

CERAMIC CAPACITORS. 25V, 50V, 100V, 250V, and 500V.

Temperature Compensating (Class I)
TC (Applicable to high-frequency circuits)

Part Number Designation: (for example)

SL 101 K 1H 3 □
 Temperature Characteristics Capacitance Capacitance Tolerance Rated Voltage Leads Spacing Optional Remarks

ELECTRIC CHARACTERISTICS

1. Measuring Conditions at:

Temperature	Effective AC	Frequency
20°C	0.5V ~ 5V	1MHz ± 100KHz

2. Capacitance and Tolerance: (e.g.)

Cap. in 3 digits number		Tolerance	
Symbol	Cap.	Symbol	± Cap.
0R5	0.5pF	C	± 0.25pF
2R7	2.7pF	D	± 0.5pF
100	10pF	F	± 1pF
220	22pF	G	± 2pF
470	47pF	J	± 5%
101	100pF	K	± 10%

3. Quality Factor (Q value)

Temp. Charac.	Capacitance	Q value
P100 ~ N1500	30pF and Up	≥ 1000
	Under 30pF	≥ 400 + 20 x C (C=Cap.)

4. Temperature Characteristics

EIA RS-198		JIS	
Marking	Temperature Coefficient ppm/°C	Marking	Temperature Coefficient ppm/°C
			P: +, N: -
M7	P 100	A K	P 100 ± 250
S6	P 33	B J	P 30 ± 120
C0	NP 0	C H	NP 0 ± 60
P2	N 150	P H	N 150 ± 60
S2	N 220	R H	N 220 ± 60
T2	N 470	T H	N 470 ± 60
U2	N 750	U J	N 750 ± 120
P3	N1500	W L	N1500 ± 500
		S L	P350 ~ N1000
		Y N	N800 ~ N5800

5. Dielectric Strength:

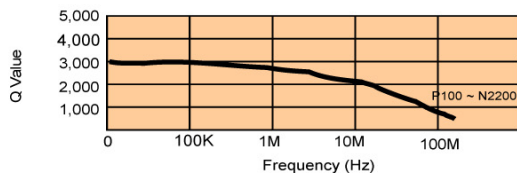
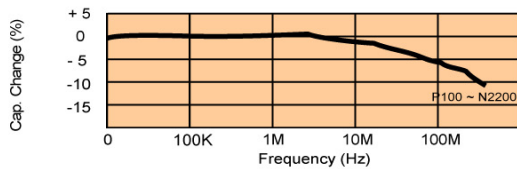
Applying 300% of Rated Voltage for 1 ~ 5 Sec.at 50mA max.

Rated Voltage	25V (1E)	50V (1H)	100V (2A)	500V (2H)
Test Voltage	75V	150V	300V	1500V

6. Insulating Resistance:

10GΩ min at rated voltage for 60 Sec.

7. Frequency Characteristics



High Dielectric Constant (Class II)
Hi-K (for By-pass & Coupling Circuits)

Part Number Designation: (for example)

YP 221 K 2H 5 □
 Temperature Characteristics Capacitance Capacitance Tolerance Rated Voltage Leads Spacing Optional Remarks

ELECTRIC CHARACTERISTICS

1. Measuring Conditions:

Temperature	Effective AC	Frequency
20°C	0.5V ~ 5V	1KHz ± 0.1KHz

2. Capacitance and Tolerance: (e.g.)

Cap. in 3 digits number		Tolerance	
Symbol	Cap.	Symbol	%
101	100pF	J	± 5
471	470pF	K	± 10
222	2.2KF	M	± 20
103	10nF	Z	+80-20
224	0.22uF	P	+100-0
105	1.0uF	N	± 30

3. Dissipation Factor (DF)

Temp. Charac.	B	D	E	F
Max. tan δ (%)	2.5	2.5	2.5	2.5

4. Temperature Characteristics

EIA RS-198				JIS 6422			
Temperature Range	Class	Capacitance Change Rate (%)	Temperature Characteristics	Capacitance Change Rate (%)	Class	Temperature Range	
+10°C ~ +85°C	Z 5	± 4.7	E A		Z	-10°C ~ +70°C	
-30°C ~ +85°C	Y 5	± 7.5	F		Y	-25°C ~ +85°C	
-55°C ~ +85°C	X 5	± 10	P B	± 10	X	-55°C ~ +85°C	
~ +105°C	6	± 15	R				
~ +125°C	7	± 22	S				
		+22 ~ -33	T D	+20 ~ -30			
		+22 ~ -56	U E	+20 ~ -55			
		+22 ~ -82	V F	+30 ~ -80			

5. Dielectric Strength:

Applying 300% of Rated Voltage for 1 ~ 5 Sec.at 50mA max.

Rated Voltage	25V (1E)	50V (1H)	100V (2A)	500V (2H)
Test Voltage	75V	150V	300V	1500V

6. Insulating Resistance:

10GΩ min at rated voltage for 60 Sec.

7. Frequency Characteristics

