Type HES 105 °C High Energy Screw Terminal Aluminum Electrolytic

High Power Input Filtering, Screw Terminal Capacitors



Type HES screw terminal, aluminum electrolytic capacitors have excellent reliability and are ideal for high power input and charge-discharge applications for welders and strobe lights. The HES can be operated at 105 °C at full rated voltage

Highlights -

- High reliability 1000 hours at 105 °C
- Great for charge-discharge applications
- Ideal for high power input filter applications
- Operates at 105 °C at full rated voltage

RoHS Compliant

Specifications

Capacitance Range: 300 to 5,600 µF **Voltage Range:**

350 to 450 WVdc

Capacitance Tolerance: Operating Temperature:

-0% +50% -40 °C to +105 °C

Ripple Current Multipliers:

Ambient Temperature

+25 °C	+35 °C	+45 °C	+55 °C	+65 °C	+85 °C
2.00	1.88	1.72	1.58	1.42	1.00

Rated	Frequency / Ripple Multiplier				
Voltage	120 Hz	400 Hz	1000 Hz	2500 Hz	10 kHz
350 to 450	1.000	1.080	1.113	1.175	1.230

DC Leakage Current: $1 \le 3\sqrt{CV}$ after 5 minutes

Not to exceed 4.0 mA C = Capacitance in µF V = Rated Voltage

I = Leakage current in mA

QA Stability Test: Life test:

1000 h @ +105 °C

Ripple Test:

2000 h, full load @ +85 °C

Shelf test:

500 h @ +105 °C

Click here to see: Hardware & Mounting **Options**

Click here to see: Mechanical Details

Type HES 105 °C High Energy Screw Terminal Aluminum Electrolytic Ratings

		Typical	Max Ripple			
	Catalog	Max ESR	120 Hz			
Сар	Part Number	120 Hz	+85 °C	Dia.	Length	
(μF)		(Ω)	(A) RMS	(Inches)	(Inches)	
	350 WVdc (400 Vdc Surge)					
600	HES601G350V2C	0.173	2.6	2.00	2.125	
900	HES901G350V5C	0.110	4.6	2.00	5.125	
1,100	HES112G350V3C	0.099	4.0	2.00	3.125	
1,400	HES142G350W5C	0.080	6.2	2.50	5.125	
1,600	HES162G350V4C	0.062	5.6	2.00	4.125	
1,900	HES192G350V4L	0.053	6.4	2.00	4.625	
2,500	HES252G350W4C	0.045	7.4	2.50	4.125	
3,100	HES312G350X3L	0.040	8.6	3.00	3.625	
3,400	HES342G350W5C	0.034	9.4	2.50	5.125	
3,700	HES372G350X4C	0.034	9.8	3.00	4.125	
4,400	HES442G350X4L	0.029	11.0	3.00	4.625	
5,000	HES502G350X5C	0.026	12.1	3.00	5.125	
5,600	HES562G350X5L	0.024	13.2	3.00	5.625	
400 WVdc (450 Vdc Surge)						
300	HES301G400U3C	0.275	2.2	1.75	3.125	
500	HES501G400V2C	0.180	2.6	2.00	2.125	
1,300	HES132G400V4C	0.066	5.4	2.00	4.125	
2,000	HES202G400V5L	0.044	7.3	2.00	5.625	
2,000	HES202G400W4C	0.048	7.3	2.50	4.125	
2,100	HES212G400X5L	0.045	9.5	3.00	5.625	
3,000	HES302G400W5L	0.033	9.9	2.50	5.625	
3,500	HES352G400X4L	0.031	10.7	3.00	4.625	
4,100	HES412G400X5C	0.027	11.9	3.00	5.125	
4,600	HES462G400X5L	0.025	13.0	3.00	5.625	

		Typical	Max Ripple			
	Catalog	ESR	120 Hz			
Сар	Part Number	120 Hz	+85 °C	Dia.	Length	
(µF)		(Ω)	(A) RMS	(Inches)	(Inches)	
	450 WVdc (525 Vdc Surge)					
300	HES301G450V3C	0.268	2.4	2.00	3.125	
400	HES401G450V3L	0.203	2.9	2.00	3.625	
550	HES551G450V4C	0.150	3.6	2.00	4.125	
700	HES701G450V3C	0.125	3.5	2.00	3.125	
1,200	HES122G450X4L	0.069	7.1	3.00	4.625	
1,500	HES152G450X5L	0.056	8.5	3.00	5.625	
1,600	HES162G450V5L	0.053	6.9	2.00	5.625	
1,700	HES172G450W4C	0.051	7.1	2.50	4.125	
2,000	HES202G450X5L	0.041	9.7	3.00	5.625	
2,200	HES222G450X5L	0.040	10.1	3.00	5.625	
2,400	HES242G450W5C	0.038	9.0	2.50	5.125	
2,700	HES272G450W5L	0.034	9.9	2.50	5.625	
3,600	HES362G450X5C	0.028	11.7	3.00	5.125	
4,000	HES402G450X5L	0.025	12.7	3.00	5.625	

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Mouser Electronics

Authorized Distributor

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Cornell Dubilier:

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HES551G450V4C
HES142T350W5C6PH
HES112G350V3C
HES122G450X4L
HES132G400V4C

HES142G350W5C
HES152G450X5L
HES162G350V4C
HES162G450V5L
HES172G450W4C
HES192G350V4L

HES202G400V5L
HES202G400W4C
HES202G450X5L
HES212G400X5L
HES242G450W5C
HES252G350W4C

HES272G450W5L
HES301G400U3C
HES301G450V3C
HES302G400W5L
HES312G350X3L
HES342G350W5C

HES352G400X4L
HES362G450X5C
HES372G350X4C
HES401G450V3L
HES412G400X5C
HES442G350X4L

HES462G400X5L
HES502G350X5C
HES562G350X5L
HES601G350V2C
HES701G450V3C
HES901G350V5C

HES222G450X5L
HES402G450X5L
HES501G400V2C
HES701G450V3C
HES901G350V5C
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