

# Type HV High Voltage Capacitors

## Oil Filled/Impregnated, AC Rated, Metallized Polypropylene Capacitors



Type HV capacitors are constructed with low loss self healing metallized polypropylene film. Packaged in a cylindrical and oval metal cases. Type HV capacitors are ideal for AC filtering, CVT filtering/snubbing, line current reduction and voltage regulation in power supply applications.

### Highlights

- Self healing
- Protected
- Low energy consumption
- AC filtering
- Power supply filter/regulator
- CVT filter/snubber

### Specifications

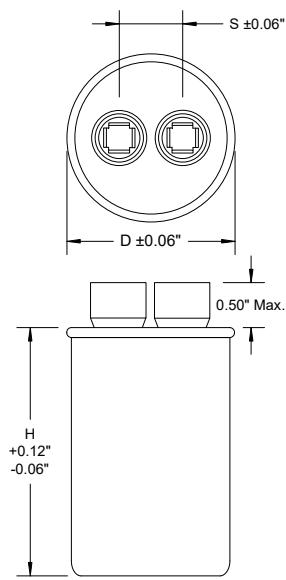
Capacitance Range	0.5 $\mu$ F to 13 $\mu$ F
Capacitance Tolerance	$\pm 5\%$ standard, $\pm 10\%$ , $\pm 6\%$ and $\pm 3\%$ available
Rated Voltage	1000 Vac, 2000 Vac, 2500 Vac and 4000 Vac
Operating Temperature Range	-40 °C to 70 °C
Rated Frequency	50 Hz and 60 Hz
Rated Current	15 A <sub>rms</sub> , fundamental plus any harmonics
Life	60,000 h with 94% survival rate
RoHS Compliant	

### Dimensions

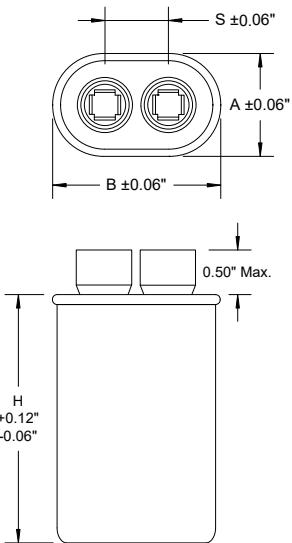
#### Construction Details

Case Material	Aluminum
Encapsulation	Environmentally Safe Dielectric Fluid
Terminal Material	Tin Plated Steel

#### Round Case Style



#### Oval Case Style



Case Code	Dimensions (Inches)			
	A	B	S	H
A	1.31	2.16	0.81	See Ratings Table
C	1.91	2.91	0.81	
D	1.97	3.66	1.624	

Case Code	Dimensions (inches)		
	D	S	H
P	1.87	0.81	See Ratings Table
T	2.62	0.81	

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### Part Numbering System

HV	C	KA	S	35	J	291	B
Series	Case	AC Volt	Case Material	Cap	Tol. ±%	Can Height	VAR
HV	A = 1 1/4" Oval	KA = 1000 Vac	S = Steel case and cover	7 = 7.0 µF	J = ±5%	238 = 2.38"	B = 4 way 70 °C
	C = 1 3/4" Oval	LA = 2000 Vac	T = Aluminum	35 = 35.0 µF	L = ±3%	291 = 2.91"	D = 4 way 90 °C
	D = 2.0" Oval	LL = 2500 Vac	w/steel cover		H = ±6%	388 = 3.88"	Z = Other
	P = 1 3/4" Round	MA = 3000 Vac			K = ±10%	475 = 4.75"	
	T = 2 1/2" Round	NA = 4000 Vac				488 = 4.88"	

### Ratings

CDE Catalog Number	Cn (µF)	Case Code	Case Height	
1000 Vrms				
HVPKAT3J475B	3	P	4.75	121
HVPKAT5J475B	5	P	4.75	121
HVTKAT8J475B	8	T	4.75	121
HVTKAT10J475B	10	T	4.75	121
HVTKAT13J603B	13	T	6.03	153
HVAKAT3J288B	3	A	2.88	73
HVAKAT5J475B	5	A	4.75	121
HVCKAT8J391B	8	C	3.91	99
HVCKAT10J475B	10	C	4.75	121
HVDKAT13J475B	13	D	4.75	121
2000Vrms				
HVDLAT1J475B	1	D	4.75	121
HVDLAT3J475B	3	D	4.75	121
HVDLAT5J578B	5	D	5.78	147
2500Vrms				
HVDLCT1J475B	1	D	4.75	121
HVDLCT2J578B	2	D	5.78	147
HVDLCT3J578B	3	D	5.78	147
3000Vrms				
HVDMAT1J391B	1	D	3.91	99
HVDMAT2J578B	2	D	5.78	147
HVDMAT3J750B	3	D	7.50	191
4000Vrms				
HVDNAT0.5J475B	0.5	D	4.75	121
HVDNAT1J578B	1	D	5.78	147
HVDNAT1.8J959B	1.8	D	9.59	244

### Options

Aluminum cans, with and without studs, are available upon request.

Additional tolerances such as ±3%, ±6% and ±10% are available.

+90 °C ratings are available

Discharge resistors are available.

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