

EIA Class 2 Temperature/ Frequency Stable Disc Ceramic Capacitors

MALLORY



- Provides Exceptional Stability Where Minimum Variation in Capacitance is Required
- Conformally Coated
- Radial Leads

GENERAL SPECIFICATIONS

Temperature Range:
-30°C to +85°C

Voltage Range:
500 and 1,000 VDC

Capacitance Range:
100 pF to 10,000 pF

Lead Length: 1 inch minimum

Insulation Resistance:
10,000 megohms (min)

Power Factor @ 1000 Hz:
1.5% Max

Breakdown Voltage:
2.5 x rated
(5 seconds Max)

****Please note: Y5U Will no longer be available once stock is depleted. (2/23/05)**

Capacity pF	Tol	Temp Coef	Size (Inches)				Size (Millimeters)				Catalog Number
			D	T	S	d	D	T	S	d	
500 WVDC											
150	10%	Y5E	.236	.157	.252	.025	6.0	4.0	6.4	.6	SM151K
220	10%	Y5E	.236	.157	.252	.025	6.0	4.0	6.4	.6	SM221K
390	10%	Y5E	.236	.157	.252	.025	6.0	4.0	6.4	.6	SM391K
470	10%	Y5E	.236	.157	.252	.025	6.0	4.0	6.4	.6	SM471K
560	10%	Y5E	.236	.157	.252	.025	6.0	4.0	6.4	.6	SM561K
680	10%	Y5E	.236	.157	.252	.025	6.0	4.0	6.4	.6	SM681K
1,000	10%	Y5E	.339	.157	.252	.025	8.6	4.0	6.4	.6	SM102K
2,200	10%	Y5E	.433	.157	.252	.025	11.0	4.0	6.4	.6	SM222K
4,700	10%	Y5E	.571	.157	.374	.025	14.5	4.0	9.5	.6	SM472K
6,800	10%	Y5E	.748	.157	.374	.025	19.0	4.0	9.5	.6	SM682K
10,000	10%	Y5E	.748	.157	.374	.025	19.0	4.0	9.5	.6	SM103K

Capacity pF	Tol	Temp Coef	Size (Inches)				Size (Millimeters)				Catalog Number
			D	T	S	d	D	T	S	d	
1000 WVDC											
100	10%	Y5P	.236	.177	.252	.025	6.0	4.5	6.4	.6	SP101K
150	10%	Y5P	.236	.177	.252	.025	6.0	4.5	6.4	.6	SP151K
180	10%	Y5P	.236	.177	.252	.025	6.0	4.5	6.4	.6	SP181K
220	10%	Y5P	.236	.177	.252	.025	6.0	4.5	6.4	.6	SP221K
270	10%	Y5P	.236	.177	.252	.025	6.0	4.5	6.4	.6	SP271K
330	10%	Y5P	.236	.177	.252	.025	6.0	4.5	6.4	.6	SP331K
390	10%	Y5P	.236	.177	.252	.025	6.0	4.5	6.4	.6	SP391K
470	10%	Y5P	.236	.177	.252	.025	6.0	4.5	6.4	.6	SP471K
560	10%	Y5P	.236	.177	.252	.025	6.0	4.5	6.4	.6	SP561K
680	10%	Y5P	.236	.177	.252	.025	6.0	4.5	6.4	.6	SP681K
1,000	10%	Y5P	.291	.177	.252	.025	7.4	4.5	6.4	.6	SP102K
1,500	10%	Y5P	.339	.177	.252	.025	8.6	4.5	6.4	.6	SP152K
1,800	10%	Y5P	.374	.177	.252	.025	9.5	4.5	6.4	.6	SP182K
2,200	10%	Y5P	.374	.177	.252	.025	9.5	4.5	6.4	.6	SP222K
2,700	10%	Y5P	.433	.177	.252	.025	11.0	4.5	6.4	.6	SP272K
3,900	10%	Y5P	.492	.177	.252	.025	12.5	4.5	6.4	.6	SP392K
4,700	10%	Y5P	.591	.177	.374	.025	15.0	4.5	9.5	.6	SP472K

HIGH VOLTAGE

- Highly Efficient for Bypass and Coupling Applications
- Designed Around EIA Test Spec. RS-165A
- Radial Leads

GENERAL SPECIFICATIONS

Temperature Range:
-30°C to +85°C

Voltage Range:
2,000 and 3,000 WVDC

Capacitance Range:
100pF to 10,000 pF

Insulation Resistance:
10,000 megohms (min)

Power Factor @ 1000 Hz:
2.5% Max

Breakdown Voltage:
2.5 x rated
(5 seconds Max)

Lead Length: 1 inch minimum

Capacity pF	Tol	Temp Coef	Size (Inches)				Size (Millimeters)				Catalog Number
			D	T	S	d	D	T	S	d	
2000 WVDC											
1,000	20%	Y5U	.394	.197	.252	.032	10.0	5.0	6.4	.8	HS102M
1,500	20%	Y5U	.394	.197	.252	.032	10.0	5.0	6.4	.8	HS152M
2,200	20%	Y5U	.472	.197	.252	.032	12.0	5.0	6.4	.8	HS222M
3,300	20%	Y5U	.591	.197	.374	.032	15.0	5.0	9.5	.8	HS332M
4,700	20%	Y5U	.591	.197	.374	.032	15.0	5.0	9.5	.8	HS472M
6,800	20%	Y5U	.787	.197	.374	.032	20.0	5.0	9.5	.8	HS682M
10,000	20%	Y5U	.787	.197	.374	.032	20.0	5.0	9.5	.8	HS103M
3000 WVDC											
100	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	.8	HT101K
120	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	.8	HT121K
150	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	.8	HT151K
180	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	.8	HT181K
220	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	.8	HT221K
270	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	.8	HT271K
330	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	.8	HT331K

Capacity pF	Tol	Temp Coef	Size (Inches)				Size (Millimeters)				Catalog Number
			D	T	S	d	D	T	S	d	
3000 WVDC											
390	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	.8	HT391K
470	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	.8	HT471K
560	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	.8	HT561K
680	10%	Y5P	.472	.236	.374	.032	12.0	6.0	9.5	.8	HT681K
820	10%	Y5P	.472	.236	.374	.032	12.0	6.0	9.5	.8	HT821K
1,000	10%	Y5P	.591	.236	.374	.032	15.0	6.0	9.5	.8	HT102K
1,000	20%	Y5U	.394	.236	.374	.032	10.0	6.0	9.5	.8	HT102M
1,200	10%	Y5P	.591	.236	.374	.032	15.0	6.0	9.5	.8	HT122K
1,500	10%	Y5P	.591	.236	.374	.032	15.0	6.0	9.5	.8	HT152K
1,500	20%	Y5U	.472	.236	.374	.032	12.0	6.0	9.5	.8	HT152M
1,800	10%	Y5P	.591	.236	.374	.032	15.0	6.0	9.5	.8	HT182K
1,800	20%	Y5U	.591	.236	.374	.032	15.0	6.0	9.5	.8	HT182M
2,200	10%	Y5P	.787	.236	.374	.032	20.0	6.0	9.5	.8	HT222K
2,200	20%	Y5U	.591	.236	.374	.032	15.0	6.0	9.5	.8	HT222M
2,700	10%	Y5P	.787	.236	.374	.032	20.0	6.0	9.5	.8	HT272K
3,300	10%	Y5P	.787	.236	.374	.032	20.0	6.0	9.5	.8	HT332K
4,700	20%	Y5U	.787	.236	.374	.032	20.0	6.0	9.5	.8	HT472M
6,800	20%	Y5U	.787	.236	.374	.032	20.0	6.0	9.5	.8	HT682M

Disc Ceramic Capacitors