Type HES 105 °C High Energy Screw Terminal Aluminum Electrolytic

High Power Input Filtering, Screw Terminal Capacitors

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Specifications

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

Ambient Temperature

Capacitance Range: 300 to 5,600 µF 350 to 450 WVdo Voltage Range: **Capacitance Tolerance:** -0% +50% **Operating Temperature:** -40 °C to +105

Ripple Current Multipliers:

+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: $| \le 3\sqrt{CV}$ after 5 minutes 500 (4)

QA Stability Test:

Life test: 1000 h @ +105 °C Ripple Test: 2000 h, full load @ +85 °C Shelf test: 500 h @ +105 °C

I = Leakage current in mA

Not to exceed 4.0 mA $C = Capacitance in \mu F$ V = Rated Voltage

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			
Can	Part Number	120 Hz	+85 °C	Dia.	Longth
Сар	Fait Number				Length (Inches)
(µF)	250 \//	(Ω) /dc (400 Ve	(A) RMS	(inches)	(inches)
600	HES601G350V2C	0.173	2.6	2.00	2.125
600		0.173	2.0 4.6		
	HES901G350V5C			2.00	5.125
	HES112G350V3C		4.0	2.00	3.125
,	HES142G350W5C	0.080	6.2	2.50	5.125
	HES162G350V4C	0.062	5.6	2.00	4.125
	HES192G350V4L	0.053	6.4	2.00	4.625
	HES252G350W4C	0.045	7.4	2.50	4.125
	HES312G350X3L	0.040	8.6	3.00	3.625
	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 W\	/dc (450 V	dc 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
	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	HES2720450W5L	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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