

# 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)				Part Number	Capacity pF	Tol	Temp Coef	Size (inches)				Size (Millimeters)			
				D	T	S	d	D	T	S	d					D	T	S	d	D	T	S	d
<b>500 WVDC</b>												<b>1000 WVDC</b>											
SM151K**	150	10%	Y5E	.236	.157	.252	.025	6.0	4.0	6.4	0.65	SP101K*	100	10%	Y5E	.238	.236	.252	.025	6.0	6.0	6.4	0.65
SM221K**	220	10%	Y5E	.236	.157	.252	.025	6.0	4.0	6.4	0.65	SP181K*	180	10%	Y5E	.238	.236	.252	.025	6.0	6.0	6.4	0.65
SM391K**	390	10%	Y5E	.236	.157	.252	.025	6.0	4.0	6.4	0.65	SP221K**	220	10%	Y5E	.238	.236	.252	.025	6.0	6.0	6.4	0.65
SM471K**	470	10%	Y5E	.236	.157	.252	.025	6.0	4.0	6.4	0.65	SP271K**	270	10%	Y5E	.238	.236	.252	.025	6.0	6.0	6.4	0.65
SM561K**	560	10%	Y5E	.236	.157	.252	.025	6.0	4.0	6.4	0.65	SP331K*	330	10%	Y5E	.238	.236	.252	.025	6.0	6.0	6.4	0.65
SM681K**	680	10%	Y5E	.236	.157	.252	.025	6.0	4.0	6.4	0.65	SP471K*	470	10%	Y5E	.238	.236	.252	.025	6.0	6.0	6.4	0.65
SM102K**	1,000	10%	Y5E	.339	.157	.252	.025	8.6	4.0	6.4	0.65	SP561K**	560	10%	Y5E	.291	.236	.252	.025	7.4	6.0	6.4	0.65
SM222K**	2,200	10%	Y5E	.433	.157	.252	.025	11.0	4.0	6.4	0.65	SP681K**	680	10%	Y5E	.291	.236	.252	.025	7.4	6.0	6.4	0.65
SM472K**	4,700	10%	Y5E	.571	.157	.374	.025	14.5	4.0	9.5	0.65	SP102K*	1,000	10%	Y5E	.374	.236	.252	.025	9.5	6.0	6.4	0.65
SM682K**	6,800	10%	Y5E	.748	.157	.374	.025	19.0	4.0	9.5	0.65	SP152K**	1,500	10%	Y5E	.433	.236	.252	.025	11.0	6.0	6.4	0.65
SM103K**	10,000	10%	Y5E	.748	.157	.374	.025	19.0	4.0	9.5	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

\* AVAILABLE ONLY UNTIL STOCK IS DEPLETED

\*\* PART NUMBER IS OBSOLETE