

Data Sheet

Customer: _____

Product: Aluminum Electrolytic Capacitors – EHS Series

Size : 22x20mm ~ 35x60mm

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Record of change

Date	Ver.	Description	Page
5-May-2016	1		

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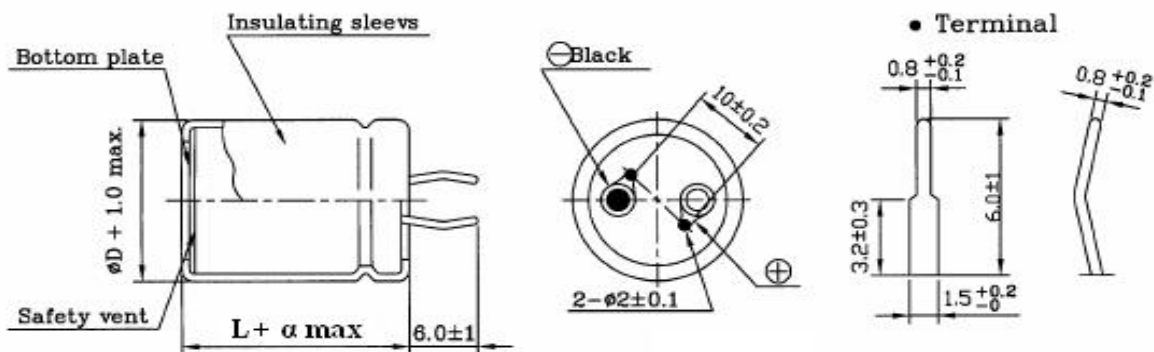
Prepared by	Checked by	Approved by	Accepted by (customer)
5-May-2016	5-May-2016	5-May-2016	
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- 105°C 3000 hours assured load life. Miniaturized size.
- Directly mountable on printed circuit board without holders.
- RoHs compliant
- Aluminum case designed explosion-proof vent.

Characteristics

Voltage Range	160 ~ 450V			
Capacitance Range	82 ~ 2700uF			
Temperature Range	-25 ~ +105°C			
Capacitance Tolerance	±20% at 120Hz, 20°C (10% Tol. is available upon request)			
Leakage Current	$I = 3\sqrt{CV}$ (uA) max C: Capacitance, V:W.V. (After 5 minutes)			
Dissipation Factor (tanδ) max (at 20°C, 120Hz)	uF \\ W.V.	160~250	350~450	
	33 ~ 390	0.15	0.20	
	470 ~2200	0.15	0.20	
Stability at Low Temperature	Impedance ration at 120Hz between the -25°C or -40°C value and 20°C value shall not exceed :			
	Rated Voltage (V)	160	200~250	350~450
	Z-25°C/Z 20°C	4	4	8
Load Life	The following specifications shall satisfied when the capacitors are restored to 20°C after rated working voltage applied for 3,000 hours at max. operating temperature with the rated ripple current.			
	Capacitance change	≤±20% of the initial value.		
	Dissipation factor	≤±200% of the initial specified value		
	Leakage current	≤The initial specified value.		
Shelf Life	After storage for 1000 hours at 105°C with no voltage applied, the capacitor shall meet the specified limit in load life. Pre-treatment for measurement shall be conducted after application of DC working voltage for 30 minutes.			

Diagram of dimensions



Multiplier for Ripple Current vs Frequency

Frequency (Hz)	50/60	100/120	500	1K	≥10K
Multiplier	0.80	1.00	1.20	1.30	1.40

Dia	22 ~ 25	30 ~ 40
α	2	3

Standard Products Table

W.V.	160								200							
Dimension	A		B		C		D		A		B		C		D	
Cap. (uF)	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC
390									22x30	1.30	25x25	1.30				
470	22x30	1.40							22x35	1.40	25x30	1.40				
560	22x35	1.50							22x40	1.50	25x30	1.50	30x25	1.50		
680	22x40	1.70	25x30	1.70					22x45	1.70	25x35	1.70				
820	22x45	2.00	25x35	2.00					25x45	2.00	30x30	2.00	35x25	2.00		
1000	22x50	2.20	25x40	2.20	30x30	2.20	35x30	2.20	25x50	2.20	30x35	2.20	35x30	2.20		
1200	25x50	2.30	30x35	2.30	35x30	2.30			30x40	2.30	35x35	2.30				
1500	35x40	2.50							30x50	2.50	35x40	2.50				
1800	30x50	2.70	35x40	2.70					35x45	2.70						
2200	35x50	2.90							35x50	2.90						
2700	35x60	3.10														

W.V.	250								350							
Dimension	A		B		C		D		A		B		C		D	
Cap. (uF)	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC
100									22x25	0.52						
120									22x30	0.62	25x25	0.65				
150									22x35	0.74						
180	22x25	0.90							22x40	0.81	25x30	0.77	30x25	0.80		
220	22x30	1.00							22x45	0.94	25x35	0.91				
270	22x35	1.10							22x50	1.09	25x40	1.06	30x30	1.05	35x25	1.08
330	22x40	1.20	25x30	1.20					25x45	1.24	30x35	1.24	35x30	1.33		
390	22x45	1.30	30x25	1.30					30x40	1.42	35x30	1.39				
470	22x50	1.40	25x40	1.40	30x30	1.40			30x45	1.56	35x35	1.53				
560	25x45	1.50	35x25	1.50					30x50	1.78	35x40	1.77				
680	25x50	1.70	30x40	1.70	35x30	1.70			30x60	1.94	35x50	1.95				
820	30x45	2.00	35x35	2.00					35x55	2.23						
1000	30x50	2.20	35x40	2.20												
1200	35x45	2.30														
1500	35x50	2.50														

W.V.	385								400							
Dimension	A		B		C		D		A		B		C		D	
Cap. (uF)	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC
82	22x30	0.64							22x30	0.56	25x25	0.56				
100	22x30	0.69	25x25	0.69					22x35	0.64	25x30	0.64				
120	22x35	0.75	25x30	0.75					22x40	0.72	25x35	0.72	30x25	0.72		
150	22x40	0.82	25x30	0.82	30x25	0.82			22x50	0.79	25x40	0.79	30x30	0.79	35x25	0.79
180	22x45	0.95	25x35	0.95	30x30	0.95			25x45	0.87	30x35	0.87				
220	25x45	1.10	30x30	1.10	35x25	1.10			25x50	1.00	30x40	1.00	35x30	1.00		
270	25x50	1.20	35x30	1.20					30x45	1.19	35x35	1.19				
330	30x45	1.35	35x35	1.35					30x50	1.38	35x40	1.38				
390	30x50	1.55							35x45	1.55						
470	35x45	1.75							35x50	1.74						
560	35x50	1.80							30x60	2.03	35x45	2.23				
680	35x55	2.03							35x55	2.31						
820	35x60	2.31							35x60	2.54						

Standard Products Table

W.V.	420								450							
Dimension	A		B		C		D		A		B		C		D	
Cap. (uF)	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC
82	22x25	0.53							22x30	0.56	25x25	0.56				
100	22x30	0.64	25x25	0.64					22x35	0.64	25x30	0.64				
120	22x35	0.72	25x30	0.72					22x40	0.72	25x35	0.72	30x25	0.72		
150	22x40	0.79	25x30	0.79	30x25	0.79			22x50	0.79	25x40	0.79	30x30	0.79	35x25	0.79
180	22x45	0.87	25x40	0.87	30x30	0.87			25x45	0.87	30x35	0.87				
220	25x45	1.00	30x30	1.00	35x25	1.00			25x50	1.00	30x40	1.00	35x30	1.00		
270	25x50	1.19	30x40	1.19	35x30	1.19			30x45	1.19	35x35	1.19				
330	30x45	1.38	35x35	1.38					30x50	1.38	35x40	1.38				
390	30x50	1.55	35x40	1.55					35x45	1.55						
470	30x60	1.74	35x45	1.74					35x50	1.74						
560	35x50	1.90							35x50	2.02						
680	35x60	2.31														

Unit : (mm)

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

Part Numbering Designation

<u>EHS</u>	<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= ± 20%	2C= 160V	B= Bulk	A= A Size
	470= 47uF	K= ± 10%	2D= 200V		B= B Size
	101= 100uF		2E= 250V		C= C Size
	102= 1000uF		2V= 350V		D=D Size
			2T= 385V		
			2P= 420V		
			2G= 400V		
			2W= 450V		