



# Ceramic Disc Capacitors - (HI-K) EIA RS198 CLASS II, JIS C6422 TYPE H

## Features

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

## Part No. Designation

Example	H	B	1H	471	K	-	K	5	5	5	B
	(1)	(2)	(3)	(4)	(5)		(6)	(7)	(8)	(9)	(10)
	Type	TC	Voltage	Capacitance	Tolerance		Lead Shape	Lead Spacing	Lead Length	Lead Wire	Package

### 1. Class 2-Type " H "

### 2. Temperature Coefficient (Ref. Fig 2) #Page 5

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		+30% -80%	Z5V	+22% -82%

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

Code	Voltage	Code	Voltage
1H	50V	2H	500V
1J	63V	2J	630V
2A	100V	3A	1KV

### 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	392	3,900 PF
331	330PF	472	4,700 PF
391	390PF	682	6,800 PF
471	470PF	822	8,200 PF
561	560PF	103	10,000 PF
681	680PF		

### 5. Tolerance On Rated Capacitance

Code	Tolerance	Rated T.C.
K	±10%	B
M	±20%	B, E
Z	+80-20%	E, F

### 6. Lead Shape. (Ref. Fig. 3.) #Page 10, 11

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

### 7. Lead Spacing. (F)

Code	Dimension. (mm)		
	K	S	L
2	---	2.54±0.8	2.54±0.8
5	5.08±0.8	5.08±0.8	5.08±0.8
6	---	6.35±0.8	6.35±0.8
7	---	7.52±0.8	7.52±0.8
0	9.53±0.8	9.53±0.8	9.53±0.8

### 8. Lead Length. (L)

Code	Dimension (mm)		
	K	S	L
5	5.0±0.8	5.0±0.8	
6	6.0±0.8	6.0±0.8	
0	10.0±0.8	10.0±0.8	
1	---	---	25min

### 9. Lead Wire. (d)

Code	Dia(φ mm)	Rated Voltage (D.C.)
5	0.5±0.05	50V~500V
6	0.6±0.05	1KV

\* Taping type lead dia. 0.6mm only.

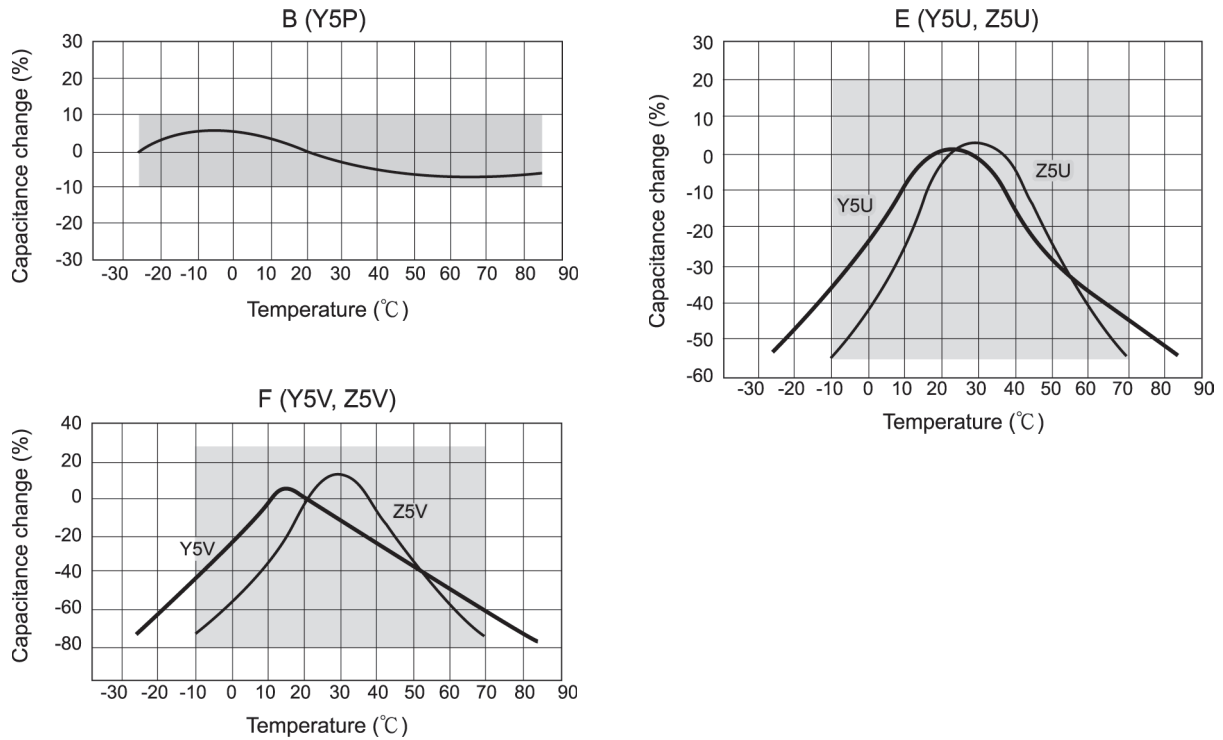
### 10. Package

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

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Fig. 2 (T.C. %)



Dimension & Capacitance Range

Dimension. (mm)				Capacitance Range (pF)								
Dia. (D) max	Lead Spacing (F)			50V ~ 63V			500V ~ 630V			1KV		
	K	S	L	B	E	F	B	E	F	B	E	F
5.5				151 - 222	102 - 502	102-103	151 - 681	102 - 222	102 - 222	101 - 681	102 - 122	102 - 122
6.5				272 - 332	562 - 822	153-223	821 - 102	272 - 392	332 - 472	821 - 102	152 - 222	152 - 222
7.5				342 - 472	103 - 123	---	152 - 202	402 - 472	562 - 682	122	272	272 - 472
8.5	5.0±0.8	2.5±0.8	2.5±0.8	562 - 682	153	---	222 - 302	502 - 682	822-103	152 - 182	332 - 502	562 - 103
9.5	to	to	to		183 - 203	---	332	---	---	202 - 222	562	---
10.5	10.0±0.8	10.0±0.8	10.0±0.8		223	---	392 - 472	103	---	272 - 332	103	---
12.5				---	---	---	502 - 682	---	223	392 - 472	123 - 153	153
14.5				---	---	---	103	223	333	103	183	223
16.5				---	---	---	---	---	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)