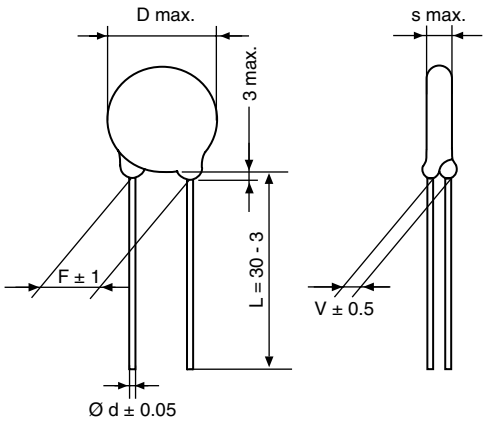
Ceramic Pulse Disc Capacitors, Class 2



Dimensions in mm

FEATURES
- Compliant to RoHS directive 2002/95/EC

RoHS COMPLIANT

DESIGN
Disc capacitor with epoxy coating

RATED VOLTAGE (U_R)

HAK	1 kV_{DC}
HBK	2 kV_{DC}
HCK	3 kV_{DC}
HIK	15 kV_{DC}

DIELECTRIC STRENGTH BETWEEN LEADS
Component test

HAK	2000 V_{AC}, 50 Hz, 2 s
HBK	3000 V_{AC}, 50 Hz, 2 s
HCK	4000 V_{AC}, 50 Hz, 2 s
HIK	22 500 V_{DC}, 2 s

TEMPERATURE CHARACTERISTIC OF CAPACITANCE
See curve (next page)

CATEGORY TEMPERATURE RANGE (ϑ_A)
- 40 °C to + 125 °C

CLIMATIC CATEGORY TO EN60068-1
4/125/21

COATING
Epoxy dipped, insulating, flame retarding acc. to UL 94 V-0

TAPING AND SPECIAL LEAD CONFIGURATIONS
On request

DISSIPATION FACTOR (tan δ)
$\leq 5 \times 10^{-3}$

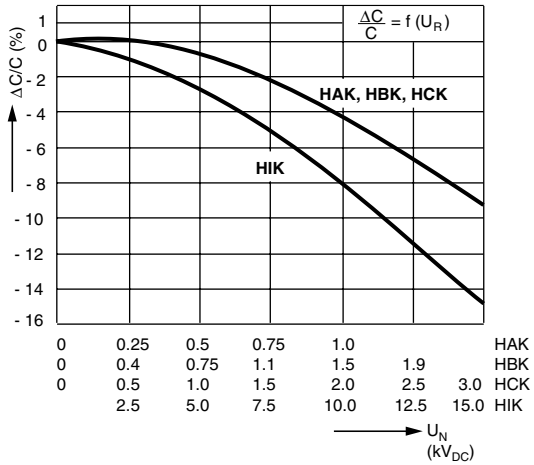
INSULATION RESISTANCE (I_R)

HAK, HBK, HCK	$\geq 10 \times 10^9\ \Omega$
HIK	$\geq 10 \times 10^{10}\ \Omega$

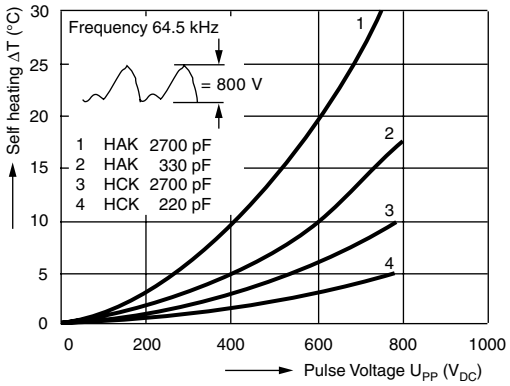
MARKING

• Capacitance value	- Clear text
• Capacitance tolerance	- With letter code
• Rated voltage	- Clear text
• Manufacturers logo	- Where D ≥ 11 mm only
• Type designation	- HAK, HBK, HCK only

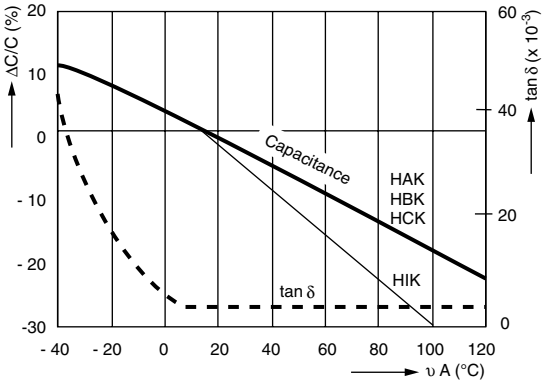
CAPACITANCE CHANGE VS. VOLTAGE



SELF HEATING



CAPACITANCE CHANGE AND DISSIPATION FACTOR VS. TEMPERATURE



ORDERING INFORMATION

HIK	471	M	BJ	EF0	K	R
MODEL	CAPACITANCE VALUE	TOLERANCE	RATED VOLTAGE	LEAD CONFIGURATION	INTERNAL CODE	RoHS COMPLIANT

ORDERING INFORMATION, CERAMIC PULSE DISC CAPACITORS, 1 kV_{DC}							
C (pF)	TOL. (%)	D x s (mm)	F ± 1 (1) (mm)	d ± 0.05 (1) (mm)	V ± 0.5 (1) (mm)	CERAMIC CODE	ORDERING CODE
CLASS 2	K 1500						
100	± 20 % (± 10 %) (2)	7.0 x 5.0	7.5	0.6	1.1		HAK101□BA□□□KR
150		7.0 x 5.0					HAK151□BA□□□KR
220		7.0 x 5.0					HAK221□BA□□□KR
270		7.0 x 5.0					HAK271□BA□□□KR
330		7.0 x 5.0					HAK331□BA□□□KR
390		7.0 x 5.0					HAK391□BA□□□KR
470		7.0 x 5.0					HAK471□BA□□□KR
560		8.0 x 5.0					HAK561□BA□□□KR
680		8.0 x 5.0					HAK681□BA□□□KR
820		9.0 x 5.0					HAK821□BA□□□KR
1000		9.0 x 5.0					HAK102□BA□□□KR
1200		10.0 x 5.0					HAK122□BA□□□KR
1500		11.0 x 5.0					HAK152□BA□□□KR
1800		12.0 x 5.0					HAK182□BA□□□KR
2200		12.0 x 5.0					HAK222□BA□□□KR
2700		14.5 x 5.0					HAK272□BA□□□KR
3300		14.5 x 5.0					HAK332□BA□□□KR
3900		15.5 x 5.0					HAK392□BA□□□KR
4700		16.5 x 5.0					HAK472□BA□□□KR

ORDERING INFORMATION, CERAMIC PULSE DISC CAPACITORS, 2 kV_{DC}							
C (pF)	TOL. (%)	D x s (mm)	F ± 1 (1) (mm)	d ± 0.05 (1) (mm)	V ± 0.5 (1) (mm)	CERAMIC CODE	ORDERING CODE
CLASS 2	K 1500						
100	± 20 % (± 10 %) (2)	7.0 x 5.0	7.5	0.6	1.6		HBK101□BF□□□KR
150		7.0 x 5.0					HBK151□BF□□□KR
220		7.0 x 5.0					HBK221□BF□□□KR
270		7.0 x 5.0					HBK271□BF□□□KR
330		7.0 x 5.0					HBK331□BF□□□KR
390		8.0 x 5.0					HBK391□BF□□□KR
470		8.0 x 5.0					HBK471□BF□□□KR
560		9.0 x 5.0					HBK561□BF□□□KR
680		9.0 x 5.0					HBK681□BF□□□KR
820		10.0 x 5.0					HBK821□BF□□□KR
1000		11.0 x 5.0					HBK102□BF□□□KR
1200		11.0 x 5.0					HBK122□BF□□□KR
1500		12.5 x 5.0					HBK152□BF□□□KR
1800		14.5 x 5.0					HBK182□BF□□□KR
2200		14.5 x 5.0					HBK222□BF□□□KR
2700		16.5 x 5.0					HBK272□BF□□□KR
3300		17.5 x 5.0					HBK332□BF□□□KR
3900		19.5 x 5.0					HBK392□BF□□□KR
4700		25.0 x 5.0					HBK472□BF□□□KR

Notes
(1) Standard lead configuration, other lead spacing and diameter available on request.
(2) ± 10 % available on request.

ORDERING CODE			
□	7th digit	Capacitance tolerance	± 10 % = K ± 20 % = M
□□□	10th to 12th digit	Lead configuration (See General Information)	
R	14th digit	RoHS Compliant Component	

ORDERING INFORMATION, CERAMIC PULSE DISC CAPACITORS, 3 kV_{DC}							
C (pF)	TOL. (%)	D x s (mm)	F ± 1 [1] (mm)	d ± 0.05 [1] (mm)	V ± 0.5 [1] (mm)	CERAMIC CODE	ORDERING CODE
CLASS 2	K 1500						
100	± 20 % (± 10 %) [2]	7.0 x 5.0	10.0	0.6	1.1		HCK101☐BC☐☐☐KR
150		7.0 x 5.0					HCK151☐BC☐☐☐KR
220		7.0 x 5.0					HCK221☐BC☐☐☐KR
270		7.0 x 5.0					HCK271☐BC☐☐☐KR
330		8.0 x 5.0					HCK331☐BC☐☐☐KR
390		9.0 x 5.0					HCK391☐BC☐☐☐KR
470		9.0 x 5.0					HCK471☐BC☐☐☐KR
560		10.0 x 5.0					HCK561☐BC☐☐☐KR
680		10.0 x 5.0					HCK681☐BC☐☐☐KR
820		11.0 x 5.0					HCK821☐BC☐☐☐KR
1000		12.0 x 5.0					HCK102☐BC☐☐☐KR
1200		13.0 x 5.0					HCK122☐BC☐☐☐KR
1500		15.0 x 5.0					HCK152☐BC☐☐☐KR
1800		16.0 x 5.0					HCK182☐BC☐☐☐KR
2200		17.0 x 5.0					HCK222☐BC☐☐☐KR
2700		18.0 x 5.0					HCK272☐BC☐☐☐KR
3300		20.0 x 5.0					HCK332☐BC☐☐☐KR

ORDERING INFORMATION, CERAMIC PULSE DISC CAPACITORS, 15 kV_{DC}							
C (pF)	TOL. (%)	D x s (mm)	F ± 1 [1] (mm)	d ± 0.05 [1] (mm)	V ± 0.5 [1] (mm)	CERAMIC CODE	ORDERING CODE
CLASS 2	K 1500						
100	± 20 % (± 10 %) [2]	8.0 x 8.0	12.5	0.6	5.0		HIK101☐BJ☐☐☐KR
120		9.0 x 8.0					HIK121☐BJ☐☐☐KR
150		9.0 x 8.0					HIK151☐BJ☐☐☐KR
180		10.0 x 8.0			5.2		HIK181☐BJ☐☐☐KR
220		10.0 x 8.0					HIK221☐BJ☐☐☐KR
270		11.0 x 8.0					HIK271☐BJ☐☐☐KR
330		11.5 x 8.0					HIK331☐BJ☐☐☐KR
390		13.0 x 8.4					HIK391☐BJ☐☐☐KR
470		15.0 x 8.4			5.4		HIK471☐BJ☐☐☐KR
560		15.0 x 8.4					HIK561☐BJ☐☐☐KR
680		16.0 x 8.4					HIK681☐BJ☐☐☐KR
820		18.5 x 8.4			5.6		HIK821☐BJ☐☐☐KR
1000		20.0 x 8.4					HIK102☐BJ☐☐☐KR
1200		24.0 x 9.0			5.8		HIK122☐BJ☐☐☐KR
1500		24.0 x 9.0					HIK152☐BJ☐☐☐KR

Notes

[1] Standard lead configuration, other lead spacing and diameter available on request.

[2] ± 10 % available on request.

ORDERING CODE			
☐	7th digit	Capacitance tolerance	± 10 % = K ± 20 % = M
☐☐☐	10th to 12th digit	Lead configuration (see General Information)	
R	14th digit	RoHS compliant component	

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