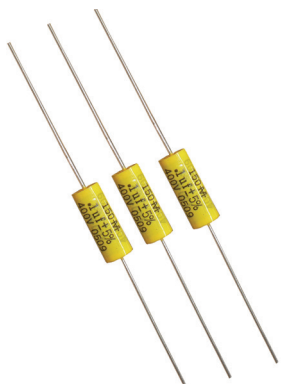


# Type 150 Axial Leaded Metallized Polyester

## Flame Retardant Wrap and Fill Axial Leaded Capacitors



The Type 150 series axial lead metallized polyester non inductive capacitors are available in bulk or on tape and reel for automatic insertion. Type 150 is a general purpose capacitor for use in blocking, bypass, decoupling, smoothing and some timing applications.

### Highlights

- Available on tape and reel or bulk
- Epoxy end fill meets UL94V-0
- Non inductively wound
- Flame retardant outer wrap meets UL510
- Non polar

### Specifications

Capacitance Range	0.001 $\mu$ F to 10.0 $\mu$ F																																																						
Capacitance Tolerance	$\pm$ 5%, $\pm$ 10%, $\pm$ 20%																																																						
Rated Voltage	63 to 1000 Vdc																																																						
Operating Temperature Range	-55 $^{\circ}$ C to +125 $^{\circ}$ C (derate linearly to 50% rated voltage at 125 $^{\circ}$ C)																																																						
Maximum DC Leakage Current	After 2 minutes, with rated voltage at +20 $^{\circ}$ C 6.3 to 100 Vdc $I = .01CV$ or 3 $\mu$ A Max (whichever is greater) $\geq 160$ Vdc after 3 min, with rated voltage at +20 $^{\circ}$ C $I = .03CV$ or 10 $\mu$ A Max (whichever is greater) C = Capacitance in ( $\mu$ F) V = Rated voltage I = Leakage current in $\mu$ A																																																						
Dielectric Withstand Voltage	1.6 x rated voltage for 2 s @ +25 $^{\circ}$ C $\pm$ 5 $^{\circ}$ C																																																						
Dissipation Factor @ 120 Hz, +25 $^{\circ}$ C	$tg\delta \times 10^{-4}$ at +25 $^{\circ}$ C $\pm$ 5 $^{\circ}$ C <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>kHz</th> <th>C <math>\leq</math> 0.1 <math>\mu</math>F</th> <th>0.1 <math>\mu</math>F &lt; C <math>\leq</math> 1 <math>\mu</math>F</th> <th>C &gt; 1 <math>\mu</math>F</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>80</td> <td>80</td> <td>100</td> </tr> <tr> <td>10</td> <td>150</td> <td>150</td> <td>—</td> </tr> <tr> <td>100</td> <td>250</td> <td>—</td> <td>—</td> </tr> </tbody> </table>	kHz	C $\leq$ 0.1 $\mu$ F	0.1 $\mu$ F < C $\leq$ 1 $\mu$ F	C > 1 $\mu$ F	1	80	80	100	10	150	150	—	100	250	—	—																																						
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Insulation Resistance	10,000 M $\Omega$ x $\mu$ F, 30,000 M $\Omega$ Min.																																																						
Self Inductance	1 nH max. per 1 mm lead and body length																																																						
Life Test Damp Heat Test Soldering Long Term Storage Stability	1000 hrs @ 85 $^{\circ}$ C 1.25 x Vn 95% RH @ +45 $^{\circ}$ C for 21 days 260 $^{\circ}$ C $\pm$ 5 $^{\circ}$ C for 10 s $\pm$ 1 s $\Delta C/C \leq \pm$ 3% after 2 years																																																						
Maximum Pulse Rise Time dv/dt and Pulse Characteristic (Wo)	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="2">V/n</th> <th colspan="4">L Max</th> </tr> <tr> <th>16.5</th> <th>19 - 20.5</th> <th>26.5 - 5.28</th> <th>31.5 - 33</th> </tr> </thead> <tbody> <tr> <td rowspan="2">50 - 63</td> <td>4</td> <td>2</td> <td>1.5</td> <td>1</td> </tr> <tr> <td>504</td> <td>252</td> <td>189</td> <td>126</td> </tr> <tr> <td rowspan="2">100</td> <td>5</td> <td>3</td> <td>2</td> <td>1</td> </tr> <tr> <td>1,000</td> <td>600</td> <td>400</td> <td>300</td> </tr> <tr> <td rowspan="2">250</td> <td>10</td> <td>7</td> <td>4</td> <td>2.5</td> </tr> <tr> <td>5,000</td> <td>3,500</td> <td>2,000</td> <td>1,250</td> </tr> <tr> <td rowspan="2">400</td> <td>13.5</td> <td>10</td> <td>6.5</td> <td>4</td> </tr> <tr> <td>10,800</td> <td>8,000</td> <td>5,200</td> <td>3,200</td> </tr> <tr> <td rowspan="2">630</td> <td>20</td> <td>15</td> <td>10</td> <td>6</td> </tr> <tr> <td>25,200</td> <td>18,900</td> <td>12,600</td> <td>7,500</td> </tr> </tbody> </table>	V/n	L Max				16.5	19 - 20.5	26.5 - 5.28	31.5 - 33	50 - 63	4	2	1.5	1	504	252	189	126	100	5	3	2	1	1,000	600	400	300	250	10	7	4	2.5	5,000	3,500	2,000	1,250	400	13.5	10	6.5	4	10,800	8,000	5,200	3,200	630	20	15	10	6	25,200	18,900	12,600	7,500
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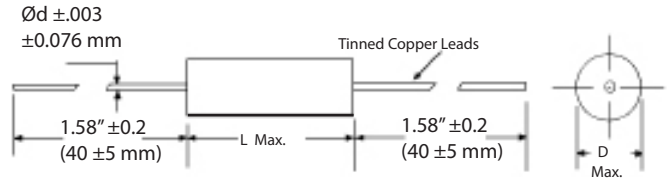
## Tape and Reel Specifications

## Outline Drawing

L Max (Body Lengthy)		Lead Spacing		Distance Between Reel Flanges		Class
Inches	mm	Inches	mm	Inches	mm	
≤.433	≤11	2.06	52.4	3	75	1
.551 - .808	14 - 20.5	2.5	63.6	3.4	86	2
≥1.03	≥26	2.87	73	3.7	95	3

^Add class number (1, 2, or 3) to catalog number to indicate tape and reel

Diameter		Quantity per Reel
Inches	mm	
0.197	5	3,000
.236 thru .256	6.0 thru 6.5	1,200
0.276	7	1,100
.315 thru .346	8 thru 8.5	800
.354 thru .413	9 thru 10.5	500
.433 thru .512	11 thru 13	300
.551 thru .571	14 thru 14.5	200
>.571	>14.5	Not available



## Ratings

Catalog Part Number	Cap (µF)	Inches Max			Millimeters Max		
		D	L	Ød	D	L	Ød
<b>63 Vdc</b>							
150154*63AA^	0.150	0.197	0.433	0.024	5.0	11.0	0.6
150154*63BB^	0.150	0.236	0.650	0.024	6.0	16.5	0.6
150184*63AA^	0.180	0.197	0.433	0.024	5.0	11.0	0.6
150184*63BB^	0.180	0.236	0.650	0.024	6.0	16.5	0.6
150224*63BB^	0.220	0.236	0.650	0.024	6.0	16.5	0.6
150274*63BB^	0.270	0.236	0.650	0.024	6.0	16.5	0.6
150334*63BB^	0.330	0.236	0.650	0.024	6.0	16.5	0.6
150394*63CB^	0.390	0.256	0.650	0.024	6.5	16.5	0.6
150474*63DB^	0.470	0.276	0.650	0.024	7.0	16.5	0.6
150564*63DB^	0.560	0.276	0.650	0.024	7.0	16.5	0.6
150684*63DC^	0.680	0.276	0.807	0.024	7.0	20.5	0.6
150824*63EC^	0.820	0.315	0.807	0.031	8.0	20.5	0.8
150105*63EC^	1.000	0.315	0.807	0.031	8.0	20.5	0.8
150155*63HC^	1.500	0.374	0.807	0.031	9.5	20.5	0.8
150225*63HE^	2.200	0.374	1.102	0.031	9.5	28.0	0.8
150335*63KE^	3.300	0.433	1.102	0.031	11.0	28.0	0.8
150475*63ME^	4.700	0.492	1.102	0.031	12.5	28.0	0.8
150685*63QF^	6.800	0.571	1.299	0.031	14.5	33.0	0.8
150106*63TF^	10.000	0.610	1.299	0.031	15.5	33.0	0.8
<b>100 Vdc</b>							
150683*100AA^	0.068	0.197	0.433	0.024	5.0	11.0	0.6
150683*100BB^	0.068	0.236	0.650	0.024	6.0	16.5	0.6
150823*100AA^	0.082	0.197	0.433	0.024	5.0	11.0	0.6
150823*100BB^	0.082	0.236	0.650	0.024	6.0	16.5	0.6
150104*100AA^	0.100	0.197	0.433	0.024	5.0	11.0	0.6
150104*100BB^	0.100	0.236	0.650	0.024	6.0	16.5	0.6
150124*100BB^	0.120	0.236	0.650	0.024	6.0	16.5	0.6
150154*100BB^	0.150	0.236	0.650	0.024	6.0	16.5	0.6
150184*100CB^	0.180	0.256	0.650	0.024	6.5	16.5	0.6
150224*100CB^	0.220	0.256	0.650	0.024	6.5	16.5	0.6

Catalog Part Number	Cap (µF)	Inches Max			Millimeters Max		
		D	L	Ød	D	L	Ød
150274*100CB^	0.270	0.256	0.650	0.024	6.5	16.5	0.6
150334*100EB^	0.330	0.315	0.650	0.031	8.0	16.5	0.8
150394*100EB^	0.390	0.315	0.650	0.031	8.0	16.5	0.8
150474*100DC^	0.470	0.276	0.807	0.031	7.0	20.5	0.8
150564*100EC^	0.560	0.315	0.807	0.031	8.0	20.5	0.8
150684*100FC^	0.680	0.335	0.807	0.031	8.5	20.5	0.8
150824*100HC^	0.820	0.374	0.807	0.031	9.5	20.5	0.8
150105*100IC^	1.000	0.394	0.807	0.031	10.0	20.5	0.8
<b>100 Vdc</b>							
150155*100IE^	1.500	0.394	1.102	0.031	10.0	28.0	0.8
150225*100LE^	2.200	0.453	1.102	0.031	11.5	28.0	0.8
150335*100PE^	3.300	0.531	1.102	0.031	13.5	28.0	0.8
150475*100RF^	4.700	0.591	1.299	0.031	15.0	33.0	0.8
150685*100WF^	6.800	0.689	1.299	0.031	17.5	33.0	0.8
150106*100YF^	10.000	0.807	1.299	0.031	20.5	33.0	0.8
<b>250 Vdc</b>							
150123*250AA^	0.012	0.197	0.433	0.024	5.0	11.0	0.6
150123*250BB^	0.012	0.236	0.650	0.024	6.0	16.5	0.6
150153*250AA^	0.015	0.197	0.433	0.024	5.0	11.0	0.6
150153*250BB^	0.015	0.236	0.650	0.024	6.0	16.5	0.6
150183*250AA^	0.018	0.197	0.433	0.024	5.0	11.0	0.6
150183*250BB^	0.018	0.236	0.650	0.024	6.0	16.5	0.6
150223*250AA^	0.022	0.197	0.433	0.024	5.0	11.0	0.6
150223*250BB^	0.022	0.236	0.650	0.024	6.0	16.5	0.6
150273*250AA^	0.027	0.197	0.433	0.024	5.0	11.0	0.6
150273*250BB^	0.027	0.236	0.650	0.024	6.0	16.5	0.6

\* Indicates capacitance tolerance

^If ordering tape and reel,

J = ±5%, K = ±10%, M = ±20%

insert 1, 2, or 3.

See tape & reel specifications to determine which class applies.

Part Number highlighted in yellow, available until stock is depleted.

Replacement part number with "BB" case size.

Part Number highlighted in green - OBSOLETE

Part number highlighted in light yellow, available until stock is depleted, no replacement





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[150224J630LE](#) [150103J630BB](#) [150104J630FE](#) [150473J630EC](#) [150334J400IE](#) [150473K400DB](#) [150474K630RF](#)  
[150225J250PF](#) [150334J250FC](#) [150224J400FE](#) [150105J250JE](#) [150104J400EC](#) [150105K250JE](#) [150474J400LF](#)  
[150474J250HC](#) [150474J100DC](#) [150105J100IC](#) [150223K400BB](#) [150474J630RF](#) [150472K1000DB](#) [150683K630GC](#)  
[150472J1000DB](#) [150333K630EC](#) [150225K100LE](#) [150104K630FE](#) [150684K100FC](#) [150223K630DB](#) [150333J630EC](#)  
[150224K630LE](#) [150823K630HC](#) [150224K400FE](#) [150155K250ME](#) [150683J630GC](#) [150105K400QF](#) [150225J100LE](#)  
[150223J400BB](#) [150105J63EC](#) [150334K400IE](#) [150474K100DC](#) [150105K63EC](#) [150823J630HC](#) [150105J630YF](#)  
[150474K400LF](#) [150105J400QF](#) [150335J250TF](#) [150335K250TF](#) [150334K250FC](#) [150333K400BB](#) [150394K400JE](#)  
[150333J400BB](#) [150155J250ME](#) [150102J630BB](#) [150473K250BB](#) [150103K400BB](#) [150123J400BB](#) [150472J630BB](#)  
[150102K630BB](#) [150223J250BB](#) [150123K400BB](#) [150222K630BB](#) [150222J630BB](#) [150563J250BB](#) [150332J630BB](#)  
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[150333K250BB](#) [150333J250BB](#) [150473J250BB](#) [150334K250FC2](#) [150474J250HC-PB](#) [150105K100IC](#)  
[150225K250PF](#)