

Data Sheet

Customer:		

<u>Product: Aluminum Electrolytic Capacitors – EHP Series</u>

Size: 22x25mm ~ 40x70mm

Issued Date: 5-May.-2016

Edition: Ver. 1

Record of change

Date	Ver.	Description	Page
5-May-2016	1		

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5-May-2016	5-May-2016	5-May-2016	
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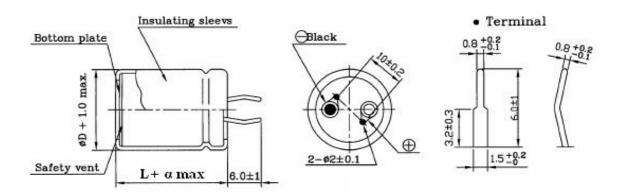


- 105°C 2000 hours assured load life.
- Directly mountable on printed circuit board without holders.
- Rohs compliant
- Aluminum case designed explosion-proof vent.

Characteristics

Voltage Range		10 ~ 100V			10	60 ~ 450V									
Capacitance Range	56	0 ~ 47000uF	1		47	7 ~ 2200uF	ı								
Temperature Range	-4	40 ~ +105°C			-2	5 ~ +105°C									
Capacitance Tolerance		±20% at	120Hz, 20℃(10% Tol. is a	wailable u	pon reques	t)								
Leakage Current		$I = 3\sqrt{CV}$ (1	uA) max C:	Capacitance,	V:W.V. (A	fter 5 minu	ites)								
Dissipation Factor (tanδ)	Less than the val	lue under tab	ole (%)												
(at 20°C, 120Hz)	uF ∖\ W.V.	10 ~ 16	25~35	50~63	80~100	160~250	315~450	500							
	47 ~ 390														
	470 ~3900														
	4700~8200)~8200 35 30 30 25													
	10000~22000	40	35	30											
	27000~47000	45	40	35											
	56000~68000	00~68000 50 45													
Stability at Low Temperature	Impedance ratio	n at 120Hz b	etween the -25	5°C or -40°C ¬	value and 2	20°C value	shall not ex	xceed:							
	RWC (V)	npedance ration at 120Hz between the -25°C or -40°C value and 20°C value shall not exceed: RWC (V) $10\sim16$ 25 $35\sim100$ 160 $200\sim250$ $350\sim450$ 500													
	Z-25°C/Z 20°C	5	4	4	4	4	8	10							
	Z-40°C/Z 20°C	15	15	12	-										
Load Life	The following sp														
	working voltage	applied for 2	2,000 hours at	max. opera	ting tempe	erature with	the rated i	ripple							
	current.														
		pacitance ch	_	% of the initia											
		ssipation fact		0% of the init		ed value									
		akage curren		initial specifi											
Shelf Life	After storage for														
	specified limit in			or measureme	nt shall be	conducted	after appli	cation of							
	DC working vol	tage for 30 n	nınutes.												

Diagram of Dimensions: unit(mm)



Multiplier for Ripple Current VS Frequency

	11			•		
Cap.(uF)\\ (Hz)	50(60)	120	400	1K	10K	50K-100K
10 <cap.≤100< th=""><th>0.8</th><th>1</th><th>1.23</th><th>1.36</th><th>1.48</th><th>1.53</th></cap.≤100<>	0.8	1	1.23	1.36	1.48	1.53
100 < Cap. ≤ 1000	0.8	1	1.16	1.25	1.35	1.38
1000 < Cap.	0.8	1	1.11	1.17	1.25	1.28

Dia	22 ~ 25	30 ~ 40
α	2	3





Standard Products Table

W.V.				1	.0							1	6			
Dimension	A	\	I	3	(7)	I)	A	1	H	3	(7	I)
Cap. (uF)	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC
10000	22x30	2.20	25x25	2.20	30x25	2.20			22x30	2.97	25x25	2.97				
12000	22x30	2.34	22x35	2.49	25x25	2.40			22x35	3.06	25x30	3006	30x25	3.06		
15000	22x35	2.76	25x25	2.60	25x30	2.76	30x25	2.80	22x40	3.24	25x35	3.24	30x25	3.24	35x20	3.24
18000	22x35	2.94	25x30	2.94					22x50	3.51	25x45	3.51	30x35	3.51	35x30	3.54
22000	22x40	3.12	25x35	3.12	30x30	3.30	35x25	3.20	25x45	4.08	30x35	4.08	35x30	4.08		
27000	22x45	3.48	25x35	3.48	30x30	3.48	35x25	3.48	25x50	4.30	30x40	4.30	35x30	4.30		
33000	25x45	3.72	30x35	3.72	35x25	3.65	35x30	3.85	30x45	4.83	35x35	4.83				
39000	25x50	4.10	30x40	4.10	35x30	4.10			30x50	5.78	35x40	5.78				
47000	30x45	4.38	35x35	4.38					35x45	6.32						
56000	30x50	4.64	35x40	4.64					35x50	7.05						
68000	35x50	4.80														

W.V.				2	5							3	5			
Dimension	A	1	F	3	(7	I)	A	1	F	3	(7	I)
Cap. (uF)	Size	RC														
4700	22x25	1.88							22x30	2.42	25x25	2.44				
5600	22x30	2.25							22x35	2.89	25x30	2.89	30x25	2.89		
6800	22x30	2.60	25x25	2.60					22x40	3.24	25x35	3.24	30x30	3.43	35x25	3.24
8200	22x35	3.14	25x30	3.14	30x25	3.14			22x50	3.57	25x40	3.57	30x30	3.57	35x25	3.57
10000	22x40	3.50	25x35	3.50	30x30	3.50	35x25	3.50	25x45	3.96	30x35	3.96	35x25	3.75	35x30	4.00
12000	22x45	4.02	25x40	4.02	30x30	4.02	35x25	4.02	25x50	4.21	30x40	4.21	35x30	4.21		
15000	25x45	4.58	30x35	4.58	35x30	4.58			30x45	4.69	35x35	4.69				
18000	25x50	4.82	30x40	4.82	35x35	4.82			35x40	5.07						
22000	30x45	5.12	35x35	5.12					35x50	5.50	35x45	4.95				
27000	35x40	5.30	35x45	5.47												
33000	35x50	6.09														

W.V.				5	60							6	53			
Dimension	A	1	H	3	(C	I)	A	1	H	3	(C	Γ)
Cap. (uF)	Size	RC														
2200	22x30	1.65	25x25	1.65	30x25	1.65			22x35	1.65	25x30	1.65	30x25	1.65		
2700	22x35	1.97	25x30	1.98					22x40	2.07	25x35	2.07	30x25	2.07		
3300	22x35	2.24	25x30	2.24	30x25	2.24			22x45	2.46	25x35	2.40	30x30	2.48	35x25	2.48
3900	22x40	2.54	25x35	2.54	30x25	2.49	30x30	2.66	25x40	2.92	30x35	3.05	35x25	3.05		
4700	22x45	2.95	25x40	3.01	30x30	2.95	35x25	2.95	25x50	3.43	30x40	3.43	35x30	3.43		
5600	22x50	3.10	25x45	3.15	30x35	3.14	35x30	3.20	30x40	3.86	35x35	3.86				
6800	25x50	3.35	30x40	3.26	35x30	3.26	25x45	3.23	30x50	4.64	35x40	4.64				
8200	30x45	3.58	35x35	3.58					35x45	5.05						
10000	30x50	4.11	35x40	4.11					35x50	5.75						
12000	35x45	4.62														
15000	35x50	5.05														





Standard Products Table

W.V.	Size RC Size RC Size RC											1	00			
Dimension	A	1	I	3	(C	I)	A	1	I	3	(7	I)
Cap. (uF)	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC
470	22x25	0.63							22x25	0.79						
560	22x25	0.70	22x30	0.75					22x30	0.97	25x25	0.97				
680	22x25	0.81	22x30	0.87	25x25	0.86			22x30	1.02	25x25	1.02				
820	22x30	1.02	25x25	1.02					22x30	1.26	25x25	1.26				
1000	22x35	1.16	25x30	1.16	30x25	1.16			22x35	1.38	25x25	1.38				
1200	22x35	1.46	25x30	1.46	30x25	1.46			22x40	1.65	25x35	1.65	30x30	1.65		
1500	22x40	1.74	25x35	1.74	30x25	1.74			22x45	1.83	25x40	1.83	30x30	1.83	35x25	1.83
1800	22x45	1.95	25x40	1.95	30x30	1.95	35x25	1.95	25x40	2.52	30x35	2.52	35x30	2.52		
2200	22x50	2.25	25x45	2.31	30x35	2.31	35x25	2.25	25x50	3.03	30x40	3.03	35x30	3.03		
2700	25x50	2.70	30x40	2.70	35x30	2.70	35x35	2.85	30x45	4.10	35x35	4.10				
3300	25x50	3.30	30x40	3.30	35x35	3.30			30x50	4.59	35x40	4.59				
3900	30x50	3.90	35x40	3.90					35x45	4.98						
4700	30x50	4.29	35x40	4.29					35x50	5.43						
5600	30x50	5.10	35x45	5.10												
6800	35x50	5.66												•		

W.V.				10	60							20	00			
Dimension	A	\	E	3	(C	I)	A	\	I	3	(C	I)
Cap. (uF)	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC
220	22x25	0.42							22x25	0.92						
270	22x25	0.74							22x30	1.03	25x25	1.03				
330	22x30	0.98	25x25	0.98					22x35	1.21	25x30	1.21	30x25	1.21		
390	22x35	1.15	25x30	1.10	30x25	1.10			22x40	1.41	25x35	1.43	30x30	1.45		
470	22x35	1.21	25x30	1.21	30x25	1.21			22x40	1.62	25x30	1.62	35x25	1.65		
560	22x40	1.40	25x35	1.40	30x30	1.40	35x25	1.40	22x45	1.81	25x40	1.85	30x30	1.85	35x25	1.85
680	22x45	1.64	25x40	1.67	30x35	1.75	35x30	1.80	22x50	2.04	25x40	2.07	30x30	2.04		
820	25x45	1.85	30x35	1.85	35x30	1.85			22x55	2.12	25x50	2.17	30x35	2.17	35x30	2.17
1000	25x45	2.15	30x40	2.15	35x30	2.15			30x45	2.75	35x40	2.75				
1200	25x55	2.46	30x45	2.46	35x35	2.46			30x50	3.00	35x40	3.00				
1500	30x50	2.80	35x40	2.80					35x50	3.46						
1800	30x50	3.13	35x40	3.13					35x50	4.01						
2200	35x50	3.39							35x60	4.39						

W.V.	250 A B C											3	50			
Dimension	A	1	F	3	(I)	A	1	F	3		7	D	,
Cap. (uF)	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC
100	22x30	0.44	25x25	0.44					22x30	0.69	25x30	0.69				
150	22x30	0.60	25x25	0.60					22x40	0.82	25x35	0.82				
180	22x30	0.69	25x25	0.69					25x30	0.82	30x25	0.82				
220	22x30	1.00	25x25	1.00					22x50	1.00	25x40	1.00	30X30	1.00	35X25	1.00
270	22x40	1.15	25x30	1.15	30x25	1.01			25x45	1.17	30x35	1.17	35x25	1.12		
330	22x40	1.28	25x30	1.28	30x25	1.05			30x40	1.35	35x35	1.35	25x50	1.20		
390	22x45	1.48	25x35	1.48	30x30	1.48	35x25	1.11	30x45	1.40						
470	22x50	1.76	25x40	1.76	30x30	1.76	35x25	1.17	35x40	1.70						
560	25x50	1.93	30x40	1.93	35x30	1.93			35x40	1.69						
680	25x50	2.22	30x40	2.22	35x35	2.22										
820	30x50	2.48	35x40	2.48												
1000	35x45	2.80														
1200	35x50	3.17										•		•		
1500	35x50	3.18		·												_



Standard Products Table

W.V.	400						450									
Dimension	A		В		C		D		A		В		C		D	
Cap. (uF)	Size	RC														
47	22x25	0.56							22x25	0.35						
56	22x25	0.63							22x30	0.41	25x25	0.41				
68	22x25	0.72							22x30	0.43	25x25	0.43				
82	22x30	0.77	25x30	0.82	30x25	0.85			22x35	0.45	25x25	0.45	30x25	0.45		
100	22x35	0.82	25x25	0.61	25x30	0.82	30x25	0.82	22x40	0.74	25x25	0.62	25x30	0.74		
120	22x35	0.90	25x30	0.90	30x25	0.90			22x45	0.82	25x35	0.82	30x30	0.82		
150	22x40	0.98	25x30	0.95	25x40	0.98	35x25	0.95	22x50	0.96	25x40	0.96	30x35	0.96	35x25	0.96
180	22x45	1.14	25x40	1.14	30x35	1.14	35x30	1.14	25x45	1.14	30x35	1.14	35x30	1.14		
220	22x50	1.21	25x45	1.21	30x35	1.21	35x30	1.21	25x45	1.20	30x35	1.20	30x40	1.24	35x35	1.24
270	25x50	1.40	30x45	1.40	35x35	1.40			25x50	1.21	30x50	1.48	35x40	1.48		
330	30x50	1.57	35x40	1.57					30x50	1.64	35x45	1.64	35x30	1.27		
390	30x50	1.71	35x40	1.71					30x50	1.64	35x50	1.86				
470	30x50	1.98	35x45	1.98	35x40	1.78			35x50	1.70	35x40	1.71				
560	35x50	2.23	35x40	1.86					35x45	1.96	40x40	2.02				
680	35x50	2.25	40x40	2.22					35x55	2.35	40x45	2.33				
820	35x55	2.58	40x50	2.67					40x50	2.68						
1000	35x65	2.90	40x55	2.92					40x60	3.03						
1200	35x75	3.39	40x60	3.31					40x70	3.54						

Unit: (mm) Ripple Current (A, rms) at 105°C 120Hz

Part Numbering Designation

EHP	<u>101</u>	<u>M</u>	<u>2G</u>	<u>B</u>	<u>A</u>	
SERIES	CAPACITANCE	TOL.	W.V.	PACKAGE	SIZE	
	IN 3DIGITS	$M=\pm 20\%$	16= 16V	B= Bulk	A= A Size	
	101 = 100 uF	$K=\pm 10\%$	25 = 25V		B= B Size	
	102= 1000uF		35 = 35V		C= C Size	
	103= 10,000uF		50= 50V		D=D Size	
			63= 63V			
			80= 80V			
			2A = 100V			
			2C = 160V			
			2D = 200V			
			2E = 250V			
			2V = 350V			
			2G = 400V			
			2W = 450V			