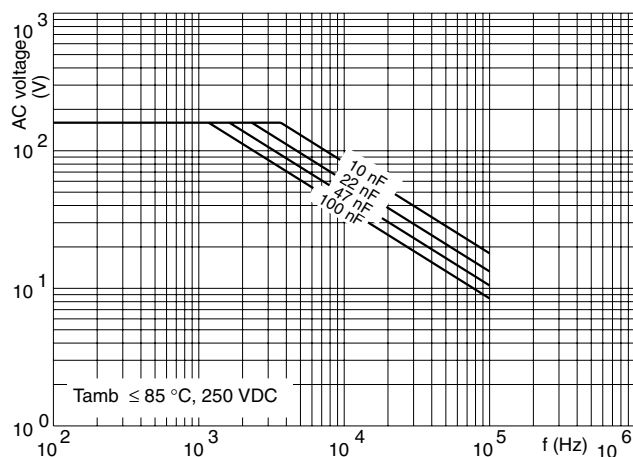
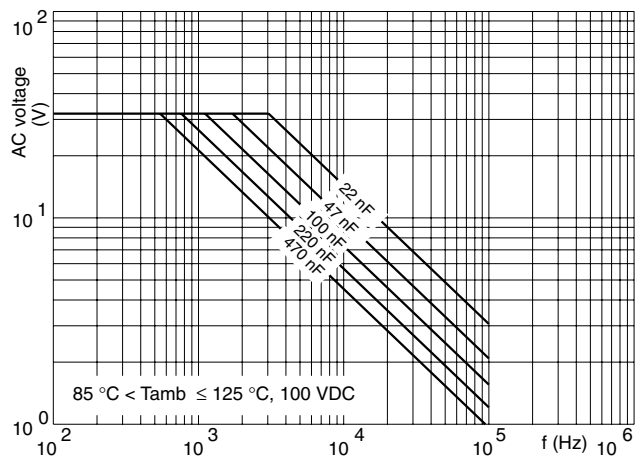
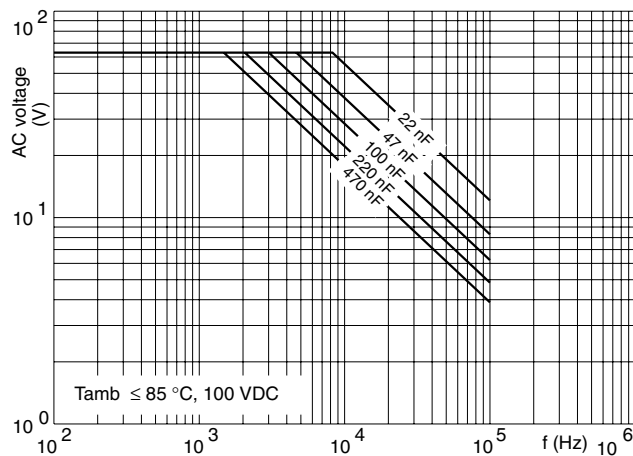
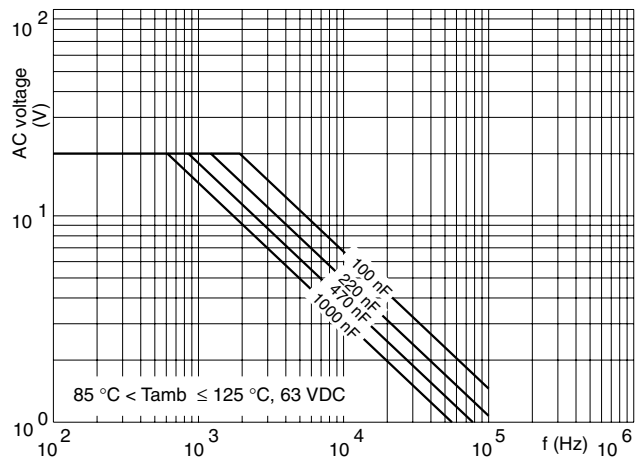
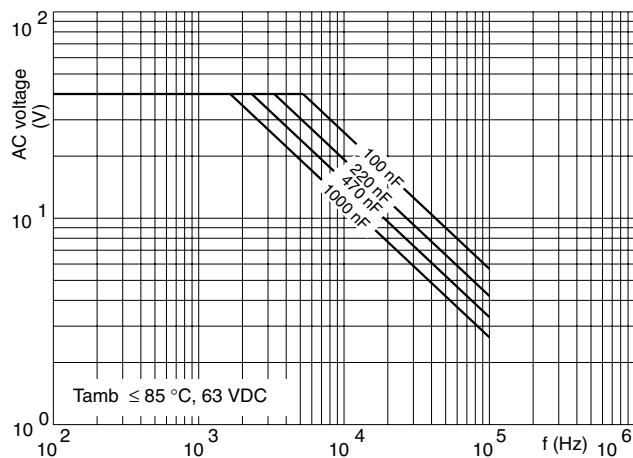
**Metallized Polyester Film Capacitors Vishay BCcomponents**
MKT Radial Potted Type**U_{Rdc} = 250 V; U_{Rac} = 160 V**

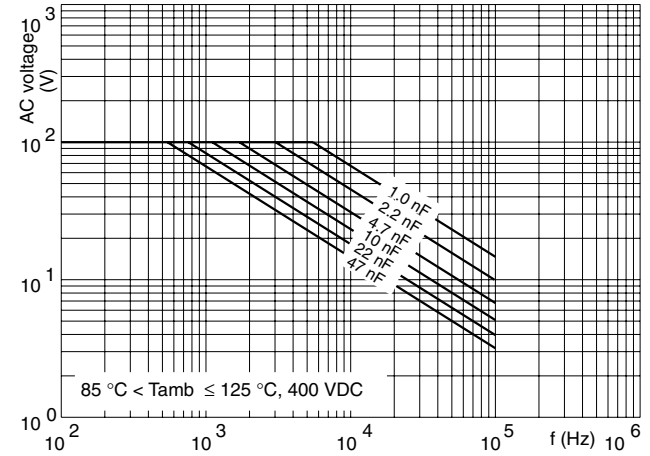
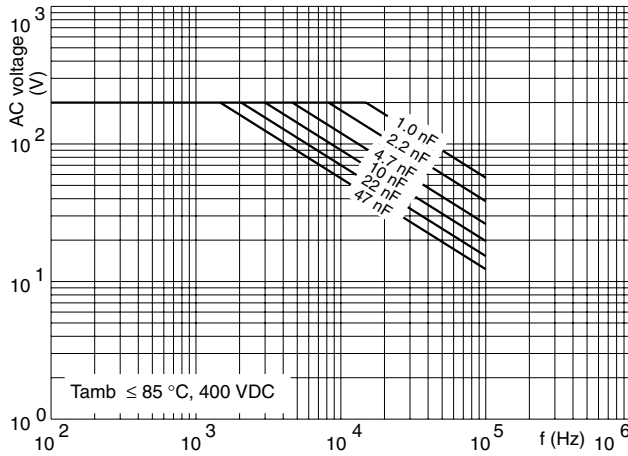
C (μF)	DIMENSIONS W × H × L (mm)	MASS (g)	CATALOG NUMBER 2222 470 ... AND PACKAGING					
			AMMOPACK			REEL	LOOSE IN BOX	
			H = 18.5 mm				short leads	long leads
			C-tol = ± 10 %	C-tol = ± 5 %	SPQ			
			last 5 digits of catalog number	last 5 digits of catalog number				
Pitch = 5.0 ± 0.3 mm; d _t = 0.50 ± 0.05 mm								
0.01 0.012 0.015 0.018	2.5 × 6.5 × 7.2	0.25	35103 35123 35153 35183	36103 36123 36153 36183	2000	2000	2000	1000
0.022 0.027 0.033 0.039	3.5 × 8.0 × 7.2	0.35	35223 35273 35333 35393	36223 36273 36333 36393	1500	1500	2000	1000
0.047 0.056 0.068	4.5 × 9.0 × 7.2	0.45	35473 35563 35683	36473 36563 36683	1000	1000	2000	1000
0.082 0.1 0.12	6.0 × 11.0 × 7.2	0.60	35823 35104 35124	36823 36104 36124	750	1000	2000	1000

U_{Rdc} = 400 V; U_{Rac} = 200 V

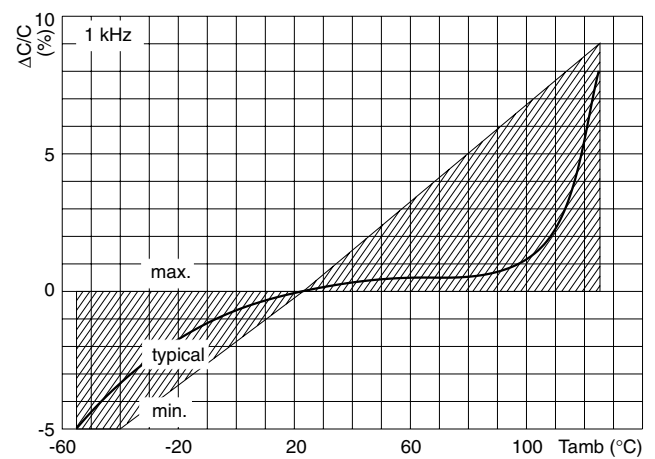
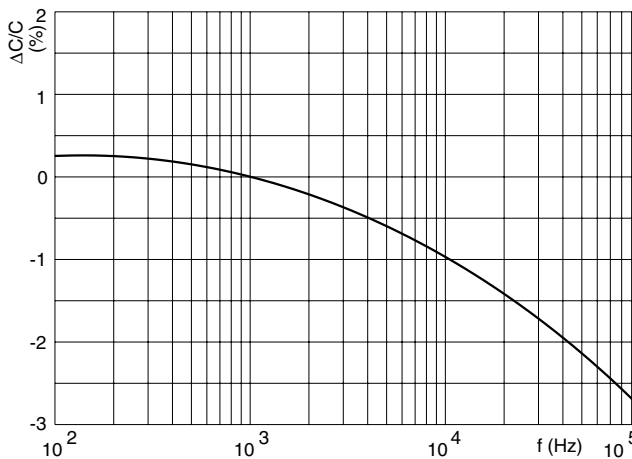
C (μF)	DIMENSIONS W × H × L (mm)	MASS (g)	CATALOG NUMBER 2222 470 ... AND PACKAGING					
			AMMOPACK			REEL	LOOSE IN BOX	
			H = 18.5 mm				short leads	long leads
			C-tol = ± 10 %	C-tol = ± 5 %	SPQ	SPQ		
			last 5 digits of catalog number	last 5 digits of catalog number				
Pitch = 5.0 ± 0.3 mm; d _t = 0.50 ± 0.05 mm								
0.001	2.5 × 6.5 × 7.2	0.25	65102	66102	2000	2000	2000	1000
0.0012			65122	66122				
0.0015			65152	66152				
0.0018			65182	66182				
0.0022			65222	66222				
0.0027			65272	66272				
0.0033			65332	66332				
0.0039			65392	66392				
0.0047			65472	66472				
0.0056			65562	66562				
0.0068			65682	66682				
0.0082			65822	66822				
0.01	3.5 × 8.0 × 7.2	0.35	65103	66103	1500	1500	2000	1000
0.012			65123	66123				
0.015			65153	66153				
0.018	4.5 × 9.0 × 7.2	0.45	65183	66183	1000	1000	2000	1000
0.022			65223	66223				
0.027			65273	66273				
0.033	6.0 × 11.0 × 7.2	0.60	65333	66333	750	1000	2000	1000
0.039			65393	66393				
0.047			65473	66473				

MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY

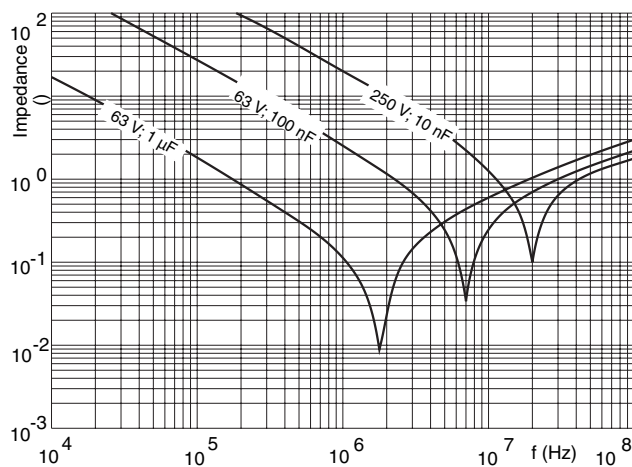




CAPACITANCE



IMPEDANCE





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