



Type 430P Round Wrap-and-Fill Metallized Polyester Film Capacitors

Performance Characteristics

Capacitance Range:

0.0047 to 10.0 μF

Capacitance Tolerance:

$\pm 20\%$, $\pm 10\%$, $\pm 5\%$

Voltage Rating:

50 to 600 VDC

Operating Temperature

Units may be operated at full rated

voltage from -55°C to $+85^{\circ}\text{C}$

Dissipation Factor: 1.0% maximum

Voltage Test: 200% of rated voltage for 2 Min.

Insulation Resistance:

At $+25^{\circ}\text{C}$: 50,000 $\text{M}\Omega$ Minimum or

25,000 $\text{M}\Omega\text{-}\mu\text{F}$

At $+85^{\circ}\text{C}$: 2500 $\text{M}\Omega$ Minimum or

1000 $\text{M}\Omega\text{-}\mu\text{F}$

Encapsulation:

Wrapped with flame retardant polyester tape (meets UL510 specifications) and potted with flame retardant epoxy (meets UL94V-0 specifications).

Dielectric/Construction:

Metallized Polyester film, single

section design. Non-Inductively wound.

DC Life Test: 125% of rated voltage for 250 hours @ $+85^{\circ}\text{C}$. No Open or short circuits & no visible Damage.

Maximum Δ Cap $\pm 10.0\%$

Minimum IR = 50% of Initial Limit

Maximum DF = 1.25%

Humidity Test: 95% RH @ 40°C for 250 hours. No visible Damage.

Maximum Δ Cap $\pm 10.0\%$

Minimum IR = 20% of initial limit

Maximum DF = 2.0%

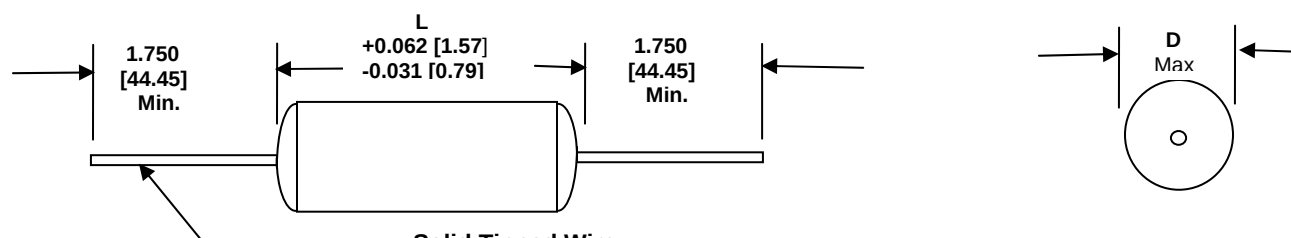
Lead Pull: 5 lbs (2.3Kg) for one minute. No physical Damage.

Lead Bend: After 3 complete consecutive bends. No Damage.

Marking: SBE, Type or Part number, Capacitance and Voltage.

RoHs Compliant

DIMENSIONS in inches [millimeters]



Solid Tinned Wire

0.032 [0.81] Nominal Dia. (No. 20 AWG) for $D_{\text{max}} > 0.270$ [6.86]

0.025 [0.64] Nominal Dia. (No. 22 AWG) for $D_{\text{max}} < 0.270$ [6.86]

- Leads to be within ± 0.062 " [1.57mm] of center line at egress but not less than 0.031" [0.79mm] from edge.

STANDARD RATINGS in inches [millimeters]

STANDARD RATINGS in inches [millimeters]				LEAD
Capacitance (uF)	Part Number**	CASE SIZE		AWG NO.
	± 10% Tolerance	D	L	
50 WVDC				
0.12	430P124X9050	0.196 [4.98]	0.625 [15.88]	22
0.15	430P154X9050	0.210 [5.33]	0.625 [15.88]	22
0.18	430P184X9050	0.223 [5.66]	0.625 [15.88]	22
0.22	430P224X9050	0.240 [6.10]	0.625 [15.88]	22
0.27	430P274X9050	0.258 [6.55]	0.625 [15.88]	22
0.33	430P334X9050	0.279 [7.09]	0.625 [15.88]	20
0.39	430P394X9050	0.250 [6.35]	0.750 [19.05]	22
0.47	430P474X9050	0.269 [6.83]	0.750 [19.05]	22
0.56	430P564X9050	0.288 [7.32]	0.750 [19.05]	20
0.68	430P684X9050	0.311 [7.90]	0.750 [19.05]	20
0.82	430P824X9050	0.270 [6.86]	1.000 [25.40]	20

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STANDARD RATINGS in inches [millimeters]				
Capacitance (uF)	Part Number**	CASE SIZE		LEAD
		D	L	AWG NO.
50 WVDC				
1.0	430P105X9050	0.291 [7.39]	1.000 [25.40]	20
1.5	430P155X9050	0.344 [8.74]	1.000 [25.40]	20
2.0	430P205X9050	0.400 [10.16]	1.000 [25.40]	20
2.5	430P255X9050	0.438 [11.13]	1.000 [25.40]	20
3.0	430P305X9050	0.398 [10.11]	1.250 [31.75]	20
4.0	430P405X9050	0.434 [11.02]	1.500 [38.10]	20
5.0	430P505X9050	0.476 [12.09]	1.500 [38.10]	20
6.0	430P605X9050	0.515 [13.08]	1.500 [38.10]	20
7.0	430P705X9050	0.551 [14.00]	1.500 [38.10]	20
10.0	430P106X9050	0.647 [16.43]	1.500 [38.10]	20
100 WVDC				
0.082	430P823X9100	0.192 [4.88]	0.625 [15.88]	22
0.1	430P104X9100	0.204 [5.18]	0.625 [15.88]	22
0.12	430P124X9100	0.216 [5.49]	0.625 [15.88]	22
0.15	430P154X9100	0.233 [5.92]	0.625 [15.88]	22
0.18	430P184X9100	0.213 [5.41]	0.750 [19.05]	22
0.22*	430P224X9100	0.228 [5.79]	0.750 [19.05]	22
0.27	430P274X9100	0.245 [6.22]	0.750 [19.05]	22
0.33*	430P334X9100	0.264 [6.71]	0.750 [19.05]	22
0.39	430P394X9100	0.230 [5.84]	1.000 [25.40]	22
0.47	430P474X9100	0.246 [6.25]	1.000 [25.40]	22
0.56	430P564X9100	0.262 [6.65]	1.000 [25.40]	22
0.68	430P684X9100	0.283 [7.19]	1.000 [25.40]	20
0.82	430P824X9100	0.265 [6.73]	1.250 [31.75]	20
1.0*	430P105X9100	0.286 [7.26]	1.250 [31.75]	20
1.5	430P155X9100	0.351 [8.92]	1.250 [31.75]	20
2.0*	430P205X9100	0.393 [9.98]	1.250 [31.75]	20
2.5	430P255X9100	0.430 [10.92]	1.250 [31.75]	20
3.0	430P305X9100	0.464 [11.79]	1.250 [31.75]	20
4.0	430P405X9100	0.494 [12.55]	1.500 [38.10]	20
5.0	430P505X9100	0.544 [13.82]	1.500 [38.10]	20
6.0	430P605X9100	0.591 [15.01]	1.500 [38.10]	20
7.0*	430P705X9100	0.633 [16.08]	1.500 [38.10]	20
10.0	430P106X9100	0.678 [17.22]	1.750 [44.45]	20
200WVDC				
0.047	430P473X9200	0.200 [5.08]	0.625 [15.88]	22
0.056	430P563X9200	0.211 [5.36]	0.625 [15.88]	22
0.068	430P683X9200	0.225 [5.72]	0.625 [15.88]	22
0.082	430P823X9200	0.240 [6.10]	0.625 [15.88]	22
0.10*	430P104X9200	0.221 [5.61]	0.750 [19.05]	22
0.12	430P124X9200	0.234 [5.94]	0.750 [19.05]	22
0.15	430P154X9200	0.254 [6.45]	0.750 [19.05]	22
0.18	430P184X9200	0.272 [6.91]	0.750 [19.05]	22
0.22*	430P224X9200	0.295 [7.49]	0.750 [19.05]	22
0.27	430P274X9200	0.258 [6.55]	1.000 [25.40]	22
0.33	430P334X9200	0.279 [7.09]	1.000 [25.40]	20
0.39	430P394X9200	0.298 [7.57]	1.000 [25.40]	20
0.47*	430P474X9200	0.321 [8.15]	1.000 [25.40]	20
0.56	430P564X9200	0.345 [8.76]	1.000 [25.40]	20
0.68*	430P684X9200	0.375 [9.53]	1.000 [25.40]	20
0.82	430P824X9200	0.350 [8.89]	1.250 [31.75]	20
1.0*	430P105X9200	0.380 [9.65]	1.250 [31.75]	20
1.5	430P155X9200	0.454 [11.53]	1.250 [31.75]	20
2.0*	430P205X9200	0.469 [11.91]	1.500 [38.10]	20
2.5	430P255X9200	0.516 [13.11]	1.500 [38.10]	20
3.0	430P305X9200	0.559 [14.20]	1.500 [38.10]	20
4.0*	430P405X9200	0.580 [14.73]	1.750 [44.45]	20
5.0	430P505X9200	0.641 [16.28]	1.750 [44.45]	20

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STANDARD RATINGS in inches [millimeters]				
Capacitance (uF)	Part Number**	CASE SIZE		LEAD
		D	L	AWG NO.
400 WVDC				
0.015	430P153X9400	0.186 [4.72]	0.625 [15.88]	22
0.018	430P183X9400	0.197 [5.00]	0.625 [15.88]	22
0.022	430P223X9400	0.210 [5.33]	0.625 [15.88]	22
0.027	430P273X9400	0.224 [5.69]	0.625 [15.88]	22
0.033	430P333X9400	0.241 [6.12]	0.625 [15.88]	22
0.039	430P393X9400	0.256 [6.50]	0.625 [15.88]	22
0.047	430P473X9400	0.275 [6.99]	0.625 [15.88]	20
0.056	430P563X9400	0.248 [6.30]	0.750 [19.05]	22
0.068	430P683X9400	0.266 [6.76]	0.750 [19.05]	22
0.082	430P823X9400	0.286 [7.26]	0.750 [19.05]	20
0.10*	430P104X9400	0.310 [7.87]	0.750 [19.05]	20
0.12	430P124X9400	0.268 [6.81]	1.000 [25.40]	22
0.15	430P154X9400	0.293 [7.44]	1.000 [25.40]	20
0.18	430P184X9400	0.315 [8.00]	1.000 [25.40]	20
0.22	430P224X9400	0.342 [8.69]	1.000 [25.40]	20
0.27	430P274X9400	0.322 [8.18]	1.250 [31.75]	20
0.33	430P334X9400	0.350 [8.89]	1.250 [31.75]	20
0.39	430P394X9400	0.337 [8.56]	1.500 [38.10]	20
0.47	430P474X9400	0.364 [9.25]	1.500 [38.10]	20
0.56	430P564X9400	0.393 [9.98]	1.500 [38.10]	20
0.68	430P684X9400	0.402 [10.21]	1.750 [44.45]	20
0.82	430P824X9400	0.434 [11.02]	1.750 [44.45]	20
1.0	430P105X9400	0.472 [11.99]	1.750 [44.45]	20
1.5	430P155X9400	0.563 [14.30]	1.750 [44.45]	20
2.0	430P205X9400	0.640 [16.26]	1.750 [44.45]	20
600 WVDC				
0.0047	430P472X9600	0.187 [4.75]	0.625 [15.88]	22
0.0056	430P562X9600	0.197 [5.00]	0.625 [15.88]	22
0.0068	430P682X9600	0.209 [5.31]	0.625 [15.88]	22
0.0082	430P822X9600	0.223 [5.66]	0.625 [15.88]	22
0.01	430P103X9600	0.239 [6.07]	0.625 [15.88]	22
0.012	430P123X9600	0.255 [6.48]	0.625 [15.88]	22
0.015	430P153X9600	0.224 [5.69]	0.750 [19.05]	22
0.018	430P183X9600	0.239 [6.07]	0.750 [19.05]	22
0.022	430P223X9600	0.257 [6.53]	0.750 [19.05]	22
0.027	430P273X9600	0.278 [7.06]	0.750 [19.05]	20
0.033	430P333X9600	0.300 [7.62]	0.750 [19.05]	20
0.039	430P393X9600	0.251 [6.38]	1.000 [25.40]	22
0.047	430P473X9600	0.269 [6.83]	1.000 [25.40]	22
0.056	430P563X9600	0.288 [7.32]	1.000 [25.40]	20
0.068	430P683X9600	0.311 [7.90]	1.000 [25.40]	20
0.082	430P823X9600	0.336 [8.53]	1.000 [25.40]	20
0.10*	430P104X9600	0.365 [9.27]	1.000 [25.40]	20
0.12	430P124X9600	0.335 [8.51]	1.250 [31.75]	20
0.15	430P154X9600	0.368 [9.35]	1.250 [31.75]	20
0.18	430P184X9600	0.354 [8.99]	1.500 [38.10]	20
0.22*	430P224X9600	0.385 [9.78]	1.500 [38.10]	20
0.27	430P274X9600	0.421 [10.69]	1.500 [38.10]	20
0.33	430P334X9600	0.428 [10.87]	1.750 [44.45]	20
0.39	430P394X9600	0.459 [11.66]	1.750 [44.45]	20
0.47*	430P474X9600	0.497 [12.62]	1.750 [44.45]	20
0.56	430P564X9600	0.537 [13.64]	1.750 [44.45]	20
0.68	430P684X9600	0.585 [14.86]	1.750 [44.45]	20

Ordering Information

430P
Type124
CAPACITANCE

This is expressed in picofarads. The first two digits are the significant figures. The third is the number of Zeros to follow.

X9
CAPACITANCE
TOLERANCE

X0 = $\pm$ 20%
X9 = $\pm$ 10%
X5 = $\pm$ 5%

100
DC VOLTAGE RATING

This is expressed in volts.