

# CERAMIC DISC CAPACITORS-(HiK)

## EIA RS198 CLASS 2 JIS C 6422 TYPE II

### FEATURES

- Large capacitance in small size
- Non linear temperature coefficient of capacitance

### Part Code Designation

Example	H (1)	B (2)	1H (3)	471 (4)	K (5)	-	K (6)	5 (7)	5 (8)	5 (9)	B (10)
---------	----------	----------	-----------	------------	----------	---	----------	----------	----------	----------	-----------

### 1. Class II—type ‘H’

### 2. Temperature coefficient (Ref. Fig 2)

Code	Temp. Range	Cap. Change	EIA Code	Cap. Change
B	-25°C +85°C	±10%	Y5P	±10%
E	+10°C ~ +85°C	+22% -55%	Z5U	+20% -56%
F	+85°C	+30% -80%	Z5V	+22% -82%

### 3. Rated Voltage (D.C.)

Code	Voltage	Code	Voltage
1C	16V	2A	100V
1E	25V	2H	500V
1H	50V	3A	1KV
1J	63V		

### 4. Rated capacitance

Code	Cap. (PF)	Code	Cap. (PF)
101	100PF	821	820 PF
121	120PF	102	1,000 PF
151	150PF	152	1,500 PF
181	180PF	222	2,200 PF
221	220PF	332	3,300 PF
271	270PF	472	4,700 PF
331	330PF	682	6,800 PF
391	390PF	103	10,000 PF
471	470PF	223	22,000 PF
561	560PF	473	47,000 PF
681	680PF	104	100,000PF

### 5. Tolerance on rated capacitance

Code	Tolerance	Rated Cap(PF)
K	±10%	B
M	±20%	B, E
Z	+80% -20%	E, F

### 6. Lead Shape. (Ref. Fig. 3.)

Code	Type	
K	Bulk	Short Kink
S		Short Straight
L		Long Straight
A	Taping	
B		

### 7. Lead Spacing. (F)

Code	Dimension. (mm)		
	K	S	L
2	---	2.5±0.8	2.5±0.8
5	5.0±0.8	5.0±0.8	5.0±0.8
6	---	6.3±0.8	6.3±0.8
7	---	7.5±0.8	7.5±0.8
0	10.0±0.8	---	10.0±0.8

### 8. Lead Length. (F)

Code	Dimension (mm)		
	K	S	L
5	5.0±0.8	5.0±0.8	
6	6.3±0.8	6.3±0.8	
0	10.0±0.8	10.0±0.8	
1	---	---	25min

### 9. Lead Wire. (d)

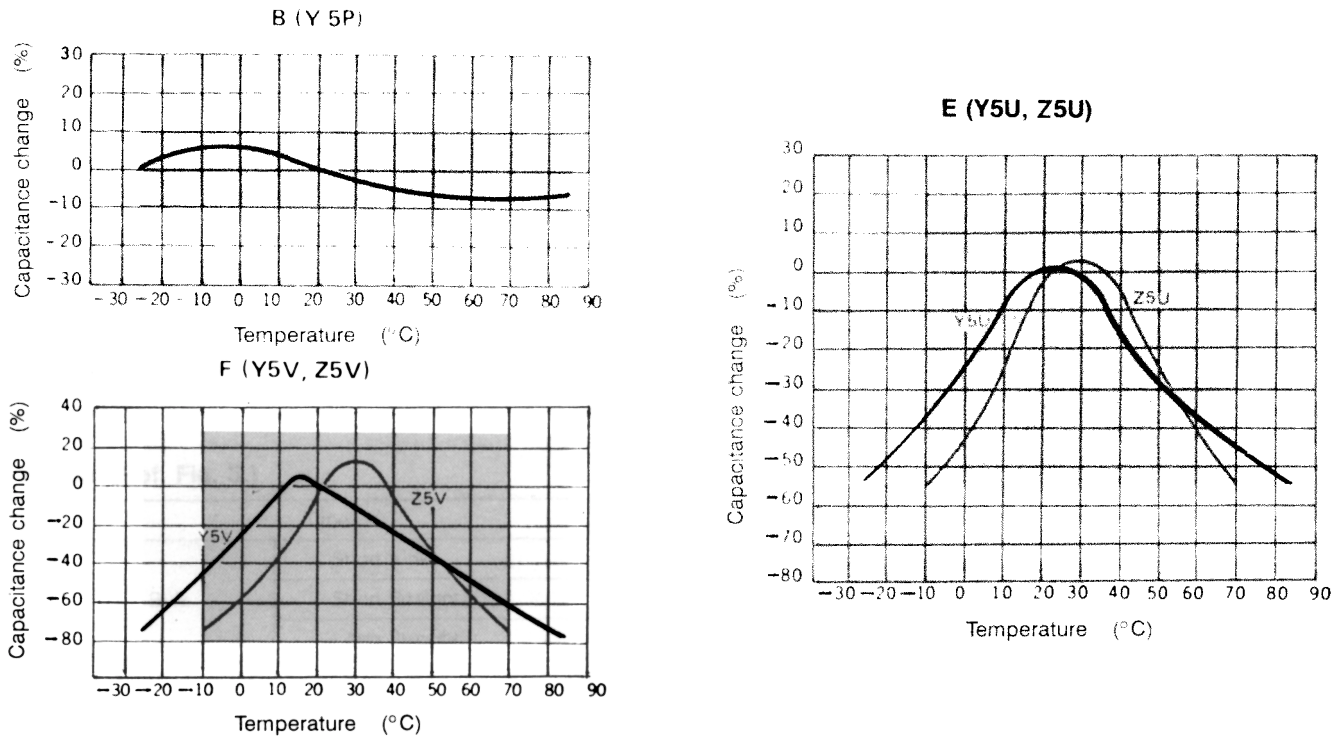
Code	Dia(φmm)	Rated Voltage (D.C.)
5	0.5±0.05	16V-500V
6	0.6±0.05	16V-1KV

### 10. Package

Code	Package	Q'ty
B	Bulk	1000pcs
A	Ammo Pack	2000pcs
R	Tape & Reel	2500pcs

**CERAMIC DISC CAPACITORS-(HiK)  
EIA RS198 CLASS 2 JIS C 6422 TYPE II**

**Fig. 2 (T.C. %)**



**Dimension & Capacitance Range**

Dia. (D) max	Dimension (mm)			Capacitance Range (PF)								
	Lead Spacing (F)			50V			500V			1KV		
	K	S	L	B	E	F	B	E	F	B	E	F
5.0	5.0±0.8 to 10.0±0.8	2.5±0.8 to 10.0±0.8	2.5±0.8 to 10.0±0.8	151-222	102-502	102-103	151-561	202-222	202-332	101-471	---	---
6.0				272-332	682-822	153-223	681-102	272-392	472-502	561-102	102	102
7.0				342-392	103	---	152-202	---	682-822	---	152-222	152-222
8.0				472-562	---	---	222-302	472-502	822-103	122-152	332	272-472
9.0				682-822	---	---	332	---	---	202-222	392	502-682
10.0				103	203-223	---	392-472	103	---	272-332	472	822-103
12.0				---	---	---	---	---	223	---	103	153
14.0				---	---	---	103	223	333	472-	153	223
16.0	---	---	---	---	---	473	---	223	333			

**SPECIFICATION & TEST**

No.	Item	Performance	Test Method
1.	Visual & Mechanical	To meet the specification	The product shall be inspected for visible evidence of defect
2.	Marking	To be clear and legible	Marking shall be tested with ace ton
3.	Voltage Proof (Between terminal)	No failure	2.5 times the rated voltage shall be applied for 1 to 5 sec. Charging and discharging current shall be limited to 50mA max
4.	Insulation resistance	10,000MΩ min	Shall be measured 1 minute after with rated voltage
5.	Capacitance	To be within the specified tolerance	Test frequency : 1KHz ±100Hz Test voltage shall not exceed 5Vrms at 25±2°C
6.	Dissipation Factor (Tan δ) (%)	Characteristic B, E : 2.5% max F : 5% max	Same condition as above (Item 5)