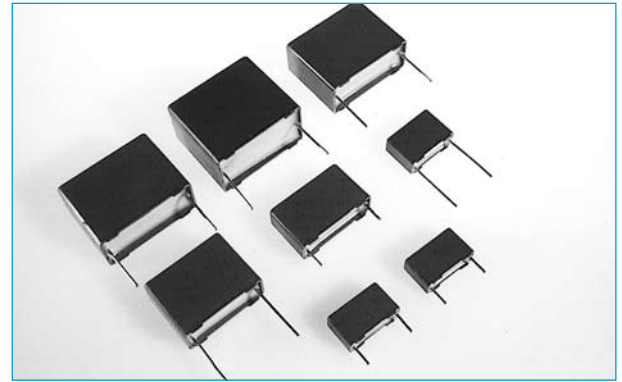


CAPACITORS

- Metallised Polypropylene
- 7.5mm - 37.5mm pitch
- Plastic case UL94V-0
- Epoxy resin sealed
- High pulse strength
- Small dimensions
- High contact reliability

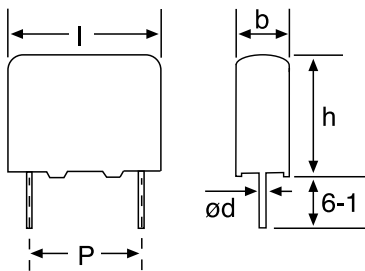
BOX POLYPROPYLENE LBPP



SPECIFICATION

Temperature Range	-55 to 100 °C			
Voltage Range	160Vdc (90Vac) to 2000Vdc (700Vac) @ f≤1kHz			
Capacitance Tolerance	±5% (J), ±10% (K), ±20% (M)			
Test Voltage	1.6 x Vd.c. for 2 seconds			
Dissipation factor tanδ (in 10⁻³) at 20 °C (Staked film technology)		C≤0.1μF	0.1μF<C≤1μF	C>1μF
	at 1kHz	-	(0.5) 0.5	0.5
	10kHz	-	(1.5) 0.8	1.5
Wound technology	100kHz	(4.0) 5.0	-	-
Insulation resistance at 20 °C, rel. humidity ≤65%	C>0.33μF 30000s			

OUTLINE DRAWING



DIMENSIONS

Pitch P±0.4	Diameter d
7.5	0.5
10	0.5*/0.6
15	0.8
22.5	0.8
27.5	0.8
37.5	1.0

* 0.5mm for capacitor width b=4mm

ORDERING INFORMATION

LBPP	0.1	160	K	7.5
Range	Capacitance μF	Voltage	Tolerance	Pitch
			J = 5%	7.5
			K = 10%	10
			M = 20%	15
				22.5
				27.5
				37.5

CASE DIMENSIONS (mm) - 7.5mm PITCH STACKED FILM TECHNOLOGY

Capacitance	Voltage DC/AC														
	160V/90V			250V/140V			400V/200V			630V/400V			1000V/500V		
	b	h	l	b	h	l	b	h	l	b	h	l	b	h	l
1.5nF										4.0	8.5	10.0	4.0	8.5	10.0
2.2nF										4.0	8.5	10.0	4.0	8.5	10.0
3.3nF										4.0	8.5	10.0	5.0	10.5	10.0
4.7nF										4.0	8.5	10.0	5.0	10.5	10.0
6.8nF							4.0	8.5	10.0	5.0	10.5	10.0	6.0	12.0	10.0
10nF							4.0	8.5	10.0	5.0	10.5	10.0			
15nF							5.0	10.5	10.0	6.0	12.0	10.0			
22nF				4.0	8.5	10.0	5.0	10.5	10.0						
33nF	4.0	8.5	10.0	4.0	8.5	10.0	6.0	12.0	10.0						
47nF	4.0	8.5	10.0	5.0	10.5	10.0									
68nF	5.0	10.5	10.0	5.0	10.5	10.0									
0.1µF	5.0	10.5	10.0	6.0	12.0	10.0									
0.15µF	6.0	12.0	10.0												

CASE DIMENSIONS (mm) - 10mm PITCH STACKED FILM TECHNOLOGY

Capacitance	Voltage DC/AC														
	160V/90V			250V/140V			400V/200V			630V/400V			1000V/500V		
	b	h	l	b	h	l	b	h	l	b	h	l	b	h	l
2.2nF										4.0	7.0	13.0	4.0	9.0	13.0
3.3nF										4.0	9.0	13.0	4.0	9.0	13.0
4.7nF										4.0	9.0	13.0	4.0	9.0	13.0
6.8nF										4.0	9.0	13.0	5.0	11.0	13.0
10nF							4.0	9.0	13.0	4.0	9.0	13.0	6.0	12.0	13.0
15nF							4.0	9.0	13.0	5.0	11.0	13.0			
22nF							5.0	11.0	13.0	6.0	12.0	13.0			
33nF				4.0	9.0	13.0	5.0	11.0	13.0						
47nF	4.0	9.0	13.0	4.0	9.0	13.0	6.0	12.0	13.0						
68nF	4.0	9.0	13.0	5.0	11.0	13.0									
0.1µF	5.0	11.0	13.0	6.0	12.0	13.0									
0.15µF	5.0	11.0	13.0												
0.22µF	6.0	12.0	13.0												

CASE DIMENSIONS (mm) - 15mm PITCH STACKED FILM TECHNOLOGY

Capacitance	Voltage DC/AC														
	160V/90V			250V/140V			400V/200V			630V/400V			1000V/500V		
	b	h	l	b	h	l	b	h	l	b	h	l	b	h	l
10nF													5.0	10.5	18.0
15nF													6.0	11.0	18.0
22nF													7.0	12.5	18.0
33nF										5.0	10.5	18.0	8.5	14.5	18.0
47nF							5.0	10.5	18.0	6.0	11.0	18.0	8.5	14.5	18.0
68nF							6.0	11.0	18.0	7.0	12.5	18.0			
0.1µF	5.0	10.5	18.0	5.0	10.5	18.0	7.0	12.5	18.0	8.5	14.5	18.0			
0.15µF	5.0	10.5	18.0	5.0	10.5	18.0	8.5	14.5	18.0	9.0	17.5	18.0			
0.22µF	5.0	10.5	18.0	6.0	11.0	18.0	9.0	17.5	18.0						
0.33µF	6.0	11.0	18.0	7.0	12.5	18.0									
0.47µF	7.0	12.5	18.0	8.5	14.5	18.0									
0.68µF	8.5	14.5	18.0	9.0	17.5	18.0									
1.0µF	9.0	17.5	18.0												

CASE DIMENSIONS (mm) - 22.5mm PITCH

Wound capacitor technology with internal series connection for Vdc≥1250V

Capacitance	Voltage DC/AC																					
	250V/160V			400V/200V			630V/250V			1000V/250V			1250V/500V			1600V/500V			2000V/700V			
	b	h	l	b	h	l	b	h	l	b	h	l	b	h	l	b	h	l	b	h	l	
1.0nF																			6.0	15.0	26.5	
1.5nF																			6.0	15.0	26.5	
2.2nF																			6.0	15.0	26.5	
3.3nF																			6.0	15.0	26.5	
4.7nF																			6.0	15.0	26.5	
6.8nF																6.0	15.0	26.5	8.5	16.5	26.5	
10nF																6.0	15.0	26.5	10.5	16.5	26.5	
15nF																7.0	16.0	26.5	11.0	20.5	26.5	
22nF												6.0	15.0	26.5	8.5	16.5	26.5					
33nF										6.0	15.0	26.5	6.0	15.0	26.5	10.5	16.5	26.5				
47nF										6.0	15.0	26.5	8.5	16.5	26.5	11.0	20.5	26.5				
68nF										6.0	15.0	26.5	10.5	16.5	26.5							
0.1µF							6.0	15.0	26.5	8.5	16.5	26.5	11.0	20.5	26.5							
0.15µF				6.0	15.0	26.5	6.0	15.0	26.5	10.5	16.5	26.5										
0.22µF	6.0	15.0	26.5	6.0	15.0	26.5	8.5	16.5	26.5	11.0	20.5	26.5										
0.33µF	6.0	15.0	26.5	7.0	16.0	26.5	10.5	16.5	26.5													
0.47µF	7.0	16.0	26.5	8.5	16.5	26.5	11.0	20.5	26.5													
0.68µF	8.5	16.5	26.5	10.5	16.5	26.5																
1.0µF	10.5	16.5	26.5	11.0	20.5	26.5																

CASE DIMENSIONS (mm) - 27.5mm PITCH

Wound capacitor technology with internal series connection for Vdc≥1250V

Capacitance	Voltage DC/AC																					
	250V/160V			400V/200V			630V/250V			1000V/250V			1250V/250V			1600V/500V			2000V/700V			
	b	h	l	b	h	l	b	h	l	b	h	l	b	h	l	b	h	l	b	h	l	
22nF																				11.0	21.0	31.5
33nF																				13.5	23.0	31.5
47nF																11.0	21.0	31.5	18.0	27.5	31.5	
68nF																11.0	21.0	31.5	19.0	30.0	31.5	
0.10µF													11.0	21.0	31.5	14.0	24.5	31.5				
0.15µF													11.0	21.0	31.5	18.0	27.5	31.5				
0.22µF											11.0	21.0	31.5	14.0	24.5	31.5						
0.33µF											11.0	21.0	31.5	18.0	27.5	31.5						
0.47µF											14.0	24.5	31.5									
0.68µF							11.0	21.0	31.5	18.0	27.5	31.5										
1.0µF				11.0	21.0	31.5	18.0	27.5	31.5													
1.5µF	11.0	21.0	31.5	12.5	21.5	31.5	18.0	27.5	31.5													
2.2µF	12.5	21.5	31.5	14.0	24.5	31.5																
3.3µF	15.0	24.5	31.5	19.0	30.0	31.5																
4.7µF	18.0	27.5	31.5																			

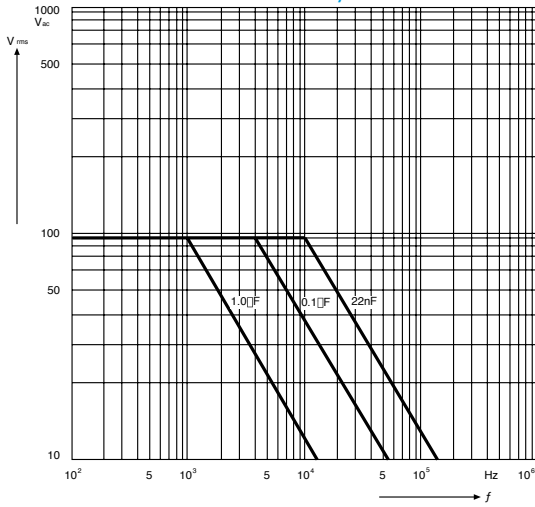
CASE DIMENSIONS (mm) - 37.5mm PITCH

Wound capacitor technology with internal series connection for Vdc≥1250V

Capacitance	Voltage DC/AC					
	1000V/500V			1250V/500V		
	b	h	l	b	h	l
0.33µF				16.0	28.5	41.5
0.47µF	14.0	25.0	41.5	18.0	32.5	41.5
0.68µF	16.0	28.5	41.5	20.0	39.5	41.5
1.0µF	20.0	39.5	41.5			

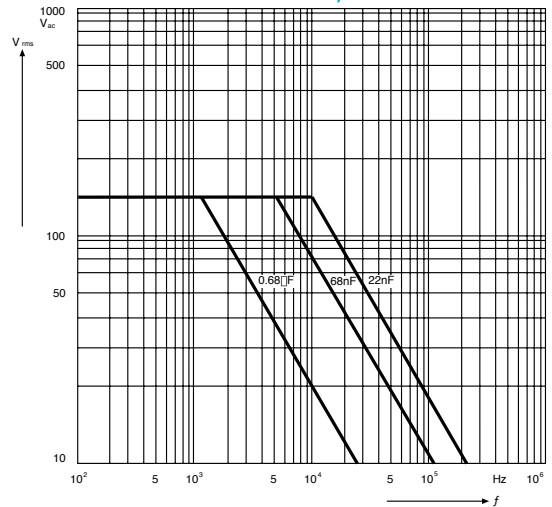
AC VOLTAGE V_{rms} VERSUS FREQUENCY f

7.5mm-15mm PITCH-160Vdc / 90Vac



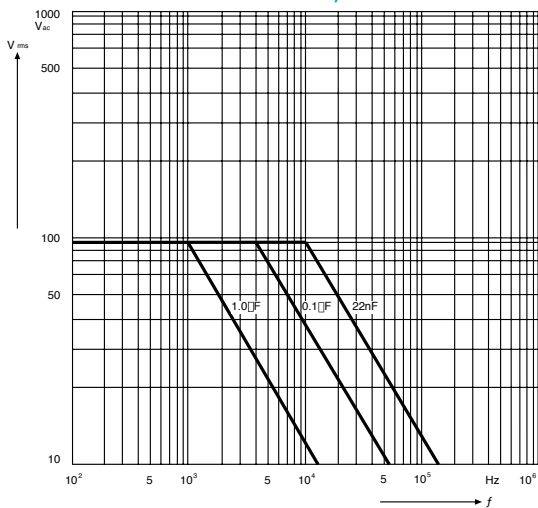
AC VOLTAGE V_{rms} VERSUS FREQUENCY f

7.5mm-15mm PITCH-250Vdc / 140Vac



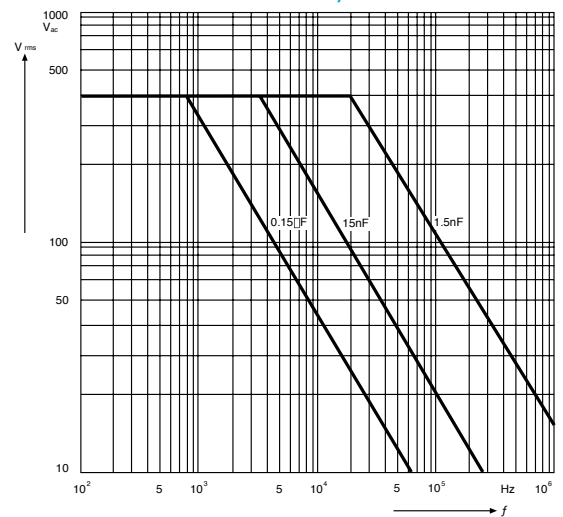
AC VOLTAGE V_{rms} VERSUS FREQUENCY f

7.5mm-15mm PITCH-400Vdc / 200Vac



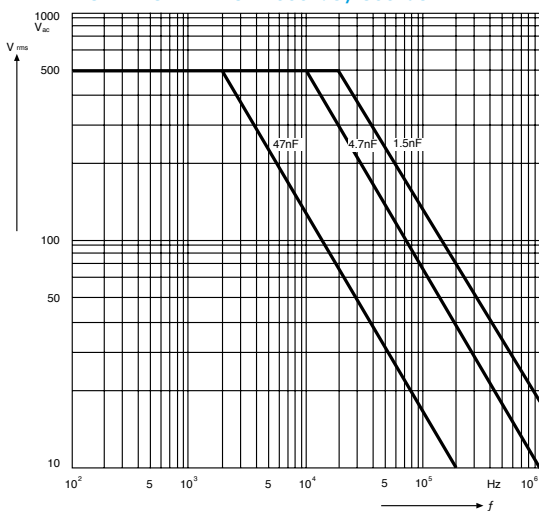
AC VOLTAGE V_{rms} VERSUS FREQUENCY f

7.5mm-15mm PITCH-630Vdc / 400Vac



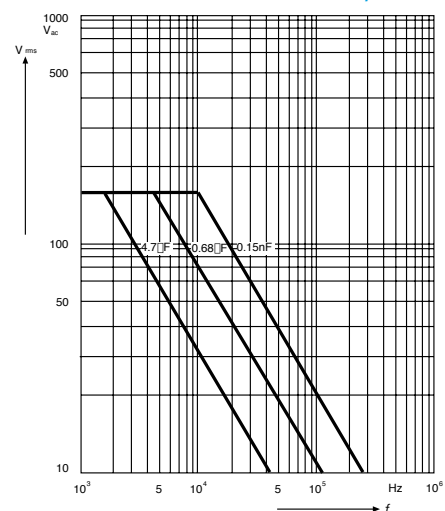
AC VOLTAGE V_{rms} VERSUS FREQUENCY f

7.5mm-15mm PITCH-1000Vdc / 500Vac



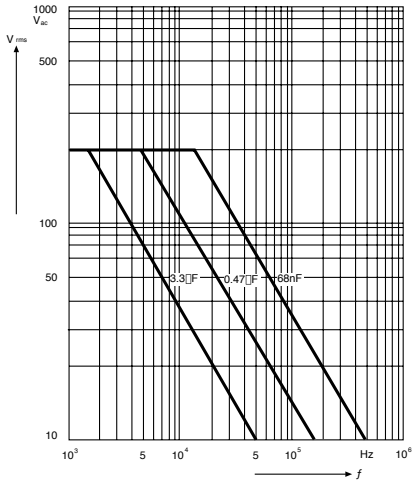
AC VOLTAGE V_{rms} VERSUS FREQUENCY f

22.5mm-37.5mm PITCH-250Vdc / 10Vac



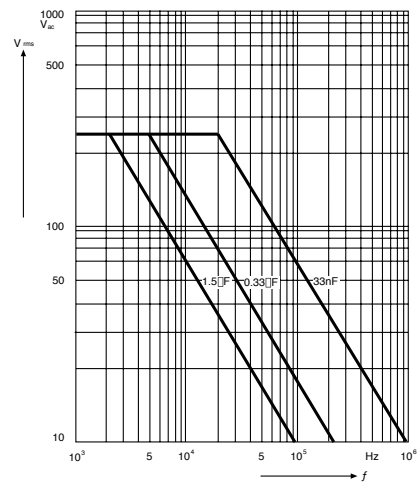
AC VOLTAGE V_{rms} VERSUS FREQUENCY f

22.5mm-35.7mm PITCH-400Vdc / 200Vac



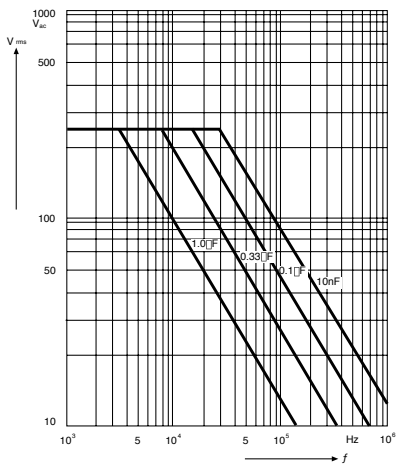
AC VOLTAGE V_{rms} VERSUS FREQUENCY f

22.5mm-37.5mm PITCH-630Vdc / 250Vac



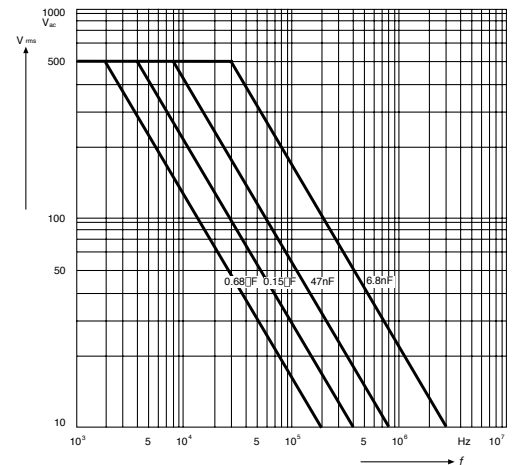
AC VOLTAGE V_{rms} VERSUS FREQUENCY f

22.5mm-37.5mm PITCH-1000Vdc / 250Vac



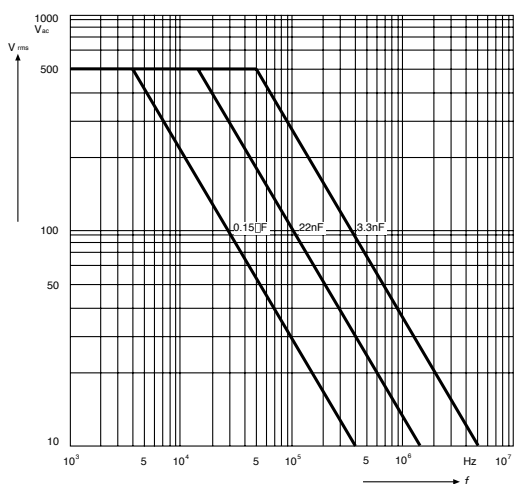
AC VOLTAGE V_{rms} VERSUS FREQUENCY f

22.5mm-37.5mm PITCH-1250Vdc / 500Vac



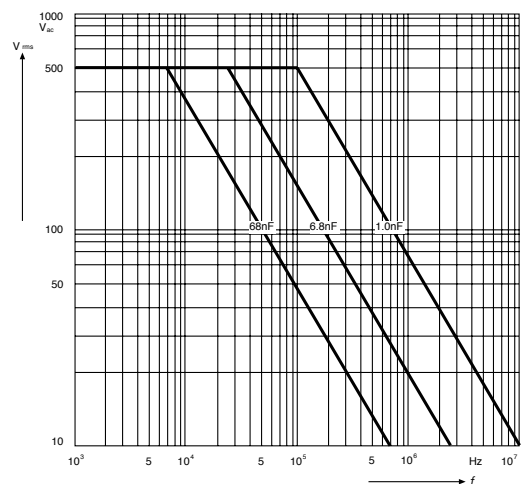
AC VOLTAGE V_{rms} VERSUS FREQUENCY f

22.5mm-37.5mm PITCH-1600Vdc / 500Vac

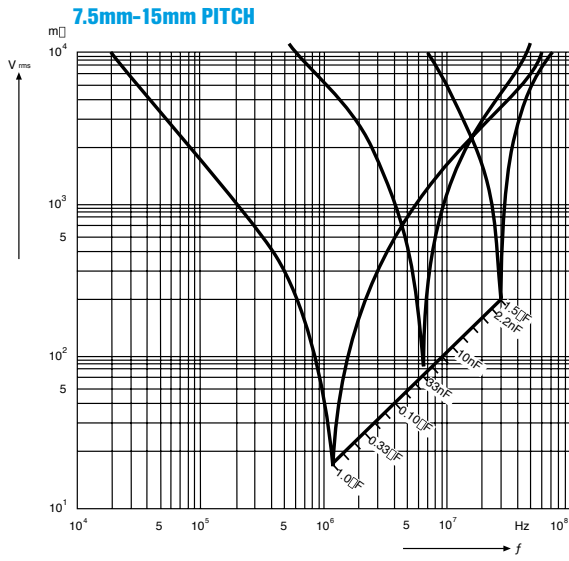


AC VOLTAGE V_{rms} VERSUS FREQUENCY f

22.5mm-37.5mm PITCH-2000Vdc / 700Vac



IMPEDANCE Z VERSUS FREQUENCY F (TYPICAL VALUES)



IMPEDANCE Z VERSUS FREQUENCY F (TYPICAL VALUES)

