# Type 735P, Metallized Polypropylene Film Capacitors

# High Frequency, Wrap and Fill



The 735P series is designed and manufactured for use in many demanding power applications. They are non-inductively wound using the most reliable metallized polypropylene film available. A wide range of capacitance values, voltage ratings, lead terminations and sizes offer the designer an array of options to best meet the form, fit and function requirements specified.

# Highlights

- Excellent AC performance
- Low power dissipation
- Low dielectric absorption
- Low ESR
- Close tolerance
- High stability
- High ripple to 30 A
- Compliant to RoHS directive 2002/95/EC

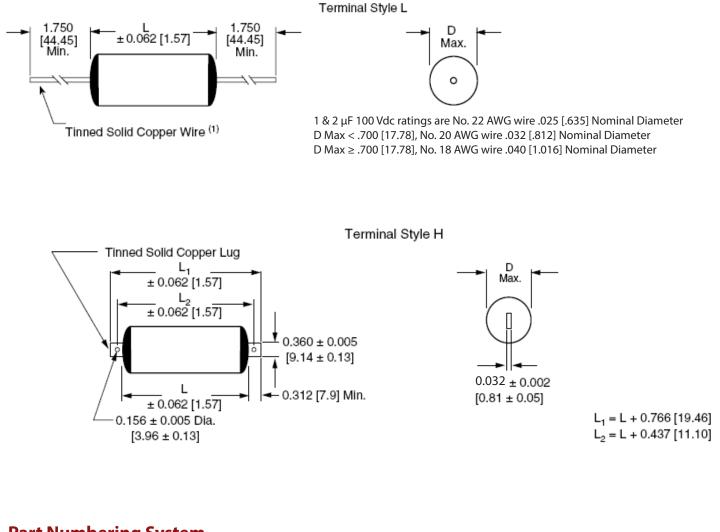
## **Specifications**

Capacitance Range	1.0 to 30.0 µF						
Capacitance Tolerance	±10%, ±5%						
DC Rated Voltage	100 WVdc to 400 WVdc						
Operating Temperature Range	–55 ℃ to 105 ℃						
ESR	20 kHz to 100 kHz						
Dissipation Factor	0.1% maximum - Measure all units at 1000 Hz, at +25 °C $\Delta V/$ $\Delta T:$ 10 V/ms maximum						
Insulation Resistance	Measured at 100 WVDC after a 2 min charge: At +25 °C: 200 000 MΩ/μF or 400 000 MΩ minimum						
DC Voltage Test	200% of rated voltage for 2 minutes						
Vibration Test (Condition B)	No mechanical damage, short, open or intermittent circuits						
DC Life Test	140% of rated voltage for 1000 h at +105 °C. No open or short circuits. No visible damage. Maximum $\Delta$ CAP ±1.0% Minimum IR = 50% of initial limit Maximum DF = 0.10%						
Humidity Test	95% relative humidity at +40 °C for 250 h. No visible damage. Maximum $\Delta$ CAP ±1.0% Minimum IR = 20% of initial limit Maximum DF = 0.12%						
Physical Characteristics	Pull Test Wire Leads: 5 lb (2.3 g) for one min. No physical damage. Terminal Lugs: -10 lb (4.5 kg) for one min. No physical damage. Lead Bend: After three complete consecutive bend. No damage. Marking: Type or part number, capacitance and voltage.						
RoHS	Compliant						

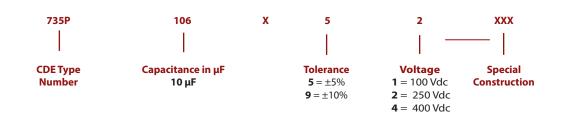
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#### Dimensions



### **Part Numbering System**



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CAPACITANCE	Catalog Part	Case Size	ESR (mΩ)			(Ar	Maximum Ripple Current (Arms ) at 20 Khz Case Temperature <sup>(2)</sup> at				
		D	L	20 Khz	+25°C	+35°C		+55°C	+65°C	+75℃	+85°
(μF)	Number	Inches [MM]	Inches [MM]	to 100 Khz							
4.7				100 VD0	2						
1.0	735P105X9100L	0.531 [13.49]	0.750 [19.05]	15.0	9.2	8.5	7.8	7.0	6.0	4.9	4.5
2.0	735P205X9100L	0.596 [15.14]	0.938 [23.81]	12.0	10.8	10.0	9.1	8.2	7.0	5.8	5.3
3.0	735P305X9100L		0.938 [23.81]	11.0	12.1	11.2	10.3	9.2	8.0	6.5	5.9
5.0	735P505X9100L		1.250 [31.75]	10.0	13.8	12.7	11.6	10.4	9.0	7.4	6.7
10.0	735P106X9100L		1.500 [38.10]	9.0	15.0	15.0	14.2	12.7	11.0	9.0	8.2
20.0	735P206X9100L		2.250 [57.15]	8.0	15.0	15.0	15.0	15.0	13.6	11.1	10.0
30.0	735P306X9100L		2.250 [57.15]	6.0	15.0	15.0	15.0	15.0	15.0	12.4	11.4
	/ 00/ 000/// 1002		21200 [07110]	200 VD(							
1.0	735P105X9200L	0 512 [13 01]	1.250 [31.75]	20.0	7.3	7.3	7.3	7.3	7.2	5.9	5.4
2.0	735P205X9200L		1.250 [31.75]	15.0	12.0	12.0	11.3	10.1	8.7	7.1	6.5
3.0	735P305X9200L		1.500 [38.10]	13.0	15.0	13.8	12.6	11.3	9.8	8.0	7.3
5.0	735P505X9200L		1.750 [44.45]	11.0	15.0	15.0	14.7	13.1	11.4	9.3	8.5
10.0	735P106X9200L		2.250 [57.15]	9.0	15.0	15.0	15.0	15.0	13.8	11.3	10.3
20.0	735P206X9200L		2.250 [57.15]	6.0	15.0	15.0	15.0	15.0	15.0	14.1	12.8
20.0	755120002002	[00.00]	2.230 [37.13]	400 VD		15.0	15.0	15.0	15.0		12.
1.0	735P105X9400L	0 713 [18 11]	1.500 [38.10]	19.0	9.5	9.5	9.5	9.5	9.5	7.8	7.1
2.0	735P205X9400L		1.750 [44.45]	15.0	15.0	15.0	15.0	13.4	11.6	9.5	8.7
3.0	735P305X9400L		1.750 [44.45]	12.0	15.0	15.0	15.0	15.0	13.1	10.7	9.8
5.0	735P505X9400L		2.250 [57.15]	12.0	15.0	15.0	15.0	15.0	15.0	12.5	11.4
10.0	735P106X9400L		2.250 [57.15]	6.0	15.0	15.0	15.0	15.0	15.0	12.5	14.
10.0	733F100A9400L	1.000 [42.57]	Terminal Styl				15.0	13.0	15.0	15.0	
			Terminal Styr	100 VD0		iai Lugs					
1.0	735P105X9100H	0 531 [13 49]	0.875 [22.23]	15.0	10.3	9.5	8.7	7.8	6.7	5.5	5.0
2.0	735P205X9100H		1.062 [26.97]	12.0	12.0	11.0	10.0	8.9	7.8	6.3	5.8
3.0	735P305X9100H			12.0	13.3	12.3	11.2	10.0	8.7	7.1	6.5
5.0	735P505X9100H		1.375 [34.93]	10.0	14.8	13.7	12.5	11.2	9.7	7.9	7.2
10.0	735P106X9100H		1.625 [41.28]	9.0	17.8	16.5	15.0	13.5	9.7 11.7	9.5	8.7
20.0	735P206X9100H		2.375 [60.33]	9.0 8.0	21.6	20.0	18.3	16.4	14.2	9.5 11.6	10.0
30.0	735P306X9100H		2.375 [60.33]	6.0	24.3						11.9
50.0	7558200791000	1.200 [30.46]	2.375 [00.35]	200 VD		22.5	20.5	18.4	15.9	13.0	
1.0	735P105X9200H	0 512 [12 00]	1.375 [34.93]			7.3	7.3	7.3	7.3	6.4	5.8
2.0	735P105X9200H		1.375 [34.93]	20.0 15.0	7.3 14.3	13.3	7.3	7.3 10.8	7.3 9.4	0.4 7.7	5.8 7.0
3.0	735P205X9200H 735P305X9200H		1.625 [41.28]	13.0	14.3	13.3	12.1	10.8	9.4 10.4	8.5	7.0
5.0			1.875 [41.28]							8.5 9.8	7.8 8.9
5.0 10.0	735P505X9200H 735P106X9200H		2.375 [60.33]	11.0 9.0	18.3 22.4	17.0 20.7	15.5 18.9	13.9 16.9	12.0 14.6	9.8 12.0	8.9 10.9
20.0											
20.0	735P206X9200H	1.440 [30.58]	2.375 [60.33]	6.0	27.4	25.4	23.2	20.7	17.9	14.7	13.4
1.0	725D105V04001	0 712 [10 11]	1 625 [41 20]	400 VD0		0.5	0.5		0.5	0.2	
1.0	735P105X9400H		1.625 [41.28]	19.0	9.5	9.5 15 0	9.5 15 0	9.5	9.5	8.3	7.5
2.0	735P205X9400H		1.875 [47.63]	15.0	15.0	15.0	15.0	14.2	12.3	10.0	9.1
3.0	735P305X9400H	1.086 [27.58]		12.0	21.1	19.5	17.8	15.9	13.8	11.3	10.3
5.0	735P505X9400H		2.375 [60.33]	10.0	24.4	22.6	20.6	18.5	16.0	13.1	11.9
10.0	735P106X9400H	1.668 [42.37]	2.375 [60.33]	6.0	30.0	27.8	25.4	22.7	19.7	16.1	14.7

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