

EIA Class 2 Temperature/ Frequency Stable Ceramic Capacitors



Highlights

- Provides exceptional stability where minimum variation in capacitance is required
- Conformally Coated
- Radial Leads

Specifications

Capacitance Range:	100 pF to 10,000 pF
Voltage Range:	500 and 1,000 VDC
Tolerance:	10%
Operating Temperature Range:	-30 °C to +85 °C
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)

Ratings

Part Number	Capacity pF	Tol	Temp Coef	Size (inches)				Size (Millimeters)			
				D	T	S	d	D	T	S	d
500 WVDC											
SM151K	150	10%	Y5E	.236	.157	.252	.025	6.0	4.0	6.4	0.65
SM221K	220	10%	Y5E	.236	.157	.252	.025	6.0	4.0	6.4	0.65
SM391K	390	10%	Y5E	.236	.157	.252	.025	6.0	4.0	6.4	0.65
SM471K	470	10%	Y5E	.236	.157	.252	.025	6.0	4.0	6.4	0.65
SM561K	560	10%	Y5E	.236	.157	.252	.025	6.0	4.0	6.4	0.65
SM681K	680	10%	Y5E	.236	.157	.252	.025	6.0	4.0	6.4	0.65
SM102K	1,000	10%	Y5E	.339	.157	.252	.025	8.6	4.0	6.4	0.65
SM222K	2,200	10%	Y5E	.433	.157	.252	.025	11.0	4.0	6.4	0.65
SM472K	4,700	10%	Y5E	.571	.157	.374	.025	14.5	4.0	9.5	0.65
SM682K	6,800	10%	Y5E	.748	.157	.374	.025	19.0	4.0	9.5	0.65
SM103K	10,000	10%	Y5E	.748	.157	.374	.025	19.0	4.0	9.5	0.65

Part Number	Capacity pF	Tol	Temp Coef	Size (inches)				Size (Millimeters)			
				D	T	S	d	D	T	S	d
1000 WVDC											
SP101K	100	10%	Y5E	.238	.236	.252	.025	6.0	6.0	6.4	0.65
SP151K	150	10%	Y5E	.238	.236	.252	.025	6.0	6.0	6.4	0.65
SP181K	180	10%	Y5E	.238	.236	.252	.025	6.0	6.0	6.4	0.65
SP221K	220	10%	Y5E	.238	.236	.252	.025	6.0	6.0	6.4	0.65
SP271K	270	10%	Y5E	.238	.236	.252	.025	6.0	6.0	6.4	0.65
SP331K	330	10%	Y5E	.238	.236	.252	.025	6.0	6.0	6.4	0.65
SP391K	390	10%	Y5E	.238	.236	.252	.025	6.0	6.0	6.4	0.65
SP471K	470	10%	Y5E	.238	.236	.252	.025	6.0	6.0	6.4	0.65
SP561K	560	10%	Y5E	.291	.236	.252	.025	7.4	6.0	6.4	0.65
SP681K	680	10%	Y5E	.291	.236	.252	.025	7.4	6.0	6.4	0.65
SP102K	1,000	10%	Y5E	.374	.236	.252	.025	9.5	6.0	6.4	0.65
SP152K	1,500	10%	Y5E	.433	.236	.252	.025	11.0	6.0	6.4	0.65
SP182K	1,800	10%	Y5E	.433	.236	.252	.025	11.0	6.0	6.4	0.65
SP222K	2,200	10%	Y5E	.492	.236	.252	.025	12.5	6.0	6.4	0.65
SP272K	2,700	10%	Y5E	.590	.236	.374	.025	15.0	6.0	9.5	0.65
SP392K	3,900	10%	Y5E	.641	.236	.374	.025	16.3	6.0	9.5	0.65
SP472K	4,700	10%	Y5E	.641	.236	.374	.025	16.3	6.0	9.5	0.65

EIA Class 2 Temperature/ Frequency Stable Ceramic Capacitors

High Voltage Highlights and Specifications

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

Capacitance Range: 100 pF to 10,000 pF
Voltage Range: 2,000 and 3,000 WVDC
Tolerance: 10%. 20%
Operating Temperature Range: -30 °C to +85 °C
Lead Length: 1 inch minimum
Insulation Resistance: 10,000 megohms (min)
Power Factor @ 1000 Hz: 2.5% Max
Breakdown Voltage: 2.5 x rated(5 seconds Max)

Ratings

Part Number	Capacity pF	Tol	Temp Coef	Size (inches)				Size (Millimeters)			
				D	T	S	d	D	T	S	d
2000 WVDC											
HS102M	1,000	20%	Y5U**	.394	.236	.252	.032	10.0	6.0	6.4	0.8
HS152M	1,500	20%	Y5U**	.394	.236	.252	.032	10.0	6.0	6.4	0.8
HS222M	2,200	20%	Y5U**	.433	.236	.252	.032	11.0	6.0	6.4	0.8
HS332M	3,300	20%	Y5U**	.590	.236	.374	.032	15.0	6.0	9.5	0.8
HS472M	4,700	20%	Y5U**	.590	.236	.374	.032	15.0	6.0	9.5	0.8
HS682M	6,800	20%	Y5U**	.787	.236	.374	.032	20.0	6.0	9.5	0.8
HS103M	10,000	20%	Y5U**	.787	.236	.374	.032	20.0	6.0	9.5	0.8
3000 WVDC											
HT101K	100	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	0.8
HT121K	120	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	0.8
HT151K	150	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	0.8
HT181K	180	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	0.8
HT221K	220	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	0.8
HT271K	270	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	0.8
HT331K	330	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	0.8

Part Number	Capacity pF	Tol	Temp Coef	Size (inches)				Size (Millimeters)			
				D	T	S	d	D	T	S	d
3000 WVDC											
HT391K	390	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	0.8
HT471K	470	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	0.8
HT561K	560	10%	Y5P	.394	.236	.374	.032	10.0	6.0	9.5	0.8
HT681K	680	10%	Y5P	.433	.236	.374	.032	11.0	6.0	9.5	0.8
HT821K	820	10%	Y5P	.433	.236	.374	.032	11.0	6.0	9.5	0.8
HT102K	1,000	10%	Y5P	.590	.236	.374	.032	15.0	6.0	9.5	0.8
HT102M	1,000	20%	Y5U**	.394	.236	.374	.032	10.0	6.0	9.5	0.8
HT122K	1,200	10%	Y5P	.590	.236	.374	.032	15.0	6.0	9.5	0.8
HT152K	1,500	10%	Y5P	.590	.236	.374	.032	11.0	6.0	9.5	0.8
HT152M	1,500	20%	Y5U**	.433	.236	.374	.032	11.0	6.0	9.5	0.8
HT182K	1,800	10%	Y5P	.590	.236	.374	.032	15.0	6.0	9.5	0.8
HT182M	1,800	20%	Y5U**	.433	.236	.374	.032	11.0	6.0	9.5	0.8
HT222K	2,200	10%	Y5P	.787	.236	.374	.032	20.0	6.0	9.5	0.8
HT222M	2,200	20%	Y5U**	.590	.236	.374	.032	15.0	6.0	9.5	0.8
HT272K	2,700	10%	Y5P	.787	.236	.374	.032	20.0	6.0	9.5	0.8
HT332K	3,300	10%	Y5P	.787	.236	.374	.032	20.0	6.0	9.5	0.8
HT472M	4,700	20%	Y5U**	.787	.236	.374	.032	20.0	6.0	9.5	0.8
HT682M	6,800	20%	Y5U**	0.787	.236	.374	.032	20.0	6.0	9.5	0.8

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