

Data Sheet

Customer: _____

Product: Aluminum Electrolytic Capacitors – EFK Series _____

Size : 8x11.5mm ~ 18x41mm _____

Issued Date: 15-Aug.-2016 _____

Edition: Ver. 1 _____

Record of change

Date	Ver.	Description	Page
15-Aug-2016	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

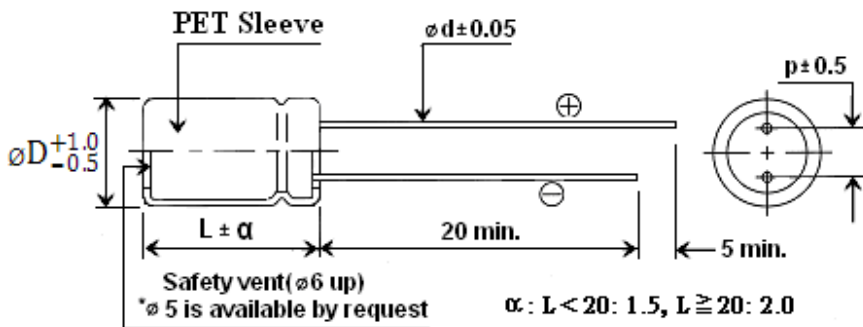
Prepared by	Checked by	Approved by	Accepted by (customer)
15-Aug-2016	15-Aug-2016	15-Aug-2016	
<i>Andy Hsu</i>	<i>Hwa Wu</i>	<i>Hwa Wu</i>	

- EFK series capacitors are suitable for electronic ballast and energy saving lamp..
- Load life 105°C, 6000 ~ 8000 hours assured.

Characteristics

Voltage Range	160 ~450V												
Temperature Range	-40 ~ + 105°C												
Capacitance Range	1 to 330 uF												
Leakage Current	I ≤ 0.04CV+100uA, After 1 minute with rated working voltage applied.												
Capacitance Tolerance	±20% at 120Hz, 20°C(10% Tol. is available upon request)												
Dissipation Factor	W.V.	160	200	250	350	400	450						
	tanδ	0.10	0.10	0.10	0.12	0.12	0.12						
Low Temperature Characteristics (120Hz)	W.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	-						
Load life	Test condition Duration time :As right Ambient temperature :+105°C Applied voltage :Rated DC working voltage After test requirement at +20°C Capacitance change: ≤±20% of the initial measured value Dissipation factor: ≤200% of the initial specified value Leakage current : ≤The initial specified value						<table border="1"> <tr> <th>φ (mm)</th> <th>Life(hrs)</th> </tr> <tr> <td>8</td> <td>6000</td> </tr> <tr> <td>≥ 10</td> <td>8000</td> </tr> </table> For standard size	φ (mm)	Life(hrs)	8	6000	≥ 10	8000
	φ (mm)	Life(hrs)											
8	6000												
≥ 10	8000												
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
p	2.0	2.5	3.5	5.0	5.0	7.5	7.5
dφ	0.5	0.5	0.5	0.6	0.6	0.8	0.8

Ripple Current Coefficients

Frequency(Hz)	120	1K	10K	≥100K
Multiplier	1.0	1.5	1.7	1.9

Multiplier for R.C. vs Temperature

Temp.(°C)	45	60	70	85	95	105
Multiplier.	2.10	1.90	1.65	1.40	1.25	1.00

Dimensions, Maximum Permissible Ripple Current & Impedance

WV Cap(μF)	160		200		250		350		400		450	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1.0							8X11.5	75	8X11.5	65	8X11.5	85
2.2					8X11.5	70	8X11.5	80	8X11.5	85	10X12.5	90
3.3					8X11.5	75	10X12.5	85	10X12.5	95	10X16	105
4.7			8X11.5	80	10X12.5	100	10X12.5	100	10X16	110	10X16	115
6.8			8X11.5	100	10X12.5	105	10X16	110	10X16	115	10X20	125
10	10X12.5	105	10X12.5	115	10X16	130	10X20	140	10X20	160	13X20	175
22	10X16	170	10X16	170	10X20	190	13X20	245	13X20	230	16X21	275
33	10X20	235	10X20	245	13X20	305	13X25	340	13X25	310	16X25	370
47	13X20	285	13X20	370	13X25	370	16X25	410	16X31.5	445	18X25	455
68	13X20	445	13X25	425	16X25	495	18X25	530	18X31.5	550	18X31.5	600
100	16X21	550	16X25	600	16X31.5	645	18X35.5	665	18X41	750		
150	16X25	655	16X31.5	825	18X31.5	775						
220	18X31.5	875	18X31.5	1000								
330	18X35.5	1190										

Part Numbering System

EFK SERIES	101 CAPACITANCE	M TOL.	2G W.V.	A PACKAGE	- SIZE	T1 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