

Data Sheet

Customer: _____

Product: Aluminum Electrolytic Capacitors – EGB Series _____

Size : 8x12mm ~ 18x50mm _____

Issued Date: 25-Oct.-2023 _____

Edition: Ver. 1 _____

Record of change

Date	Ver.	Description	Page
25-Oct.-2023	1		

HITANO ENTERPRISE CORP.

7F-7, No. 3, Wu Chuan 1st Road, New Taipei Industrial Park,

New Taipei City, TAIWAN, R.O.C.

Tel: +886 2 2299 1331 (Rep.)

Fax: +886 2 2298 2466, 2298 2969

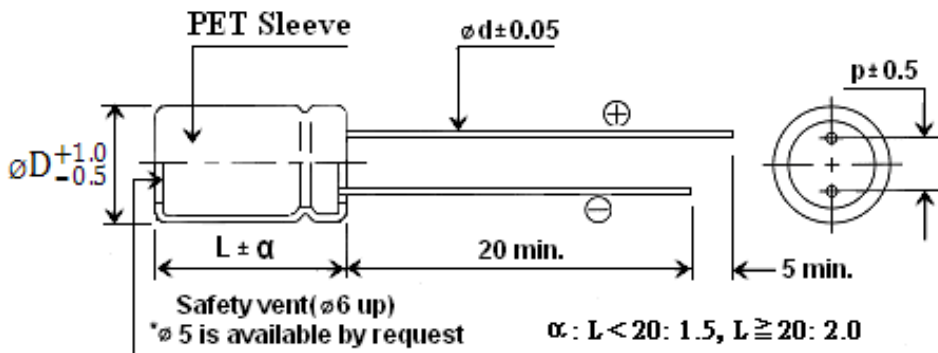
Prepared by	Checked by	Approved by	Accepted by (customer)
25-Oct.-2023	25-Oct.-2023	25-Oct.-2023	
<i>Andy Hsu</i>	<i>Hwa Wu</i>	<i>Hwa Wu</i>	

- High Temperature Long life
- Load life 4000 hrs at 130°C
- Applicable to LED drivers, electronic ballast
- Sleeve Color : Silver Print in Brown Sleeve

Characteristics

Voltage Range	160 to 450 VDC						
Capacitance Range	1 to 220uF						
Temperature Range	-40 to +130°C						
Leakage Current	I ≤ 0.01CV or 3uA, whichever is greater 1 minutes after Rated Voltage applied						
Capacitance Tolerance	±20% at 120Hz , 20°C						
Dissipation Factor	Working Voltage (V)	160	200	250	350	400	450
	tanδ(%) max	15	15	15	20	20	20
Low Temperature Characteristic (120Hz)	Working Voltage (V)	160	200	250	350	400	450
	Z-25°C/Z +20°C	3	3	3	5	5	6
	Z-40°C/Z +20°C	6	6	6	6	6	9
Load life : (+130°C, 4000h)	Test conditions Ambient temperature : +130°C After test requirement at +20°C Capacitance change : ≤ ±30% of the initial measured value value Dissipation factor : ≤ 300% of the initial specified value value Leakage current : ≤ The initial specified value						
	Shelf life (at 105°C) Test conditions Duration time : 1000Hrs Ambient temperature : +105°C Applied voltage : None After test requirement at +20°C: Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.						

Drawing



Dφ	5	6.3	8	10	13	16	18	20	22
p	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10	10
dφ	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.8	0.8

Ripple Current Coefficients

Frequency(Hz)	120	1K	10K	≥ 100K
160V-450V	0.5	0.8	0.9	1.0

Temperature Coefficieng

Temp.(°C)	60	70	85	105	130
Factor	2.4	2.1	1.78	1.65	1

Dimensions, Maximum Permissible Ripple Current & Impedance

	160		200		250		350		400		450	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1							8x12	39	8x12	43		
1.5							8x16	58	8x16	58	8x16	56
1.8							8x16	60	8x16	60	8x16	59
2.2					8x12	51	10x10	60	10x10	61	10x16	62
2.8			8x12	51	8x12	58	10x16	76	10x16	80	10x16	64
3.3	8x12	56	8x12	58	8x12	64	10x16	80	10x16	84	10x20	70
4.7	8x12	62	8x16	101	8x16	106	10x20	114	10x20	114	13x21	83
5.6	8x16	66	8x16	118	10x10	96	10x20	122	13x21	132	13x21	115
6.8	8x16	70	8x16	128	10x16	135	10x20	152	13x21	180	13x21	140
8.2	10x9	116	10x10	132	10x10	132	13x21	164	13x21	184	13x21	146
10	10x9	152	10x10	172	10x16	190	13x21	200	13x25	224	13x21	180
15	10x16	240	10x20	262	10x20	262	13x25	268	13x25	268	13x25	235
22	10x20	320	13x21	344	13x21	344	16x25	360	16x25	384	16x25	316
33	13x21	384	13x21	400	13x25	424	16x30	428	18x30	508	18x30	400
47	13x25	472	13x25	520	16x25	552	18x30	560	18x35	600	18x35	492
68	16x25	600	16x25	600	16x30	624	18x40	720	18x40	720	18x40	568
82	16x25	660	16x30	720	18x25	720						
100	16x25	768	16x30	880	18x30	776			10x50	824	18x50	672
150	18x30	840	16x35	1080								
220	18x25	1200										

Ripple Current (mA, rms) at 130°C 100KHz

Part Numbering System

EGB	101	M	2E	A	-	T1
SERIES	CAPACITANCE	TOL.	W.V.	PACKAGE	SIZE	LEAD SPACE
	IN 3DIGITS	K= ± 10%	2C=160V	B= Bulk	Omit if only	Omit if Bulk
	010= 1.0uF	M= ± 20%	2D=200V	C5= Cut 5mm	one size	T1= L/S 2.5mm Taped
	4R7= 4.7 uF		2E=250V	A= Ammo Pack	A=Smaller	TA= Lead forming space
	101= 100uF		2V=350V	R= Tape&Reel	size	5mm Taped
	331=330uF		2G=400V			T35= L/S 3.5mm Taped
			2W=450V	F5= Lead formed & cut 5mm		T2=L/S 5mm Taped