

Data Sheet

Customer: _____

Product: Aluminum Electrolytic Capacitors – AEFL Series

Load life 8000~10,000 hrs at 105°C AEC-Q200 version available

Size : 8x11.5mm ~ 18x45mm

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Edition: Ver. 1

Record of change

Date	Ver.	Description	Page
16-Oct-2023	1		

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16-Oct-2023	16-Oct-2023	16-Oct-2023	
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- EFL series capacitors are suitable for electronic ballast and energy saving lamp..
- Load life 105°C, 8000 ~ 10000 hours assured.
- AEC-Q200 version available

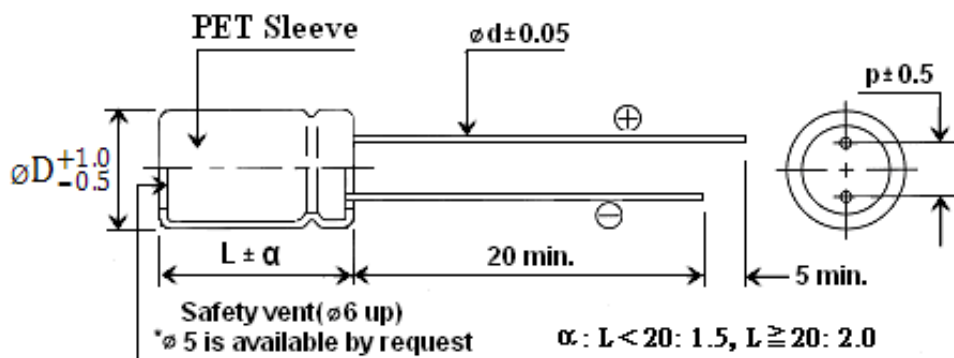
Characteristics

Voltage Range	160 ~450V						
Temperature Range	-40 ~ + 105°C						
Capacitance Range	0.1 to 330 uF						
Leakage Current	$I \leq 0.04CV + 100\mu A$, whichever is greater (After 1 minutes)						
Capacitance Tolerance	$\pm 20\%$ 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	8
Load life	Test condition						
	Duration time :As right						
	Ambient temperature :+105°C						
	Applied voltage :Rated DC working voltage						
	After test requirement at +20°C						
Shelf life (at 105°C)	Capacitance change: $\leq \pm 20\%$ of the initial measured value						
	Dissipation factor: $\leq 200\%$ of the initial specified value						
	Leakage current : $\leq$ The initial specified value						
	Test conditions						
Shelf life (at 105°C)	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.						

φ (mm)	Life(hrs)
8	8000
≥ 10	10000

For standard size

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	0.50	0.80	0.85	1.0

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	80	10X12.5	85	10X12.5	90
2.2							10X12.5	85	10X12.5	90	10X12.5	95
3.3					8X11.5	80	10X12.5	90	10X16	100	10X16	110
4.7					10X12.5	105	10X16	105	10X20	115	10X20	125
6.8			10X12.5	105	10X12.5	110	10X16	115	10X20	125	10X20	135
10	10X16	125	10X16	125	10X16	140	10X20	150	13X20	170	13X20	185
22	10X20	200	10X20	200	13X20	200	13X20	260	13X25	270	16X21	290
33	10X20	250	13X20	260	13X20	320	13X25	360	16X25	370	16X25	390
47	13X20	300	13X20	390	13X25	390	16X25	430	16X31.5	470	18X31.5	480
68	13X20	470	16X21	470	16X25	520	18X25	560	18X31.5	580	18X41	630
100	16X21	580	16X25	630	16X31.5	680	18X35.5	700	18X41 18x31.5	790	18X45	850
150	16X25	690	18X25	840	18X35.5	860	18X45	960				
220	18X31.5	980	18X35.5	1050	18X45	1130						
330	18X41	1250	18X40	1610	18X45	930						