

**Introduction**

These ceramic capacitors use high dielectric constant ($K > 1000$) ferroelectric materials based on barium titanate. Key features of this capacitor class include its non-linear temperature characteristics, reliable voltage and frequency performance and predictable change of capacitance with time. The capacitors available in this class have temperature characteristic codes of Z5P. Other codes are also available having dielectric constants usually, but not necessarily, greater than 4000. The capacitors available in this class have temperature characteristic codes of T3M, Y5R, Y5U, Y5V, Z5P and Z5U.

Application

1. High voltage power supplies
2. Voltage multipliers
3. By-pass circuits
4. Coupling circuits
5. Filters

Specifications**Capacitance and Dissipation Factor Measurement Methods:**

Capacitance and Dissipation Factor are measured at a standard frequency of 1 KHz. A temperature of 25°C is used with an applied test voltage of less than 2 Volts AC. The allowable dissipation factor will be no greater than 2.5%.

Voltage Ratings:

500 V_{DC} to 15 KV_{DC} (see tables)

Capacitance Tolerances Available:

Tolerance	Code Letter
±5	J
±10%	K
±20%	M
+80, -20%	Z
+100, -0%	P

Dielectric Withstand Voltage:

Capacitors must meet the original manufacturer's specifications following application of 2 times the rated D.C. voltage for 5±1 seconds or 1.5 times the rated voltage for NY2 Series.

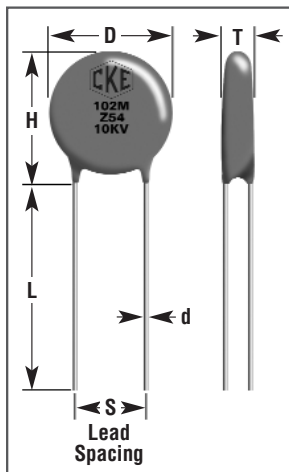
Insulation Resistance:

Insulation resistance shall be 10,000 megohms or greater with a test temperature of 25°C. Measurements are made between component terminals following a 2 minute charge at 100 Volts DC. Charging currents will be limited to no more than 50 milliamperes.

Temperature Characteristics Available:

The temperature characteristics table follows the EIA Standard RS-198-C. The first letter in the table indicates the low temperature limit followed by a number which sets the upper temperature limit. The final letter sets the maximum capacitance deviation acceptable over the designated range with 25°C serving as the reference point.

1st Letter	Number	Last Letter
X= -55°C	5= +85°C	F= ±7.5%
Y= -30°C	6= +105°C	P= ±10%
Z= +10°C	7= +125°C	R= ±15%
		S= ±22%
		T= +22%/-33%
		U= +22%/-56%
		V= +22%/-82%

**Life Testing Method:**

These capacitors are designed to withstand voltages of at least 1.5 times the rated DC voltage for at least 1000 hours at 85°C. A change of capacitance of no more than 10% is acceptable when tested 24 hours later. Dissipation Factor changes are limited to 5% with Insulation Resistance values of no less than 1000 megohms.

Temperature Ratings:

Class II capacitors are intended to operate within the temperature limits set forth in EIA RS-198-C but may be stored at temperatures ranging from -55°C to +125°C without harm.

Humidity Resistance:

Capacitors must have a minimum insulation resistance of 1000 megohms and a maximum Dissipation Factor of 5% following exposure to a relative humidity of 95% for 100 hours at 40°C.

Construction**Coating Materials:**

All Capacitors with 500 VDC ratings and 1 KVDC ratings are coated with a flame retardant, baked-on phenolic coating applied using the wet-dip method. Those rated 2 KV and above, are coated with a flame retardant, dry process fluid-bed epoxy. Diameter and thickness dimensions shown in the tables apply to epoxy as well as phenolic-coated units.

Lead Coatings:

On straight leads, the coatings shall not extend beyond 1/8 inch below the bottom of the capacitor disk. On bent or formed leads, the coating will not be allowed beyond the kink which is the seating plane of the capacitor.

Lead Wire Material and Configurations:

Lead wire material is tin-plated copper wire of 22 or 20 AWG. Capacitors with diameters of 12 mm or less, or voltage values less than 8 KV will be of the smaller gauge. Standard lead configurations are straight and at least 1 inch long, and formed or cut leads are available on special order (drawings required on special configurations). Lead spacings are available from the tables.

Component Marking:

Both inking and laser equipment are used to mark these components. Each capacitor shall bear the manufacturer's initials "CKE" across the top, followed by the capacitance, tolerance, temperature code and voltage where space permits. When space is limited, the temperature characteristic code may be omitted.

Ordering Information:

Component values should be selected from the information provided in the tables, and orders should be placed using the convention described below. For special orders, contact CKE using the contact information provided at the end of this document.

CK2 Manufacturer's Code	Y5P Temperature Characteristics Code	102 Capacitor Value (pf)	M Capacitance Tolerance Code	10KV DC Voltage Rating
CK2 or NY2 for Class II Capacitors	From Temperature Characteristics Table to the Left	3 Digits Total 1st two are Significant Third is Multiplier 0=X1 1=X10 2=X100 3=X1000 9=X10000	K=±10% M=±20% Z=+80, -20% P= +100, -0%	From Table
Example: CK2Z5U471K5KV This is a capacitor with Z5U temperature characteristics, a capacitance of 470 pf, a capacitance tolerance of ±10% with a rated DC voltage of 5 KV.				



Maximum Diameter (mm)	Maximum Capacitance Available (pf)-Y5P Temperature Coefficient									CK2 Series	
	500V _{DC}	1KV _{DC}	2KV _{DC}	3KV _{DC}	4KV _{DC}	5KV _{DC}	6KV _{DC}	8KV _{DC}	10KV _{DC}	12KV _{DC}	15KV _{DC}
Max. Thickness (mm) ▶	4.0	5.0	6.0	6.0	7.0	7.0	8.0	9.0	10.0	10.0	12.0
6	1000	680	470	300	270						
7	1500	1000	680	470	330	270					
8	2200	1500	1000	680	470	330	240	220			
9	3300	2200	1500	1000	680	470	330	270	220	180	
10	3900	2700	1800	1200	1000	680	470	330	270	240	220
12	4700	3900	2200	1800	1500	1000	680	680	470	390	330
14	6800	4700	3300	2200	1800	1500	1000	820	680	470	390
16	10000	6800	4700	2700	2200	2000	1500	1000	820	680	470
18		10000	6800	3300	3000	2700	2200	1500	1200	1000	680
20			10000	4700	3900	3300	2700	2000	1500	1200	1000

Maximum Diameter (mm)	Maximum Capacitance Available (pf)-Y5U Temperature Coefficient									CK2 Series	
	500V _{DC}	1KV _{DC}	2KV _{DC}	3KV _{DC}	4KV _{DC}	5KV _{DC}	6KV _{DC}	8KV _{DC}	10KV _{DC}	12KV _{DC}	15KV _{DC}
Max. Thickness (mm) ▶	4.0	5.0	6.0	6.0	7.0	7.0	8.0	9.0	10.0	10.0	12.0
6	2200	1500	1000								
7	3300	2200	1500	820	680	470					
8	4700	3300	2200	1200	1000	680	470	390			
9	6800	4700	3300	1800	1200	1000	680	470	430		
10	10000	6800	3900	2200	1500	1200	1000	680	560	470	
12	15000	8200	4700	2700	2200	1800	1500	1000	820	680	470
14	22000	10000	6800	3300	3300	2700	2200	1500	1200	1000	680
16	27000	15000	10000	4700	3900	3300	2700	2200	1800	1500	1000
18	33000	22000	15000	6800	4700	3900	3300	2700	2200	1800	1200
20	39000	30000	22000	10000	6800	4700	3900	3300	2700	2200	1500

Maximum Diameter (mm)	Maximum Capacitance Available (pf)-Y5V Temperature Coefficient									CK2 Series	
	500V _{DC}	1KV _{DC}	2KV _{DC}	3KV _{DC}	4KV _{DC}	5KV _{DC}	6KV _{DC}	8KV _{DC}	10KV _{DC}	12KV _{DC}	15KV _{DC}
Max. Thickness (mm) ▶	4.0	5.0	6.0	6.0	7.0	7.0	8.0	9.0	10.0	10.0	12.0
6	3300	2200	1500	820							
7	4700	3300	2200	1500	1200	1000					
8	8200	4700	3300	2200	1500	1200	1000				
9	10000	6800	4700	3300	2200	1800	1200	1000			
10	15000	8200	6800	3900	3300	2200	1800	1500	1000		
12	22000	10000	8200	4700	3900	3300	3000	2200	1500	1000	
14	33000	15000	10000	6800	5600	4700	3900	3300	2200	1500	
16	47000	22000	15000	8200	7500	6800	4700	3900	3300	2200	
18	68000	33000	22000	12000	10000	8200	6800	4700	4300	3600	
20	100000	47000	33000	15000	12000	10000	8200	6800	5600	4700	

Maximum Diameter (mm)	Maximum Capacitance Available (pf)-Z5P Temperature Coefficient									CK2 Series	
	500V _{DC}	1KV _{DC}	2KV _{DC}	3KV _{DC}	4KV _{DC}	5KV _{DC}	6KV _{DC}	8KV _{DC}	10KV _{DC}	12KV _{DC}	
Max. Thickness (mm) ▶	4.0	5.0	5.0	6.0	6.0	7.0	7.0	8.0	9.0	10.0	
6	560	430	300	180	150	120	100				
8	1500	1000	680	390	330	270	240				
10	2700	1800	1200	680	560	470	390	300	240	200	
12	3900	2700	1800	1000	820	750	680	470	390	300	
14	5600	3900	2700	1500	1200	1000	910	680	560	470	
16	8200	5600	3600	2200	1800	1500	1200	820	680	560	
18	10000	6300	4300	2400	2000	1800	1500	1000	820	680	
20		8200	5100	3300	2700	2400	2000	1200	1000	820	

Maximum Diameter (mm)	Maximum Capacitance Available (pf)-Z5U Temperature Coefficient									CK2 Series	
	500V _{DC}	1KV _{DC}	2KV _{DC}	3KV _{DC}	4KV _{DC}	5KV _{DC}	6KV _{DC}	8KV _{DC}	10KV _{DC}	12KV _{DC}	
Max. Thickness (mm) ▶	4.0	5.0	5.0	6.0	6.0	7.0	7.0	8.0	9.0	10.0	
6	1800	1000	750	470	390	330	270				
8	3900	1800	1000	750	560	470	430				
10	6800	3000	2200	1200	1000	820	750	560	470	390	
12	10000	4700	3300	2000	1500	1200	1000	820	680	560	
14	15000	7500	4700	3000	2400	2000	1800	1200	1000	820	
16		10000	6800	3900	3300	2700	2200	1800	1200	1000	
18			8200	4700	3900	3300	2700	2000	1500	1200	
20			10000	5600	4700	3900	3600	2400	2000	1500	

- 1) 500V, 1KV, 2KV
- 2) 3KV/4KV
- 3) 5KV/6KV/8KV
- 4) 10KV/12KV

Lead Spacing 5mm
Lead Spacing 7.5mm
Lead Spacing 10mm
Lead Spacing 10mm

dia over 10mm, Lead Spacing = 7.5mm or 10mm
dia over 10mm, Lead Spacing = 10mm
dia over 15mm, Lead Spacing = 12.5mm
dia over 15mm, Lead Spacing = 12.5mm



Maximum Diameter (mm)	Maximum Capacitance Available (pf)-Y5P Temperature Coefficient								NY2 Series		
	500V _{DC}	1KV _{DC}	2KV _{DC}	3KV _{DC}	4KV _{DC}	5KV _{DC}	6KV _{DC}	8KV _{DC}	10KV _{DC}	12KV _{DC}	15KV _{DC}
Max. Thickness (mm) ▶	4.0	5.0	6.0	6.0	7.0	7.0	8.0	9.0	10.0	10.0	12.0
6	1000	680	470	330	300	270					
7	1500	1000	680	560	470	330	270				
8	2200	1500	1000	820	680	470	330	240	220		
9	3300	2200	1500	1000	1000	680	470	330	270	220	180
10	3900	2700	1800	1500	1200	1000	680	470	330	300	270
12	4700	3900	2200	1800	1800	1500	1000	680	680	470	390
14	6800	4700	3300	2200	2200	1800	1500	1000	820	680	470
16	10000	6800	4700	3300	2700	2200	2000	1500	1000	820	680
18		10000	6800	4700	3300	3000	2700	2200	1500	1200	1000
20			10000	6800	4700	3900	3300	2700	2000	1500	1200

		Maximum Capacitance Available (pf)-Y5U Temperature Coefficient							NY2 Series			
Maximum Diameter (mm)		500V _{DC}	1KV _{DC}	2KV _{DC}	3KV _{DC}	4KV _{DC}	5KV _{DC}	6KV _{DC}	8KV _{DC}	10KV _{DC}	12KV _{DC}	15KV _{DC}
Max. Thickness (mm) ▶		4.0	5.0	6.0	6.0	7.0	7.0	8.0	9.0	10.0	10.0	12.0
6		2200	1500	1000								
7		3300	2200	1500	1000	820	680	470				
8		4700	3300	2200	1500	1200	1000	680	470	390		
9		6800	4700	3300	2200	1800	1200	1000	680	470	430	
10		10000	6800	3900	2700	2200	1500	1200	1000	680	560	470
12		15000	8200	4700	3300	2700	2200	1800	1500	1000	820	680
14		22000	10000	6800	4700	3300	3300	2700	2200	1500	1200	1000
16		27000	15000	10000	6800	4700	3900	3300	2700	2200	1800	1500
18		33000	22000	15000	10000	6800	4700	3900	3300	2700	2200	1800
20		39000	30000	22000	15000	10000	6800	4700	3900	3300	2700	2200

		Maximum Capacitance Available (pF)-Y5V Temperature Coefficient							NY2 Series			
Maximum Diameter (mm)		500V _{DC}	1KV _{DC}	2KV _{DC}	3KV _{DC}	4KV _{DC}	5KV _{DC}	6KV _{DC}	8KV _{DC}	10KV _{DC}	12KV _{DC}	15KV _{DC}
Max. Thickness (mm) ▶		4.0	5.0	6.0	6.0	7.0	7.0	8.0	9.0	10.0	10.0	12.0
6		3300	2200	1500	1000	820						
7		4700	3300	2200	2200	1500	1200	1000				
8		8200	4700	3300	3300	2200	1500	1200	1000			
9		10000	6800	4700	3900	3300	2200	1800	1200	1000		
10		15000	8200	6800	4700	3900	3300	2200	1800	1500	1000	
12		22000	10000	8200	6800	4700	3900	3300	3000	2200	1500	1000
14		33000	15000	10000	8200	6800	5600	4700	3900	3300	2200	1500
16		47000	22000	15000	10000	8200	7500	6800	4700	3900	3300	2200
18		68000	33000	22000	15000	12000	10000	8200	6800	4700	4300	3600
20		100000	47000	33000	22000	15000	12000	10000	8200	6800	5600	4700

		Maximum Capacitance Available (pf)-Z5P Temperature Coefficient							NY2 Series			
Maximum Diameter (mm)		500V _{DC}	1KV _{DC}	2KV _{DC}	3KV _{DC}	4KV _{DC}	5KV _{DC}	6KV _{DC}	8KV _{DC}	10KV _{DC}	12KV _{DC}	15KV _{DC}
Max. Thickness (mm) ▶		4.0	5.0	5.0	6.0	6.0	7.0	7.0	8.0	9.0	10.0	12.0
6		750	560	390	220	180	150	120				
8		1800	1200	820	470	390	330	300				
10		2700	2000	1200	820	680	560	470	390	330	240	
12		4700	3000	2000	1200	1000	820	750	620	470	360	300
14		6800	4700	2700	1800	1500	1200	1000	820	750	560	430
16		8200	6200	3900	2400	2000	1800	1500	1000	910	750	560
18		10000	8200	4700	3300	2700	2200	1800	1500	1200	910	820
20			10000	6800	3900	3600	3000	2400	2000	1500	1200	1000

		Maximum Capacitance Available (pf)-Z5U Temperature Coefficient							NY2 Series			
Maximum Diameter (mm)		500V _{DC}	1KV _{DC}	2KV _{DC}	3KV _{DC}	4KV _{DC}	5KV _{DC}	6KV _{DC}	8KV _{DC}	10KV _{DC}	12KV _{DC}	15KV _{DC}
Max. Thickness (mm) ▶		4.0	5.0	5.0	6.0	6.0	7.0	7.0	8.0	9.0	10.0	12.0
6		1800	1200	750	470	390	330	270				
8		3900	2400	1500	910	750	680	560				
10		6800	3900	2400	1500	1200	910	910				
12		10000	5600	3600	2200	1800	1500	1200	1000	910	750	560
14		15000	8200	5600	3300	2700	2200	1800	1500	1200	1000	820
16			10000	7500	4700	3600	3000	2400	2200	1800	1500	1000
18				10000	6200	4700	3900	3300	3000	2400	1800	1500
20					7500	6200	4700	4300	3900	3300	2400	2000

- 1) 500V, 1KV, 2KV
- 2) 3KV/4KV
- 3) 5KV/6KV/8KV
- 4) 10KV/12KV

- | |
|--------------------|
| Lead Spacing 5mm |
| Lead Spacing 7.5mm |
| Lead Spacing 10mm |
| Lead Spacing 10mm |

- | |
|---|
| dia over 10mm, Lead Spacing = 7.5mm or 10mm |
| dia over 10mm, Lead Spacing = 10mm |
| dia over 15mm, Lead Spacing = 12.5mm |
| dia over 15mm, Lead Spacing = 12.5mm |

**Introduction**

The temperature compensating Class 1 disk ceramic capacitors offer solutions for high Q applications such as RF Amplifiers and Filters that require good capacitance stability across a wide range of temperatures and operating conditions. These capacitors have temperature coefficients ranging from P350 to N1000 with K factors ranging from 10 to 300 max.

Application

1. RF Amplifiers
2. Filter Circuits
3. Resonant Networks

Specifications**Capacitance and Dissipation Factor Measurements:**

Measurements for C and DF will be made at 25°C with less than 2 volts applied at a frequency of 1 MHz. Dissipation factor for capacitance values greater than 30 pf shall be .1% max (Q=1000 minimum).

Standard Capacitance Tolerances Available: J – 5% K – 10% M – 20%

Voltage Ratings: 500 V_{DC} to 15 KV_{DC} (see tables)

Dielectric Withstand Voltage:

Capacitors must meet the original manufacturer's specifications following application of two times the rated D.C. voltage for 5±1 seconds.

Insulation Resistance:

Insulation resistance will be not less than 10,000 Megohms at 25°C. Measurement current is limited to 30 mA while charging to 100VDC in 2 minutes.

Temperature Characteristics Available: NPO and SL types

Life Testing Method:

These capacitors are designed to withstand voltages of at least 1.5 times the rated DC voltage for at least 1000 hours at 85°C. A change of capacitance of no more than 10% is acceptable when tested 24 hours later. Dissipation Factor changes are limited to 5% with Insulation Resistance values of no less than 1000 Megohms. DF will be less than 0.2%.

Temperature Ratings:

Class I capacitors are intended to operate within the temperature limits set forth in EIA RS-198-C but may be stored at temperatures ranging from -55°C to +125°C without harm.

Humidity Resistance:

Capacitors must have a minimum insulation resistance of 1000 Megohms and a maximum Dissipation Factor of 5% following exposure to a relative humidity of 95% for 100 hours at 40°C.

Construction**Coating Materials:**

All Capacitors with 500 VDC and 1 KVDC ratings are coated with a flame retardant, baked-on phenolic coating applied using the wet-dip method. Those rated 2 KV and above, are coated with a flame retardant, dry process fluid-bed epoxy. Lead coatings on straight leads shall not extend beyond 1/8 inch below the bottom of the capacitor disk. On formed leads, coating shall not extend beyond the kink which is the seating plane of the capacitor.

Lead Wire Material and Configurations:

Lead wire material is tin-plated copper wire of 22 or 20 AWG. Capacitors with diameters of 12 mm or less, or voltage values less than 8 KV will be of the smaller gauge. Standard lead configurations are straight and at least 1 inch long, and formed or cut leads are available on special order (drawings required on special configurations). Lead spacings are available from the tables.

Component Marking:

Both inking and laser equipment are used to mark these components.

Each capacitor shall bear the manufacturer's initials "CKE" across the top, followed by the capacitance, tolerance, temperature code and voltage where space permits. When space is limited, the temperature characteristic code may be omitted.

Ordering Information:

Component values should be selected from the information provided in the tables, and orders should be placed using the convention described below. For special orders, contact CKE using the contact information provided at the end of this document.

CK1 Manufacturer's Code	NPO Temperature Characteristics Code	101 Capacitor Value (pf)	K Capacitance Tolerance Code	10KV DC Voltage Rating
CK1 for Class 1 Capacitors	From Table	3 Digits Total 1st two are Significant Third is Multiplier	J = ±5% K = ±10% M = ±20%	From Table

Example: CK1NPO101K6KV
This is a capacitor with a NPO temperature characteristic, a capacitance of 100 pf, and a tolerance of ±10% at a rated voltage of 6KV.

Maximum Diameter (mm) Lead Spacing (mm)		Maximum Capacitance Available (pf)-NPO Temperature Coefficient								CK1 Series		
		500V _{DC}	1KV _{DC}	2KV _{DC}	3KV _{DC}	4KV _{DC}	5KV _{DC}	6KV _{DC}	8KV _{DC}	10KV _{DC}	12KV _{DC}	15KV _{DC}
Max. Thickness (mm) ▶		4.0	5.0	5.0	6.0	6.0	6.0	7.0	7.0	7.0	8.0	9.0
6.0	5.0	27	22	18	15	12	10	8				
7.0	5.0	47	39	27	22	18	15	12	10			
8.0	5.0	68	56	39	36	30	22	18	15	10	9.1	6.8
9.0	7.5	100	75	56	47	36	30	24	18	15	12	9.1
10.0	7.5	150	100	75	68	47	36	30	22	18	15	12
12.0	10.0	300	180	120	91	62	51	39	30	27	22	18
14.0	10.0	470	270	200	130	91	75	62	47	36	30	24
16.0	12.5		390	300	180	120	91	75	56	47	39	30
18.0	12.5		560	390	220	150	120	100	75	62	51	39
20.0	12.5			470	270	210	160	130	100	75	62	51

Maximum Diameter (mm)	Lead Spacing (mm)	Maximum Capacitance Available (pf)-SL Temperature Coefficient								CK1 Series		
		500V _{DC}	1KV _{DC}	2KV _{DC}	3KV _{DC}	4KV _{DC}	5KV _{DC}	6KV _{DC}	8KV _{DC}	10KV _{DC}	12KV _{DC}	15KV _{DC}
Max. Thickness (mm) ▶		4.0	5.0	5.0	6.0	6.0	6.0	7.0	7.0	7.0	8.0	9.0
6.0	5.0	100	68	47	39	33	30	24				
7.0	5.0	150	100	68	47	43	39	36	27			
8.0	5.0	220	180	100	82	75	62	51	36	30	24	20
9.0	7.5	330	220	120	100	91	82	68	51	39	33	27
10.0	7.5	470	300	150	120	110	100	91	62	51	43	36
12.0	10.0	680	390	220	200	180	150	130	100	75	62	51
14.0	10.0	1000	510	360	300	270	220	180	130	110	91	68
16.0	12.5		750	560	470	390	300	240	180	130	110	91
18.0	12.5				620	510	360	300	220	180	150	120
20.0	12.5					620	470	390	270	220	180	150



CKE's safety rated capacitors are intended for use on 125 Volt and 250 Volt AC power lines and for antenna coupling applications. They are small volume, low dissipation, high reliability devices with a wide selection of temperature characteristics. They are designed and certified to meet specific X & Y international safety agency requirements. They are approved by certifying agencies such as UL, VDE, CSA and others.

Applications

1. Line to line and line to ground
2. Line bypass filtering applications
3. Antenna coupling

Standard Capacitance Tolerances Available: K and M

Voltage Ratings: X1Y2 (250VAC/2500VAC) and X1Y1 (400VAC/4000VAC)

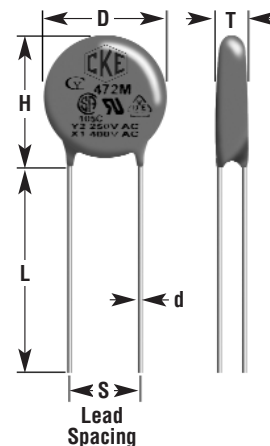
Insulation Resistance: 10000 Megohms minimum at 500VDC for 1 minute.

Construction: Ceramic disk coated with flame retardant epoxy resin.

Component Marking: As specified by approving agencies

Ordering Information:

This catalog has only typical specifications, approvals and certifications. It is important that you verify approvals, certifications and specifications for your particular application before ordering. Our sales and engineering staff will provide assistance in making selections.



CK8 Manufacturer's Code	Y5P Temperature Characteristics Code	102 Capacitor Value (pf)	K Capacitance Tolerance Code	X1Y1 Voltage Ratings	Example: CK8Y5P102KX1Y1 This is a capacitor with a Y5P temperature characteristic, a capacitance of 1000 pf, and a tolerance of $\pm 10\%$ and an X1Y1 voltage characteristic.
CK8 Capacitors	From Table	3 Digits Total 1st two are Significant Third is Multiplier	K = $\pm 10\%$ M = $\pm 20\%$	From Table	

Capacitance Tolerance K & M		Maximum Capacitance Available Temperature Coefficient			X1Y1 Series
	Maximum Diameter (mm)	Maximum Thickness (mm)	Lead Spacing (mm)	Lead Diameter (mm)	Maximum Capacitance Available (pf)
Y5P	08	8	10	0.7	100-220
Y5P	10	8	10	0.7	330-820
Y5P	12	8	10	0.7	1000
Y5U	10	8	10	0.7	1000
Y5U	12	8	10	0.7	1500
Y5U	14	8	10	0.7	2200
Y5U	16	8	10	0.7	3900-4700
Y5V	08	8	10	0.7	1000
Y5V	10	8	10	0.7	1500-2200
Y5V	12	8	10	0.7	3300
Y5V	14	8	10	0.7	4700

Capacitance Tolerance K & M		Maximum Capacitance Available Temperature Coefficient			X1Y2 Series
	Maximum Diameter (mm)	Maximum Thickness (mm)	Lead Spacing (mm)	Lead Diameter (mm)	Maximum Capacitance Available (pf)
Y5P	08	7	7.5 or 10	0.7	100-330
Y5P	10	7	7.5 or 10	0.7	470-680
Y5P	12	7	7.5 or 10	0.7	1000
Y5U	08	7	7.5 or 10	0.7	1000
Y5U	10	7	7.5 or 10	0.7	2200
Y5U	12	7	7.5 or 10	0.7	2700
Y5U	14	7	7.5 or 10	0.7	3300Y5U
Y5U	16	7	7.5 or 10	0.7	4700
Y5V	08	7	7.5 or 10	0.7	1000
Y5V	10	7	7.5 or 10	0.7	1500-2200
Y5V	12	7	7.5 or 10	0.7	3300-3900
Y5V	14	7	7.5 or 10	0.7	4700
Y5V	16	7	7.5 or 10	0.7	10000

