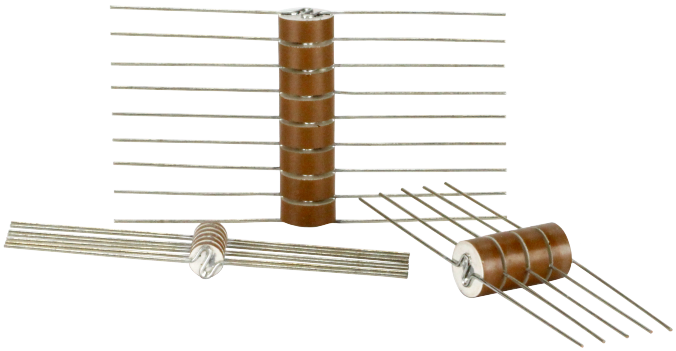
ST1 Series

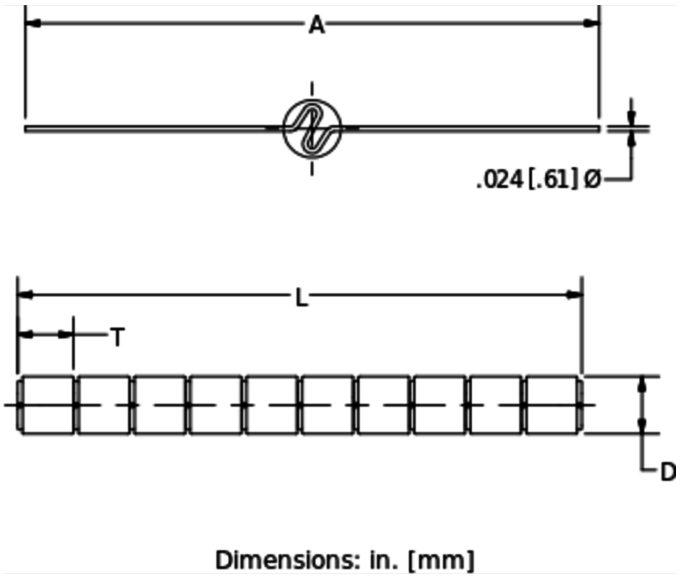
Capacitor Stacks with Leads
6 kV to 12 kV, 250 to 1,000 pF, Class II

Features:

- Small and compact design
- Silver plated electrodes
- Use in oil or encapsulated
- Multiple configurations standard
- Custom versions available

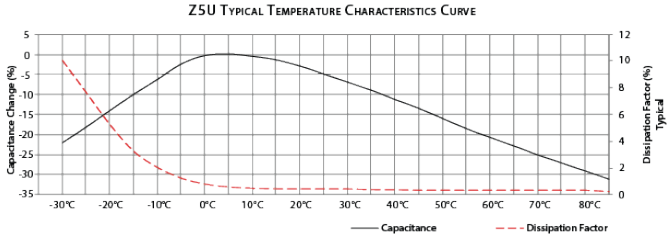


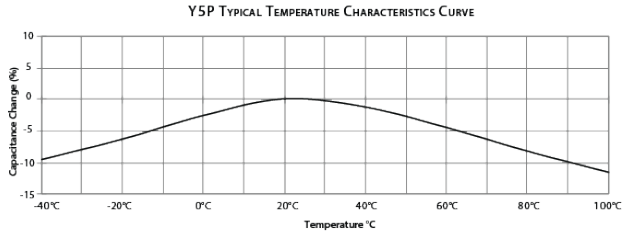
Mechanical / Dimensional Data



Dimensions: in. [mm]

Typical Temperature Characteristics





RoHS COMPLIANT

Part Number	Capacitance (pF)*	Dielectric Material	Rated Voltage**	Discs in Stack	L (Max) (in. [mm])	D (Max) (in. [mm])	T (±10%) (in. [mm])	A*** (in. [mm])
ST1Y5P251M10KV04				4	0.78 [19.9]			
ST1Y5P251M10KV05				5	0.97 [24.7]			
ST1Y5P251M10KV06				6	1.16 [29.5]			
ST1Y5P251M10KV07				7	1.35 [34.3]			
ST1Y5P251M10KV08	250	Y5P	10000	8	1.54 [39.1]	0.25 [6.5]	0.17 [4.4]	2.75 [70.0]
ST1Y5P251M10KV09				9	1.72 [43.9]			
ST1Y5P251M10KV10				10	1.91 [48.7]			
ST1Y5P251M10KV11				11	2.10 [53.4]			
ST1Y5P251M10KV12				12	2.29 [58.2]			
ST1Y5P251M12KV04				4	0.87 [22.0]			
ST1Y5P251M12KV05				5	1.08 [27.4]			
ST1Y5P251M12KV06				6	1.29 [32.7]			
ST1Y5P251M12KV07				7	1.49 [38.0]			
ST1Y5P251M12KV08	250	Y5P	12000	8	1.70 [43.4]	0.27 [6.9]	0.19 [4.9]	2.75 [70.0]
ST1Y5P251M12KV09				9	1.91 [48.7]			
ST1Y5P251M12KV10				10	2.12 [54.0]			
ST1Y5P251M12KV11				11	2.33 [59.4]			
ST1Y5P251M12KV12				12	2.54 [64.7]			
ST1Y5P501M6KV04				4	0.41 [10.5]			
ST1Y5P501M6KV05				5	0.51 [12.9]			
ST1Y5P501M6KV06				6	0.60 [15.4]			
ST1Y5P501M6KV07				7	0.70 [17.8]			
ST1Y5P501M6KV08	500	Y5P	6000	8	0.80 [20.3]	0.24 [6.2]	0.09 [2.3]	2.75 [70.0]
ST1Y5P501M6KV09				9	0.89 [22.7]			
ST1Y5P501M6KV10				10	0.99 [25.2]			
ST1Y5P501M6KV11				11	1.08 [27.6]			
ST1Y5P501M6KV12				12	1.18 [30.0]			
ST1Y5P501M8KV04				4	0.51 [13.0]			
ST1Y5P501M8KV05				5	0.63 [16.1]			
ST1Y5P501M8KV06				6	0.75 [19.1]			
ST1Y5P501M8KV07				7	0.87 [22.2]			
ST1Y5P501M8KV08	500	Y5P	8000	8	0.99 [25.3]	0.28 [7.1]	0.11 [2.9]	2.75 [70.0]
ST1Y5P501M8KV09				9	1.11 [28.3]			
ST1Y5P501M8KV10				10	1.23 [31.4]			
ST1Y5P501M8KV11				11	1.36 [34.5]			
ST1Y5P501M8KV12				12	1.48 [37.6]			
ST1Y5P501M10KV04				4	0.74 [18.9]			
ST1Y5P501M10KV05				5	0.92 [23.4]			
ST1Y5P501M10KV06				6	1.10 [28.0]			
ST1Y5P501M10KV07				7	1.28 [32.5]			
ST1Y5P501M10KV08	500	Y5P	10000	8	1.46 [37.0]	0.35 [8.9]	0.17 [4.2]	2.75 [70.0]
ST1Y5P501M10KV09				9	1.63 [41.6]			
ST1Y5P501M10KV10				10	1.81 [46.1]			
ST1Y5P501M10KV11				11	1.99 [50.7]			
ST1Y5P501M10KV12				12	2.17 [55.2]			
ST1Y5P501M12KV04				4	0.86 [21.9]			
ST1Y5P501M12KV05				5	1.07 [27.2]			
ST1Y5P501M12KV06				6	1.28 [32.5]			
ST1Y5P501M12KV07				7	1.49 [37.8]			
ST1Y5P501M12KV08	500	Y5P	12000	8	1.69 [43.1]	0.39 [10.0]	0.19 [4.9]	2.75 [70.0]
ST1Y5P501M12KV09				9	1.90 [48.4]			
ST1Y5P501M12KV10				10	2.11 [53.7]			
ST1Y5P501M12KV11				11	2.32 [59.0]			
ST1Y5P501M12KV12				12	2.53 [64.3]			

* Capacitance per disc with 20% tolerance.

** Rated voltage per disc, dielectric withstand 150% of rated.

*** A dimension tolerance of ± 0.040 in. / 1.02 mm.

Part Number	Capacitance (pF)*	Dielectric Material	Rated Voltage**	Discs in Stack	L (Max) (in. [mm])	D (Max) (in. [mm])	T (±10%) (in. [mm])	A*** (in. [mm])
ST1Y5P102M6KV04				4	0.42 [10.7]			
ST1Y5P102M6KV05				5	0.52 [13.1]			
ST1Y5P102M6KV06				6	0.61 [15.6]			
ST1Y5P102M6KV07				7	0.71 [18.1]			
ST1Y5P102M6KV08	1000	Y5P	6000	8	0.81 [20.6]	0.34 [8.7]	0.09 [2.3]	2.75 [70.0]
ST1Y5P102M6KV09				9	0.91 [23.1]			
ST1Y5P102M6KV10				10	1.01 [25.6]			
ST1Y5P102M6KV11				11	1.10 [28.1]			
ST1Y5P102M6KV12				12	1.20 [30.6]			
ST1Y5P102M8KV04				4	0.50 [12.7]			
ST1Y5P102M8KV05				5	0.62 [15.7]			
ST1Y5P102M8KV06				6	0.73 [18.7]			
ST1Y5P102M8KV07				7	0.85 [21.7]			
ST1Y5P102M8KV08	1000	Y5P	8000	8	0.97 [24.7]	0.39 [9.9]	0.11 [2.8]	2.75 [70.0]
ST1Y5P102M8KV09				9	1.09 [27.6]			
ST1Y5P102M8KV10				10	1.20 [30.6]			
ST1Y5P102M8KV11				11	1.32 [33.6]			
ST1Y5P102M8KV12				12	1.44 [36.6]			
ST1Z5U251M10KV04				4	0.76 [19.3]			
ST1Z5U251M10KV05				5	0.94 [23.9]			
ST1Z5U251M10KV06				6	1.12 [28.5]			
ST1Z5U251M10KV07				7	1.30 [33.2]			
ST1Z5U251M10KV08	250	Z5U	10000	8	1.49 [37.8]	0.26 [6.5]	0.17 [4.2]	2.75 [70.0]
ST1Z5U251M10KV09				9	1.67 [42.5]			
ST1Z5U251M10KV10				10	1.85 [47.1]			
ST1Z5U251M10KV11				11	2.03 [51.8]			
ST1Z5U251M10KV12				12	2.22 [56.4]			
ST1Z5U251M12KV04				4	0.85 [21.7]			
ST1Z5U251M12KV05				5	1.06 [27.0]			
ST1Z5U251M12KV06				6	1.27 [32.2]			
ST1Z5U251M12KV07				7	1.47 [37.5]			
ST1Z5U251M12KV08	250	Z5U	12000	8	1.68 [42.7]	0.28 [7.0]	0.19 [4.8]	2.75 [70.0]
ST1Z5U251M12KV09				9	1.89 [48.0]			
ST1Z5U251M12KV10				10	2.09 [53.3]			
ST1Z5U251M12KV11				11	2.30 [58.5]			
ST1Z5U251M12KV12				12	2.51 [63.8]			
ST1Z5U102M10KV04				4	0.78 [19.9]			
ST1Z5U102M10KV05				5	0.97 [24.7]			
ST1Z5U102M10KV06				6	1.16 [29.4]			
ST1Z5U102M10KV07				7	1.35 [34.2]			
ST1Z5U102M10KV08	1000	Z5U	10000	8	1.53 [39.0]	0.30 [7.6]	0.17 [4.3]	2.75 [70.0]
ST1Z5U102M10KV09				9	1.72 [43.8]			
ST1Z5U102M10KV10				10	1.91 [48.6]			
ST1Z5U102M10KV11				11	2.10 [53.4]			
ST1Z5U102M10KV12				12	2.29 [58.2]			
ST1Z5U102M12KV04				4	0.88 [22.5]			
ST1Z5U102M12KV05				5	1.10 [27.9]			
ST1Z5U102M12KV06				6	1.31 [33.4]			
ST1Z5U102M12KV07				7	1.53 [38.8]			
ST1Z5U102M12KV08	1000	Z5U	12000	8	1.74 [44.3]	0.31 [8.0]	0.19 [4.9]	2.75 [70.0]
ST1Z5U102M12KV09				9	1.96 [49.7]			
ST1Z5U102M12KV10				10	2.17 [55.2]			
ST1Z5U102M12KV11				11	2.38 [60.6]			
ST1Z5U102M12KV12				12	2.60 [66.1]			

* Capacitance per disc with 20% tolerance.
** Rated voltage per disc, dielectric withstand 150% of rated.
*** A dimension tolerance of ± 0.040 in. / 1.02 mm.