

# 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, oval and rectangular 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

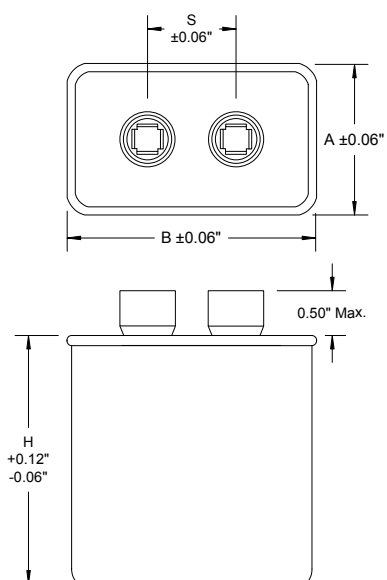
### Specifications

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 with Ripple	-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	

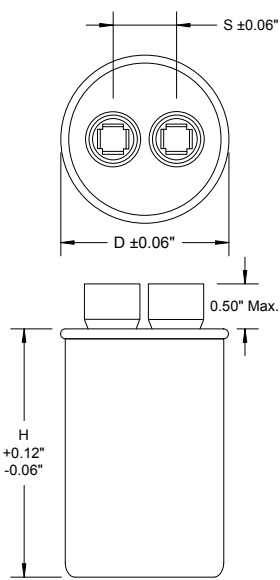
### Dimensions

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

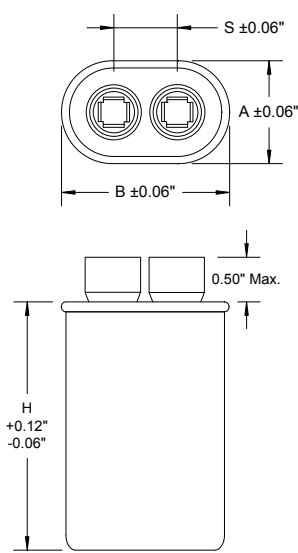
#### Rectangular Case Style



#### Round Case Style



#### Oval Case Style



Dimensions (Inches)				
Case Code	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	
R	2.84	4.56	1.624	

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

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### Part Numbering System

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

### Ratings

CDE Catalog Number	Cn (µF)	Case Code	Case Height	
			(in)	(mm)
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
HVCKAT8J291B	8	C	3.91	99
HVCKAT10J491B	10	C	4.75	121
HVDKAT13J491B	13	D	4.75	121
2000Vrms				
HVALAT1J475B	1	D	4.75	121
HVDLAT3J491B	3	D	4.75	121
HVDLAT5J578B	5	D	5.78	147
2500Vrms				
HVCLCT1J391B	1	D	4.75	121
HVCLCT2J491B	2	D	5.78	147
HVDLCT3J578B	3	D	5.78	147
3000Vrms				
HVCMAT1J391B	1	D	3.91	99
HVDMAT2J491B	2	D	5.78	147
HVDMAT3J753B	3	D	7.50	191
4000Vrms				
HVCNAT0.5J491B	0.5	D	4.75	121
HVDNAT1J578B	1	D	5.78	147
HVRNAS1.8J603B	1.8	R	6.03	153

### Options

Tinplated steel or 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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